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MOQUETTES
PAVIMENTI
RIVESTIMENTI
TESSUTI

**modu
lyss®**

Product catalogue

CONTENT

00 ALPHA PAGE 2	01 FIRST PAGE 6	03 MILLENNIUM NXTGEN PAGE 10	04 ON-LINE 1 PAGE 14	05 ON-LINE 2 PAGE 18	06 STEP PAGE 22	09 BLACK& PAGE 26	10 FIRST RADIANT PAGE 30
12 LINE-UP PAGE 34	13 TXTURE PAGE 38	13 MXTURE PAGE 42	14 CAMBRIDGE PAGE 46	15 PERPETUAL PAGE 50	16 SHINE-UP PAGE 54	18 NORMAL NEW NORMAL PAGE 58	19 FIRST LINES PAGE 62
20 IN-GROOVE PAGE 66	21 XTRA PAGE 70	23 FIRST ABSOLUTE PAGE 74	29 ALTERNATIVE100 PAGE 78	30 FIRST STRIPES PAGE 82	31 FIRST WAVES PAGE 86	32 FIRST BLOCKS PAGE 90	33 NEW SHAPES PAGE 94
34 MOTION /// VISION PAGE 98	35 PURE AIR100 PAGE 102	36 DSGN CLOUD PAGE 106	37 DSGN TWEED PAGE 110	38 DSGN TRACK PAGE 114	39 OPPOSITE PAGE 118	40 OPPOSITE LINES PAGE 122	41 PIXEL PAGE 126
42 PATCHWORK PAGE 130	43 PATTERN PAGE 134	44 MOSS PAGE 138	45 LEAF PAGE 142	46 WILLOW PAGE 146	47 GRIND PAGE 150	48 FASHION& PAGE 154	49 VELVET& PAGE 158
50 BLAZE PAGE 162	51 DUSK PAGE 166	51 DAWN PAGE 170	52 GLEAM PAGE 174	53 SPARK PAGE 178			



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ALPHA



LRV 3 L 19 553



LRV 4 L 24 552



LRV 7 L 31 332



LRV 19 L 50 215



LRV 14 L 43 823



LRV 10 L 39 942



LRV 5 L 27 989



LRV 4 L 25 592



LRV 5 L 26 543



LRV 5 L 27 340



LRV 13 L 42 606



LRV 12 L 41 847




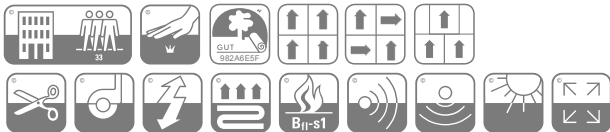
LRV 12 L 41 983



LRV 3 L 21 991

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 300 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 500 g/m²	THERMAL RESISTANCE	ISO 8302 0.067 m² K/W
PILE ABOVE BACKING	Ca. 302 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 30 dB (1 000 Hz) ΔL _w : 22 dB
TOTAL HEIGHT	Ca. 5.8 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.040.030.070.150.290.32
PILE HEIGHT	Ca. 2.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.116 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 10³ Ohm
TUFT DENSITY	Ca. 171 600 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	14
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.20%
DONNÉES ENVIRONNEMENTALES	Démarche HQE®: cf. FDES suivant NF P01-010 Déclaration du 30/07/2003		
UPEC CLASSIFICATION CERTIFICATE N° NF-UPEC	U ₃ P ₃ E ₁ C ₀ 329T-009.1		
			
GUT-NR	982A6E5F	BRE	ENP 428
LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.		



Sustainable datasheet

1. RECYCLED CONTENT

- a. 53% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO- 9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b)
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 982A6E5F. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150181-CBC2-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 22 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ae, A-rating – Eco point score 0.284.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 53%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 22 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

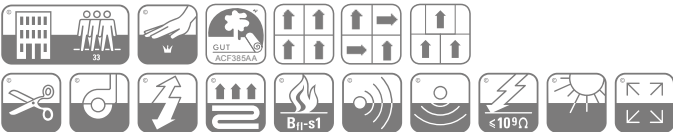
01

FIRST

		 LRV 11 L 39907	 LRV 23 L 55914	 LRV 14 L 45961	 LRV 4 L 24990
 LRV 8 L 34823	 LRV 7 L 31830	 LRV 9 L 34966	 LRV 7 L 32569	 LRV 7 L 32504	 LRV 3 L 20553
 LRV 11 L 40817	 LRV 8 L 35876	 LRV 7 L 31807	 LRV 15 L 44213	 LRV 10 L 37616	 LRV 6 L 27684
 LRV 25 L 57102	 LRV 19 L 50140	 LRV 11 L 39601	 LRV 13 L 42313	 LRV 6 L 29129	 LRV 4 L 25316

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 300 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 540 g/m²	THERMAL RESISTANCE	ISO 8302 0.047 m² K/W
PILE ABOVE BACKING	Ca. 330 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 37 dB (1 000 Hz) ΔL _w : 25 dB
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz125250500100020004000 α _s 0.010.040.070.190.290.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.114 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10³ Ohm
TUFT DENSITY	Ca. 156 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	22
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.20%
DONNÉES ENVIRONNEMENTALES	Démarche HQE®: cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	ACF385AA
UPEC CLASSIFICATION	U ₃ P ₃ E ₁ C ₀ 329T-006.1	BRE	ENP 428
CERTIFICATE N° NF-UPEC		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 50% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed Nylon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO- 9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b)
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number ACF385AA. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150181-CBC2-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 25 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 i, A-rating – Eco point score 0.295.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 50%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 25 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



INNOVATE
MIND
EVOLVE
TEAM

03

MILLENNIUM NXTGEN



LRV 5 L 24

310



LRV 13 L 42

907



LRV 3 L 18

550



LRV 10 L 38

626



LRV 12 L 41

669



LRV 6 L 27

411



LRV 7 L 31

883



LRV 4 L 21

965



LRV 19 L 50

915



LRV 11 L 39

505



LRV 8 L 34

695



LRV 17 L 48

210



LRV 4 L 23

482



LRV 18 L 49

817



LRV 6 L 27

993



LRV 15 L 45

942



LRV 9 L 35

555



LRV 5 L 26

684



LRV 28 L 60

200



LRV 5 L 25

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LRV 13 L 43

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LRV 8 L 33

918



LRV 21 L 53

957



LRV 5 L 26

573



LRV 7 L 30

511



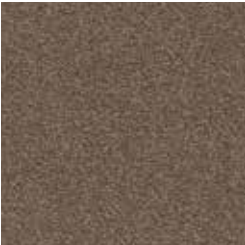
LRV 18 L 49

322



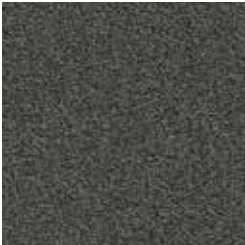
LRV 8 L 34

125



LRV 15 L 46

140



LRV 11 L 40

989



LRV 9 L 35

579



LRV 5 L 24

524



LRV 16 L 47

900



LRV 6 L 28

355



LRV 8 L 34

323



LRV 23 L 55

061

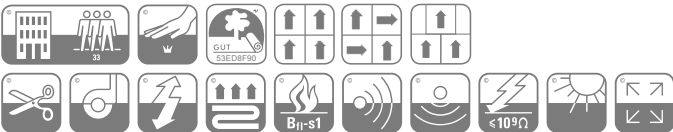


LRV 25 L 57

102

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 400 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 600 g/m²	THERMAL RESISTANCE	ISO 8302 0.066 m² K/W
PILE ABOVE BACKING	Ca. 395 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL _w : 25 dB
TOTAL HEIGHT	Ca. 6.3 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.000.000.060.140.310.39
PILE HEIGHT	Ca. 3.2 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.123 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10³ Ohm
TUFT DENSITY	Ca. 160 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	36
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.20%
DONNÉES ENVIRONNEMENTALES	Démarche HQE®: cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	53ED8F90 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.
UPEC CLASSIFICATION CERTIFICATE N° NF-UPEC	U ₃ P ₃ E ₁ C ₀ 329T-006.1		



Sustainable datasheet

1. RECYCLED CONTENT

- a. 64% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon. ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b)
- b. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 53ED8F90. These criteria include VOC thresholds, odour and chemical substances.
- c. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- d. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- e. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150329-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 25 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Millennium Nxtgen but please note that a similar product has obtained an Ecopoint score of 0.26 and is A⁺-rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 57%.
MR4 Post-Consumer recycled content: 7%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 25 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

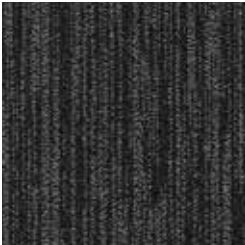
9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.



04

ON-LINE 1



LRV 8 L 34 032



LRV 8 L 34 204



LRV 8 L 33 617



LRV 3 L 20 609



LRV 4 L 24 684



LRV 5 L 21 990



LRV 5 L 28 322



LRV 4 L 24 316



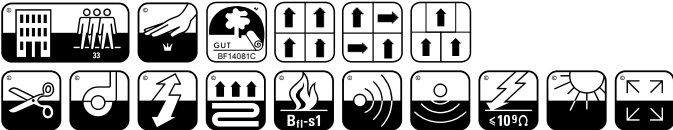
LRV 4 L 22 438



LRV 5 L 26 504

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 530 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 700 g/m²	THERMAL RESISTANCE	ISO 8302 0.036 m² K/W
PILE ABOVE BACKING	Ca. 380 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 35 dB (1 000 Hz) ΔL _w : 23 dB
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.010.030.040.140.250.32
PILE HEIGHT	Ca. 2.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.146 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10³ Ohm
TUFT DENSITY	Ca. 146 500 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	10, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	BF14081C
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 51% Overall recycled content.
- b. **Yarn**
100% PA 6.6 Antron®.
- c. **Primary Backing**
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- e. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-603.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number BF14081C. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product.
The EPD-declaration-number is EPD-MOD-20170098-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 23 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).
MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 t, A-rating – Eco point score 0.353.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.
WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 49%.
MR4 Post-Consumer recycled content: 2%.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental - Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 23 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



05

ON-LINE 2

19



LRV 3 L 21 990



LRV 7 L 33 989



LRV 5 L 26 829



LRV 17 L 49 823



LRV 12 L 41 848



LRV 4 L 24 830



LRV 4 L 23 966



LRV 13 L 43 900



LRV 14 L 44 907



LRV 4 L 25 553



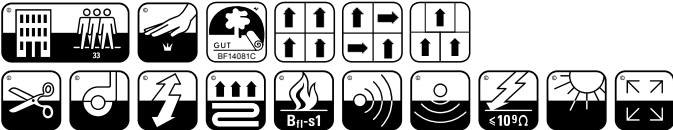
LRV 5 L 26 569



LRV 3 L 21 575

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{s1} -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 530 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 700 g/m²	THERMAL RESISTANCE	ISO 8302 0.036 m² K/W
PILE ABOVE BACKING	Ca. 380 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 35 dB (1 000 Hz) ΔL _w : 23 dB
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.010.030.040.140.250.32
PILE HEIGHT	Ca. 2.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.146 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 146 500 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	12, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	BF14081C
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 51% Overall recycled content.
- b. **Yarn**
100% PA 6.6 Antron®.
- c. **Primary Backing**
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- d. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- e. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
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- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

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In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

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Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

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- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-603.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
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- d. **REACH (EU)**
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- f. **M1 (FI)**
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To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
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MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 t, A-rating – Eco point score 0.353.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.
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To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

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MR credit: Building product disclosure and optimization - Environmental Product Declarations.
MR4 Post-Industrial recycled content: 49%.
MR4 Post-Consumer recycled content: 2%.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
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- d. **Acoustics**
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06

STEP



LRV 16 L 47 102



LRV 23 L 55 213



LRV 12 L 42 323



LRV 11 L 40 313



LRV 7 L 32 129



LRV 7 L 31 316



LRV 6 L 30 319



LRV 11 L 39 187



LRV 14 L 44 601



LRV 15 L 45 622



LRV 12 L 40 668



LRV 6 L 29 616



LRV 7 L 31 684



LRV 4 L 23 613



LRV 6 L 30 822



LRV 12 L 41 807



LRV 13 L 42 938



LRV 12 L 41 950



LRV 14 L 45 994



LRV 8 L 34 573



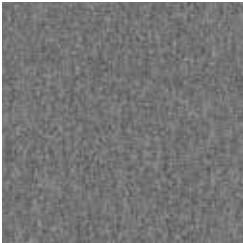
LRV 6 L 28 550



LRV 10 L 37 838



LRV 14 L 44 907



LRV 23 L 55 817



LRV 19 L 50 900



LRV 8 L 34 961



LRV 7 L 32 500



LRV 6 L 30 552



LRV 3 L 21 830



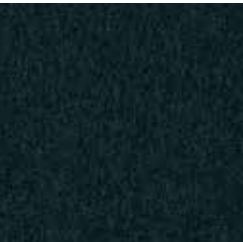
LRV 7 L 31 966



LRV 6 L 29 991



LRV 3 L 22 965



LRV 6 L 28 592



LRV 16 L 46 579

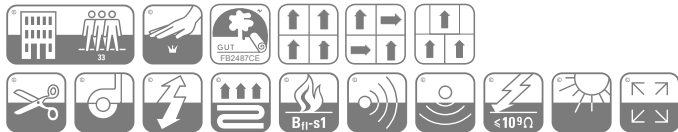


LRV 9 L 37 595

Go to page 71 for the XTRA STEP colour palette.

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{f1} -s1														
PILE MATERIAL	100% PA 6 Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5-6														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 300 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 530 g/m²	THERMAL RESISTANCE	ISO 8302 0.053 m² K/W														
PILE ABOVE BACKING	Ca. 335 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 33 dB (1 000 Hz) ΔL _w : 24 dB														
TOTAL HEIGHT	Ca. 6.0 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.01</td><td>0.03</td><td>0.06</td><td>0.23</td><td>0.30</td><td>0.35</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.01	0.03	0.06	0.23	0.30	0.35
Hz	125	250	500	1000	2000	4000											
α _s	0.01	0.03	0.06	0.23	0.30	0.35											
PILE HEIGHT	Ca. 2.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.120 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10³ Ohm														
TUFT DENSITY	Ca. 160 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	45, Special colours possible														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.20%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR BRE LEED®	FB2487CE ENP 428 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														
UPEC CLASSIFICATION CERTIFICATE N° NF-UPEC	U ₃ P ₃ E ₁ C ₀ 329T-005.1																



EN 14041

CE

14

NEL 0483

DOP: 0453 CPD 0022

modulyss®

Zeeuwsmerstestraat 21

9240 Zele, Belgium

www.modulyss.com

EN 1307

Textile Floor Covering

Bfl-s1

DL

PCP

NA

HCHO

DS

F512/02

M03/18

Sustainable datasheet

1. RECYCLED CONTENT

- a. 52% Overall recycled content.
- b. **Yarn**
100% PA 6 Aqualon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO- 9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b)
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number FB2487CE. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170095-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 24 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 y, A-rating – Eco point score 0.299.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 52%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 24 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



09

BLACK&



LRV 17 L 48 001



LRV 5 L 26 322



LRV 3 L 19 316



LRV 7 L 32 662



LRV 5 L 26 609



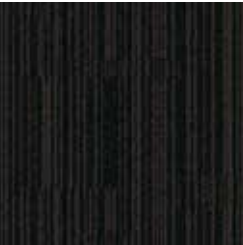
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LRV 3 L 21 832



LRV 5 L 26 148



LRV < 3 L < 20 950



LRV 4 L 25 504



LRV 4 L 22 432



LRV 5 L 27 930



LRV 3 L 21 822



LRV 8 L 34 102



LRV 4 L 23 991



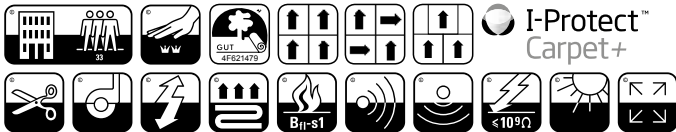
LRV < 3 L < 20 966



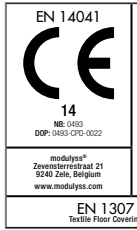
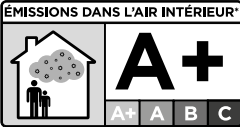
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Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	50% PA 6.6 Antron® + 50% PA 6.6 Antron® SDN	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 400 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 850 g/m²	THERMAL RESISTANCE	ISO 8302 0.055 m² K/W
PILE ABOVE BACKING	Ca. 422 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 37 dB (1 000 Hz) ΔL _w : 24 dB
TOTAL HEIGHT	Ca. 6.8 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.02 0.07 0.22 0.33 0.44
PILE HEIGHT	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.121 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm
TUFT DENSITY	Ca. 154 440 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	17, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	4F621479
		BRE	ENP 428
ANTISOIL TREATED	I-Protect®	LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



I-Protect™
Carpet+



F512/02
M02/17

Sustainable datasheet

1. RECYCLED CONTENT

- a. 46% Overall recycled content.
- b. **Yarn**
50% PA 6.6 Antron® + 50% PA 6.6 Antron® SDN.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

- This product fulfills the testing criteria for emissions of:
- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-603.
 - b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b).
 - c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 4F621479. These criteria include VOC thresholds, odour and chemical substances.
 - d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
 - e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
 - f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170098-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 24 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 c, A-rating – Eco point score 0.375.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 46%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 24 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



10

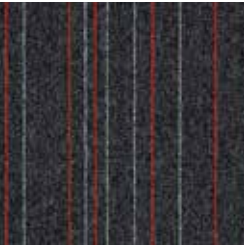
FIRST RADIANT



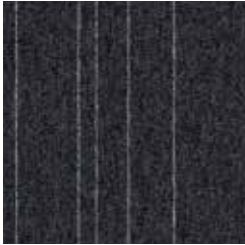
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LRV 3 L 21 504



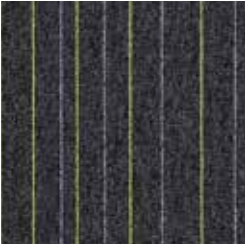
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LRV 3 L 21 410



LRV 4 L 23 609

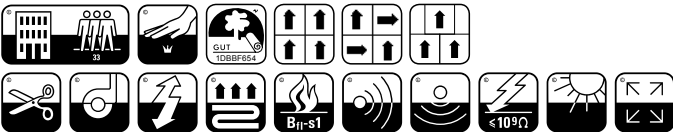


LRV 4 L 23 204

FIRST RADIANT

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 300 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 540 g/m²	THERMAL RESISTANCE	ISO 8302 0.047 m² K/W
PILE ABOVE BACKING	Ca. 330 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 37 dB (1 000 Hz) ΔL _w : 25 dB
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.04 0.07 0.19 0.29 0.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.114 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm
TUFT DENSITY	Ca. 156 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	7
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	1DBBF654
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 52% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed Aqualon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 1DBBF654. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150181-CBC2-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 25 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ai, A-rating – Eco point score 0.291.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 52%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 25 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

12

LINE-UP

35



LRV 7 L 31

562



LRV 6 L 29

995



LRV 7 L 33

956



LRV 11 L 39

981



LRV 12 L 41

139



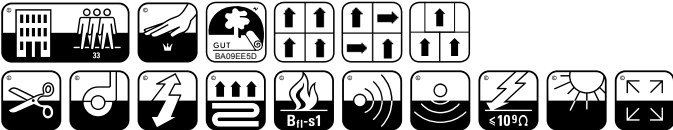
LRV 7 L 31

883

LINE-UP

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1														
PILE MATERIAL	PA 6 Solution Dyed + PA 6 Space Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 400 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 550 g/m²	THERMAL RESISTANCE	ISO 8302 0.039 m² K/W														
PILE ABOVE BACKING	Ca. 309 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 33 dB (1 000 Hz) ΔL _w : 22 dB														
TOTAL HEIGHT	Ca. 5.7 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.03</td><td>0.02</td><td>0.05</td><td>0.16</td><td>0.26</td><td>0.35</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.03	0.02	0.05	0.16	0.26	0.35
Hz	125	250	500	1000	2000	4000											
α _s	0.03	0.02	0.05	0.16	0.26	0.35											
PILE HEIGHT	Ca. 2.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.124 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm														
TUFT DENSITY	Ca. 156 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	BA09EE5D														
		BRE	ENP 428														
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



F512/02
M05/18

Sustainable datasheet

1. RECYCLED CONTENT

- a. 51% Overall recycled content.
- b. **Yarn**
PA 6 Solution Dyed + PA 6 Space Dyed.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number BA09EE5D. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150181-CBC2-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 22 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 p, A-rating – Eco point score 0.299.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 51%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 22 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



38



13

TXTURE



LRV 5 L 25 684



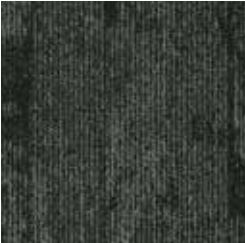
LRV 4 L 21 965



LRV 4 L 21 310



LRV 5 L 25 573



LRV 7 L 32 961



LRV 8 L 34 883



LRV 6 L 29 524



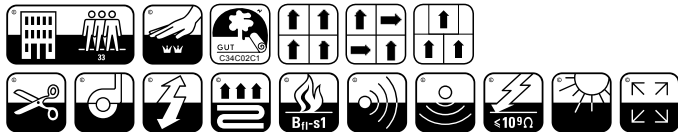
LRV 13 L 42 957



LRV 11 L 38 914

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop Tip Sheared	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 770 g/m²	THERMAL RESISTANCE	ISO 8302 0.070 m² K/W
PILE ABOVE BACKING	Ca. 500 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL _w : 24 dB
TOTAL HEIGHT	Ca. 7.0 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.030.010.100.200.290.31
PILE HEIGHT	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.143 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm
TUFT DENSITY	Ca. 230 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	9
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	C34C02C1 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 63% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon.
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- b. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number C34C02C1. These criteria include VOC tresholds, odour and chemical substances.
- c. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- d. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- e. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150329-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 24 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Txture but please note that a similar product has obtained an Ecopoint score of 0.272 and is A⁺-rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 55%.
MR4 Post-Consumer recycled content: 8%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

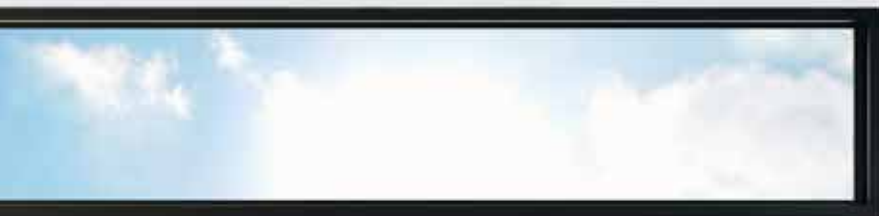
Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 24 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.



42



13

MXTURE

43



LRV 6 L 28 684



LRV 4 L 22 965



LRV 4 L 21 310



LRV 5 L 25 573



LRV 8 L 33 961



LRV 9 L 36 883



LRV 7 L 30 524



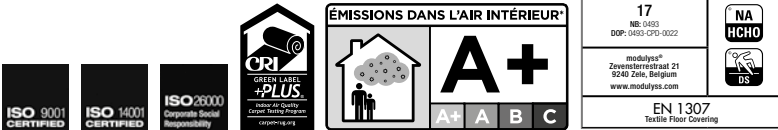
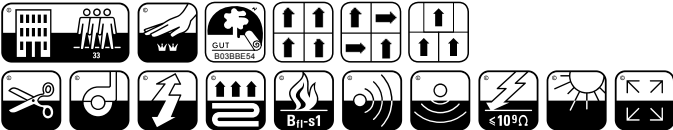
LRV 15 L 45 957



LRV 11 L 39 914

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop Tip Sheared	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 770 g/m²	THERMAL RESISTANCE	ISO 8302 0.071 m² K/W
PILE ABOVE BACKING	Ca. 500 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL _w : 25 dB
TOTAL HEIGHT	Ca. 7.0 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.050.000.060.180.310.38
PILE HEIGHT	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.143 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm
TUFT DENSITY	Ca. 230 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	9
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	B03BBE54 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 63% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon.
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- b. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number B03BBE54. These criteria include VOC tresholds, odour and chemical substances.
- c. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- d. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- e. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150329-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 25 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).
MAT 1 – Life Cycle Impact
BREEAM Rating Offices
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Mxture but please note that a similar product has obtained an Ecopoint score of 0.272 and is A⁺-rated for offices.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.
WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 55%.
MR4 Post-Consumer recycled content: 8%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 25 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.



14

CAMBRIDGE



LRV 8 L 33 482



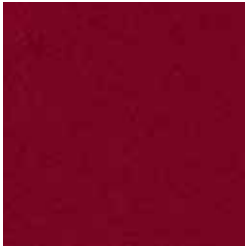
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LRV 15 L 45 322



LRV 8 L 33 307



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LRV 22 L 54 386



LRV 17 L 49 224



LRV 22 L 54 213



LRV 17 L 48 662



LRV 14 L 44 601



LRV 8 L 34 613



LRV 4 L 24 616



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LRV 9 L 36 579



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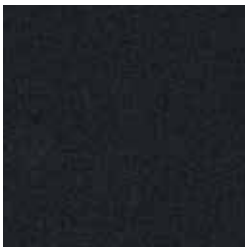
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LRV 11 L 40 823



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LRV 5 L 26 963



LRV 6 L 29 504



LRV 10 L 38 569



LRV 3 L 20 553



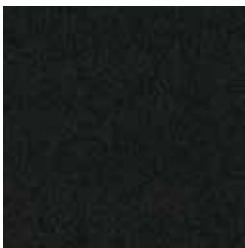
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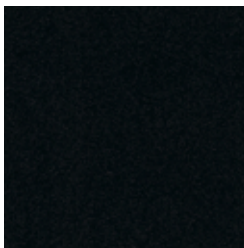
LRV 7 L 32 830



LRV 5 L 25 907



LRV 3 L 21 965



LRV 2 L 14 991



LRV 7 L 31 595



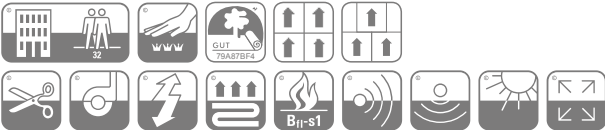
LRV 3 L 18 592

CAMBRIDGE

48

Technical datasheet

CONSTRUCTION	Tufted 1/10" Frisé	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6.6 Antron®	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 650 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 1 050 g/m²	THERMAL RESISTANCE	ISO 8302 0.071 m² K/W
PILE ABOVE BACKING	Ca. 728 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 43 dB (1 000 Hz) ΔL _w : 28 dB
TOTAL HEIGHT	Ca. 8.0 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz125250500100020004000 α _s 0.020.020.090.270.380.51
PILE HEIGHT	Ca. 5.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.146 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965, ≤ 10² Ohm
TUFT DENSITY	Ca. 181 102 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 32 - LC3	NUMBER OF COLOURS	46, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	79A87BF4
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



F512/02 M03/17

Sustainable datasheet

1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. **Yarn**
100% PA 6.6 Antron®.
- c. **Primary Backing**
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- e. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.

- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-603.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 79A87BF4. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170098-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 28 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).
MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 d, A-rating – Eco point score 0.415.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 32 - LC3 for intensive use in a contract environment.
WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 47%.
MR4 Post-Consumer recycled content: 2%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 28 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

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PERPETUAL 965, XTRA PERPETUAL 60F, 65F

15

PERPETUAL



LRV 13 L 43 517



LRV 8 L 35 519



LRV 5 L 26 313



LRV 5 L 25 355



LRV 6 L 28 830



LRV 5 L 27 827



LRV 6 L 31 592



LRV 6 L 30 585



LRV 5 L 27 432



LRV 8 L 34 352



LRV 20 L 52 221



LRV 9 L 37 823



LRV 4 L 25 541



LRV 6 L 30 515



LRV 7 L 32 626



LRV 13 L 43 617



LRV 17 L 49 136



LRV 18 L 50 942



LRV 3 L 21 966



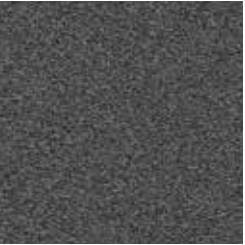
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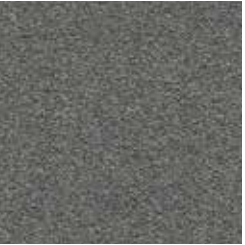
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LRV 6 L 29 989



LRV 11 L 39 907



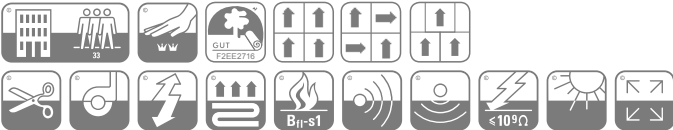
LRV 16 L 47 915

PERPETUAL

52

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% Polyamide	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 700 g/m²	THERMAL RESISTANCE	ISO 8302 0.057 m² K/W
PILE ABOVE BACKING	Ca. 450 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 38 dB (1 000 Hz) ΔL _w : 27 dB
TOTAL HEIGHT	Ca. 6.9 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz125250500100020004000 α _s 0.010.020.080.230.300.40
PILE HEIGHT	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.128 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 104 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	33, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	F2EE2716
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



F512/02
M02/17

Sustainable datasheet

1. RECYCLED CONTENT

- a. 51% Overall recycled content.
- b. **Yarn**
100% Polyamide.
- c. **Primary Backing**
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- e. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.

- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b)
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number F2EE2716. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170095-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 27 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).
MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 u, A-rating – Eco point score 0.331.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.
WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 49%.
MR4 Post-Consumer recycled content: 2%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours. (see GUT certification program)
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 27 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



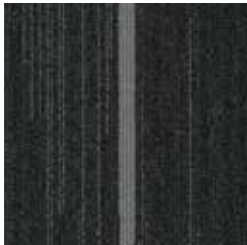
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SHINE-UP

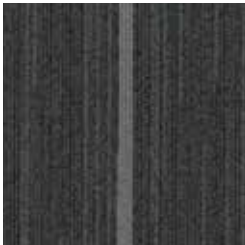
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LRV 10 L 37 562



LRV 10 L 38 995



LRV 13 L 43 956



LRV 11 L 39 981



LRV 15 L 46 139



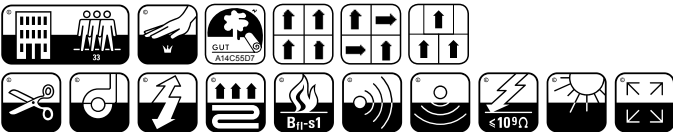
LRV 12 L 41 883

SHINE-UP

56

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	PA 6 Solution Dyed + PA 6 Space Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 660 g/m²	THERMAL RESISTANCE	ISO 8302 0.040 m² K/W
PILE ABOVE BACKING	Ca. 360 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 36 dB (1 000 Hz) ΔL _w : 24 dB
TOTAL HEIGHT	Ca. 6.2 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.010.020.050.180.260.33
PILE HEIGHT	Ca. 2.8 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.129 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 168 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	A14C55D7
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



F512/02
M04/17

Sustainable datasheet

1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. **Yarn**
PA 6 Solution Dyed + PA 6 Space Dyed.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

- This product fulfills the testing criteria for emissions of:
- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
 - b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
 - c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number A14C55D7. These criteria include VOC thresholds, odour and chemical substances.
 - d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
 - e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
 - f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170077-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 24 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 x, A-rating – Eco point score 0.318.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 49%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 24 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

58



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NORMAL 155, NEW NORMAL 136

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NORMAL | NEW NORMAL



LRV 16 L 47 NORMAL 155



LRV 18 L 49 NEW NORMAL 136



LRV 19 L 51 NEW NORMAL 141



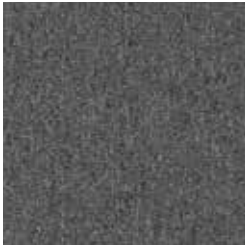
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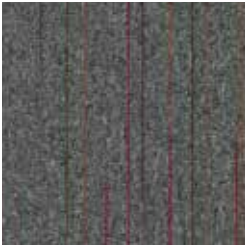
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LRV 8 L 34 NEW NORMAL 831



LRV 16 L 47 NORMAL 915



LRV 23 L 55 NEW NORMAL 936



LRV 20 L 52 NEW NORMAL 961



LRV 7 L 32 NORMAL 942



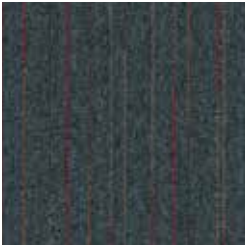
LRV 9 L 35 NEW NORMAL 986



LRV 9 L 36 NEW NORMAL 991



LRV 7 L 32 NORMAL 528



LRV 12 L 41 NEW NORMAL 506



LRV 11 L 40 NEW NORMAL 531



LRV 6 L 29 NORMAL 541



LRV 8 L 33 NEW NORMAL 556



LRV 8 L 34 NEW NORMAL 571

Technical datasheet



Sustainable datasheet

1. RECYCLED CONTENT

- a. 53% Overall recycled content.
- b. **Yarn**
NORMAL: 100% Polyolefine.
NEW NORMAL: 8% PA Space Dyed + 92% Polyolefine.
- c. Primary Backing
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- e. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC'S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 22555. These criteria include VOC thresholds, odour and chemical substances.
- b. **REACH (EU)**
modulyss® complies with the strict European REACH standards.

6. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 26 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 31 - LC1 for intensive use in a contract environment.
- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 51%.
MR4 Post-Consumer recycled content: 2%.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

7. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours.
(see GUT certification program)
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 26 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

19

FIRST LINES



LRV 25 L 57 176



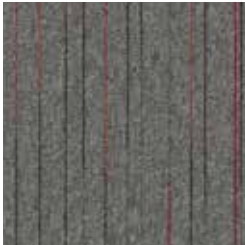
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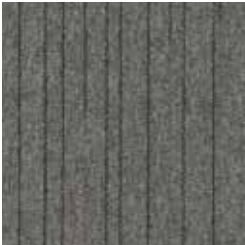
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LRV 7 L 31 856



LRV 17 L 49 996



LRV 18 L 49 901



LRV 10 L 38 916



LRV 12 L 41 921



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LRV 5 L 27 576



LRV 7 L 32 581



LRV 4 L 22 546



LRV 4 L 23 541



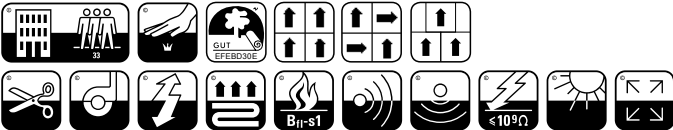
LRV 4 L 22 966



LRV 4 L 23 971

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	92% PA 6 Solution Dyed Aqualon + 8% PA 6 Space Dyed	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5-6
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 300 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 540 g/m²	THERMAL RESISTANCE	ISO 8302 0.047 m² K/W
PILE ABOVE BACKING	Ca. 330 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 37 dB (1 000 Hz) ΔL _w : 25 dB
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz125250500100020004000 α _s 0.010.040.070.190.290.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.114 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 156 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	16
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	EFEBD30E
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 51% Overall recycled content.
- b. **Yarn**
92% PA 6 Solution Dyed Aqualon + 8% PA 6 Space Dyed.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

- This product fulfills the testing criteria for emissions of:
- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
 - b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
 - c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number EFEBD30E. These criteria include VOC thresholds, odour and chemical substances.
 - d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
 - e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
 - f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150181-CBC2-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 25 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 k, A-rating – Eco point score 0.294.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 51%.
MR4 Post-Consumer recycled content: 0%.

MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 25 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



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IN-GROOVE

67



LRV 4 L 21 575



LRV 5 L 26 942



LRV 4 L 24 966



LRV 8 L 34 930



LRV 5 L 25 834



LRV 8 L 34 989

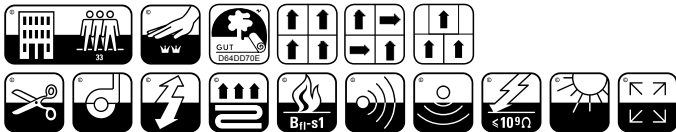


LRV 16 L 46 181

IN-GROOVE

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 700 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 740 g/m²	THERMAL RESISTANCE	ISO 8302 0.050 m² K/W
PILE ABOVE BACKING	Ca. 418 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 36 dB (1 000 Hz) ΔL _w : 22 dB
TOTAL HEIGHT	Ca. 7.2 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.010.040.050.180.250.32
PILE HEIGHT	Ca. 3.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.116 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 158 500 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	7
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	D64DD70E
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 50% Overall recycled content.
- b. **Yarn**
100% PA 6 Aqualon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number D64DD70E. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product.
The EPD-declaration-number is EPD-MOD-20170077-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 22 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 o, A-rating – Eco point score 0.331.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 50%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 22 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

70

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MILLENNIUM100 807, 817, XTRA STEP 60F, 41F

21

XTRA

71



LRV 6 L 30 CAMBRIDGE 30F



LRV 3 L 20 CAMBRIDGE 45F



LRV 6 L 28 CAMBRIDGE 55F



LRV 10 L 38 CAMBRIDGE 65F



LRV 19 L 51 CAMBRIDGE 21F



LRV 15 L 45 CAMBRIDGE 25F



LRV 4 L 23 CAMBRIDGE 41F



LRV 6 L 29 CAMBRIDGE 50F



LRV 17 L 48 CAMBRIDGE 60F



LRV 6 L 29 PERPETUAL 30F



LRV 4 L 23 PERPETUAL 45F



LRV 6 L 31 PERPETUAL 55F



LRV 9 L 36 PERPETUAL 65F



LRV 16 L 46 PERPETUAL 21F



LRV 11 L 39 PERPETUAL 25F



LRV 5 L 28 PERPETUAL 41F



LRV 6 L 32 PERPETUAL 50F



LRV 13 L 43 PERPETUAL 60F



LRV 6 L 30 STEP 30F



LRV 6 L 28 STEP 45F



LRV 7 L 31 STEP 55F



LRV 9 L 37 STEP 65F



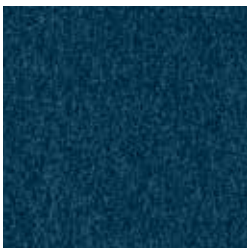
LRV 19 L 50 STEP 21F



LRV 12 L 41 STEP 25F



LRV 6 L 29 STEP 41F



LRV 8 L 33 STEP 50F



LRV 16 L 47 STEP 60F

Go to page 23 for the colour palette of STEP, to page 47 for CAMBRIDGE and to page 51 for PERPETUAL.

Please find the technical datasheets of XTRA on the following pages:

	Page
Step	24
Cambridge	48
Perpetual	52

Sustainable datasheet

Please find the sustainable datasheets of XTRA on the following pages:

	Page
Step	25
Cambridge	49
Perpetual	53

6

74

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FIRST ABSOLUTE 912

23

FIRST ABSOLUTE

75



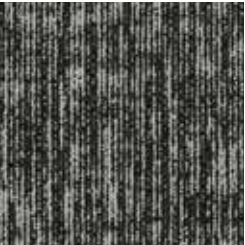
LRV 14 L 44 136



LRV 26 L 58 912



LRV 23 L 56 039



LRV 14 L 44 990



LRV 23 L 55 181



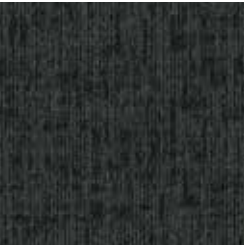
LRV 14 L 44 801



LRV 11 L 40 930



LRV 7 L 31 965



LRV 6 L 30 993



LRV 5 L 26 809



LRV 10 L 37 972



LRV 8 L 34 519



LRV 6 L 29 520

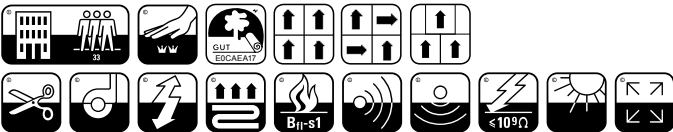


LRV 4 L 24 575

FIRST ABSOLUTE

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 500 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 730 g/m²	THERMAL RESISTANCE	ISO 8302 0.075 m² K/W
PILE ABOVE BACKING	Ca. 420 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 39 dB (1 000 Hz) ΔL _w : 29 dB
TOTAL HEIGHT	Ca. 7.2 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz125250500100020004000 α _s 0.010.040.090.220.340.42
PILE HEIGHT	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.120 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 186 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	14
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	E0CAEA17
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 50% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed Aqualon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number E0CAEA17. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170077-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 29 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 j, A-rating – Eco point score 0.324.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 50%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 29 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



29

ALTERNATIVE100

79



LRV 12 L 41 312



LRV 16 L 47 181



LRV 17 L 48 140



LRV 11 L 39 823



LRV 7 L 32 929



LRV 4 L 22 592



LRV 11 L 39 535



LRV 12 L 41 511



LRV 7 L 31 989



LRV 5 L 26 965

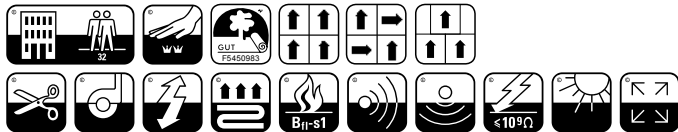


LRV 7 L 32 900

ALTERNATIVE100

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop Tip Sheared	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Space Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 400 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 800 g/m²	THERMAL RESISTANCE	ISO 8302 0.064 m² K/W
PILE ABOVE BACKING	Ca. 460 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 33 dB (1 000 Hz) ΔL _w : 23 dB
TOTAL HEIGHT	Ca. 6.5 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.010.020.060.160.290.36
PILE HEIGHT	Ca. 3.4 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.135 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 206 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 32 - LC2	NUMBER OF COLOURS	11
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	F5450983
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 65% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Space Dyed Nylon.
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number F5450983. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150329-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 23 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).
MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 b, A⁺-rating – Eco point score 0.264.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 32 - LC2 for intensive use in a contract environment.
WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 56%.
MR4 Post-Consumer recycled content: 9%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 23 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.



30

FIRST STRIPES

83



LRV 14 L 45 909



LRV 10 L 37 929



LRV 6 L 28 942



LRV 5 L 26 328



LRV 10 L 38 883



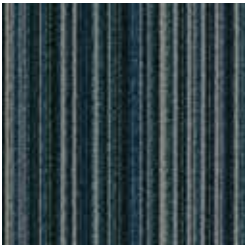
LRV 5 L 27 989



LRV 4 L 23 965



LRV 4 L 24 572

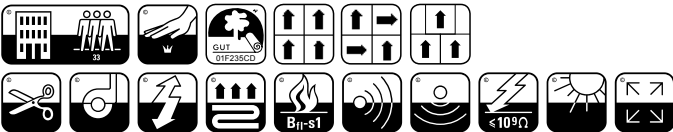


LRV 8 L 34 521

FIRST STRIPES

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 300 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 540 g/m²	THERMAL RESISTANCE	ISO 8302 0.047 m² K/W
PILE ABOVE BACKING	Ca. 330 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 37 dB (1 000 Hz) ΔL _w : 25 dB
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz125250500100020004000 α _s 0.010.040.070.190.290.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.114 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 156 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	9
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	01F235CD
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 52% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed Aqualon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

- This product fulfills the testing criteria for emissions of:
- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
 - b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
 - c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 01F235CD. These criteria include VOC thresholds, odour and chemical substances.
 - d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
 - e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
 - f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150181-CBC2-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 25 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 I, A-rating – Eco point score 0.294.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 52%.
MR4 Post-Consumer recycled content: 0%.

MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 25 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



31

FIRST WAVES

87



LRV 15 L 45 123



LRV 9 L 36 843



LRV 11 L 39 911



LRV 9 L 36 997



LRV 4 L 22 966

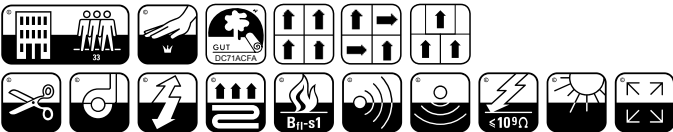


LRV 3 L 20 523

FIRST WAVES

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 300 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 540 g/m²	THERMAL RESISTANCE	ISO 8302 0.047 m² K/W
PILE ABOVE BACKING	Ca. 330 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 37 dB (1 000 Hz) ΔL _w : 25 dB
TOTAL HEIGHT	Ca. 6.4 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz125250500100020004000 α _s 0.010.040.070.190.290.34
PILE HEIGHT	Ca. 2.9 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.114 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10 ⁹ Ohm
TUFT DENSITY	Ca. 156 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	DC71ACFA
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 52% Overall recycled content.

b. **Yarn**
100% PA 6 Solution Dyed Aqualon.

c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.

d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.

b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification

Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns

All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging

We only use cardboard boxes that are made of 100% recycled material.

c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.

b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.

b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.

c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.

b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).

c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number DC71ACFA. These criteria include VOC thresholds, odour and chemical substances.

d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.

e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.

f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150181-CBC2-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality

To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.

■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.

■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance

To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 25 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact

BREEAM Rating Offices
Certificate ENP 428 m, A-rating – Eco point score 0.294.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness

To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management

To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.



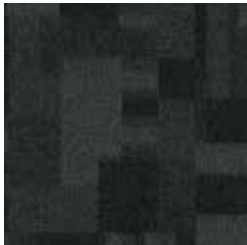
32

FIRST BLOCKS

91



LRV 5 L 26 575



LRV 6 L 29 993



LRV 16 L 47 930



LRV 35 L 66 912



LRV 21 L 53 181

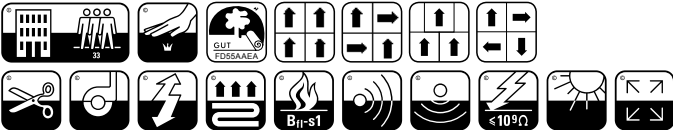


LRV 5 L 28 809

FIRST BLOCKS

Technical datasheet

CONSTRUCTION	Tufted 1/12" loop	FIRE RESISTANCE	EN 13501-1 B _{s1}
PILE MATERIAL	100% PA 6 Solution Dyed Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 400 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 600 g/m²	THERMAL RESISTANCE	ISO 8302 0.064 m² K/W
PILE ABOVE BACKING	Ca. 335 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 36 dB (1 000 Hz) ΔL _w : 24 dB
TOTAL HEIGHT	Ca. 6.8 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.010.010.060.180.270.37
PILE HEIGHT	Ca. 3.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.108 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 174 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR BRE LEED®	FD55AAEA ENP 428 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



F512/02
M06/17

Sustainable datasheet

1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed Aqualon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number FD55AAEA. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150181-CBC2-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 24 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ah, A-rating – Eco point score 0.308.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR4 Post-Industrial recycled content: 49%.
MR4 Post-Consumer recycled content: 0%.

MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 24 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



33

NEW SHAPES







FIRST ABSOLUTE 25x100

	LRV 6 L 30	993
	LRV 23 L 55	181
	LRV 5 L 26	809
	LRV 11 L 40	930
	LRV 26 L 58	912
	LRV 4 L 24	575

XTRA CAMBRIDGE 25x100

	LRV 6 L 30	30F
	LRV 15 L 45	25F
	LRV 19 L 51	21F
	LRV 4 L 23	41F
	LRV 17 L 48	60F
	LRV 6 L 29	50F

ALTERNATIVE100 25x100

	LRV 12 L 41	312
	LRV 16 L 47	181
	LRV 7 L 32	929
	LRV 5 L 26	965
	LRV 7 L 32	900
	LRV 4 L 22	592

NEW SHAPES

Technical datasheet

Please find the technical datasheets of ALTERNATIVE100, FIRST ABSOLUTE and XTRA CAMBRIDGE on the following pages:

	Page
Alternative100	80
First Absolute	76
Cambridge	48

Sustainable datasheet

Please find the sustainable datasheets of ALTERNATIVE100, FIRST ABSOLUTE and XTRA CAMBRIDGE on the following pages:

	Page
Alternative100	81
First Absolute	77
Cambridge	49

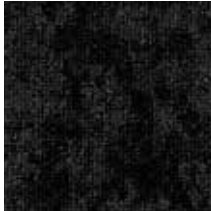




LRV 23 L 55 VISION 914



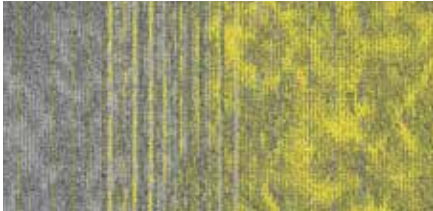
LRV 12 L 37 MOTION 991



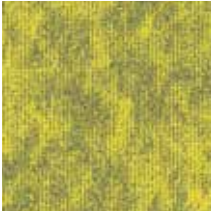
LRV 4 L 21 VISION 991



LRV 23 L 55 VISION 914



LRV 28 L 60 MOTION 210



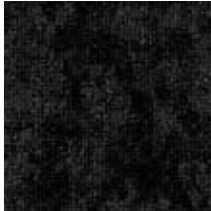
LRV 26 L 58 VISION 210



LRV 15 L 45 VISION 957



LRV 9 L 33 MOTION 961



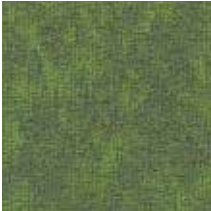
LRV 4 L 21 VISION 991



LRV 23 L 55 VISION 914



LRV 20 L 52 MOTION 669



LRV 16 L 47 VISION 669



LRV 6 L 27 VISION 550



LRV 5 L 23 MOTION 550



LRV 4 L 21 VISION 991



LRV 23 L 55 VISION 914



LRV 13 L 40 MOTION 511



LRV 6 L 27 VISION 511



LRV 23 L 55 VISION 914



LRV 15 L 44 MOTION 332



LRV 8 L 32 VISION 332



LRV 30 L 62 VISION 130



LRV 20 L 51 MOTION 847



LRV 11 L 38 VISION 847



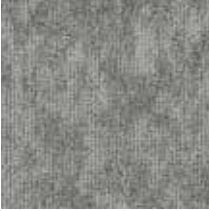
LRV 23 L 55 VISION 914



LRV 14 L 42 MOTION 410



LRV 7 L 30 VISION 410



LRV 23 L 55 VISION 914



LRV 17 L 48 MOTION 315



LRV 14 L 44 VISION 315



LRV 23 L 55 VISION 914



LRV 12 L 38 MOTION 578



LRV 5 L 25 VISION 578



LRV 23 L 55 VISION 914



LRV 19 L 50 MOTION 957



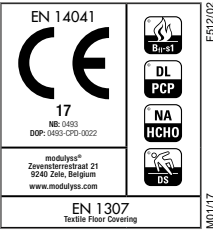
LRV 15 L 45 VISION 957

MOTION /// VISION

100

Technical datasheet

	MOTION	VISION		MOTION	VISION
CONSTRUCTION	Tufted 1/12" Loop	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 600 g/m ²	Ca. 4 600 g/m ²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 680 g/m ²	Ca. 680 g/m ²	THERMAL RESISTANCE	ISO 8302 0.091 m ² K/W	ISO 8302 0.091 m ² K/W
PILE ABOVE BACKING	Ca. 410 g/m ²	Ca. 410 g/m ²	IMPACT NOISE RATING	ISO 10140 ΔL _w : 25 dB	ISO 10140 ΔL _w : 25 dB
TOTAL HEIGHT	Ca. 7.7 mm	Ca. 7.7 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz 125 250 500 1000 2000 4000 α _s 0.04 0.00 0.13 0.20 0.36 0.40	ISO 354 α _w : 0.20 Hz 125 250 500 1000 2000 4000 α _s 0.03 0.00 0.10 0.19 0.36 0.42
PILE HEIGHT	Ca. 3.7 mm	Ca. 3.7 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.110 g/cm ³	Ca. 0.110 g/cm ³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10 ⁹ Ohm	ISO/DIS 10965 ≤ 1 x 10 ⁹ Ohm
TUFT DENSITY	Ca. 197 500 /m ²	Ca. 197 500 /m ²	SIZE & PACKING	50 cm x 50 cm box: 5 m ² pallet: 20 boxes	50 cm x 50 cm box: 5 m ² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	EN 1307 33 - LC2	NUMBER OF COLOURS	12	13
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	11000732 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.	6C678441 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



F512/02

M01/17

Sustainable datasheet

1. RECYCLED CONTENT

- a. 48% Overall recycled content.
- b. **Yarn**
100% PA6 Solution Dyed Nylon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO- 9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- b. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, 11000732 (MOTION) – 6C678441 (VISION). These criteria include VOC tresholds, odour and chemical substances.
- c. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- d. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- e. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, , is available for this product. The EPD-declaration-number is EPD-MOD-20170077-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 26 (MOTION) – 27 (VISION) decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Motion /// Vision but please note that a similar product has obtained an Ecopoint score of 0.325 and is A-rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 48%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 26 (MOTION) – 27 (VISION) decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

PURE AIR100

GUI
Gold
Certificat



PM10 &
PM2.5



Beauty & Function

- 7 COLOURS
- MIX & MATCH
- INFINITE DESIGN POSSIBILITIES

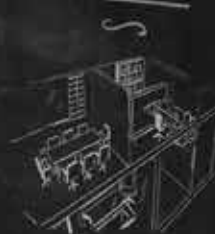


ECONYL® 100%
REGENERATED, STURDY,
THICK, CAPTURES
AND RETAINS PM



modu
lyss

Average time spent:
85% indoors

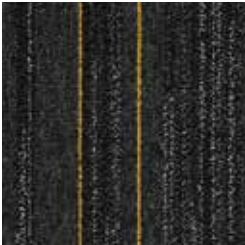


CARPET TILES
FOR HEALTHY INDOORS

35

PURE AIR100

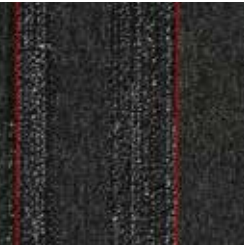
103



LRV 4 L 24 224



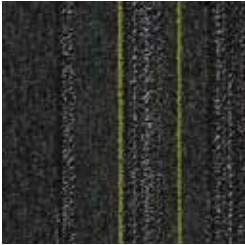
LRV 4 L 22 322



LRV 4 L 23 316



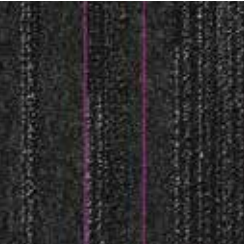
LRV 3 L 21 900



LRV 4 L 22 609



LRV 4 L 23 504

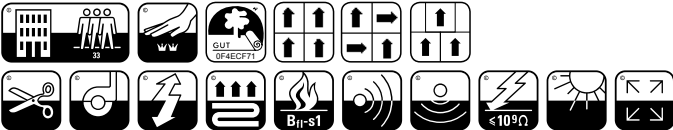


LRV 3 L 22 314

PURE AIR100

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 ECONYL® yarn Regenerated Solution Dyed Nylon + Regenerated Space Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 700 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 700 g/m²	THERMAL RESISTANCE	ISO 8302 0.065 m² K/W
PILE ABOVE BACKING	Ca. 402 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 37 dB (1 000 Hz) ΔL _w : 24 dB
TOTAL HEIGHT	Ca. 6.6 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.00 0.05 0.15 0.25 0.30
PILE HEIGHT	Ca. 3.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.134 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm
TUFT DENSITY	Ca. 180 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	7
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003		
GUI CERTIFICATE	Gold Standard	GUT-NR	0F4ECF71
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 65% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon + Regenerated Space Dyed Nylon.
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO- 9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.

- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 0F4ECF71. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product.
The EPD-declaration-number is EPD-MOD-20150329-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 24 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ak, A⁺-rating – Eco point score 0.26.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 58%.
MR4 Post-Consumer recycled content: 7%.

MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 24 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.



36

DSGN CLOUD

107



LRV 19 L 51 101



LRV 20 L 52 181



LRV 12 L 40 136



LRV 25 L 57 912



LRV 7 L 32 342



LRV 13 L 43 823



LRV 8 L 32 989



LRV 11 L 40 930



LRV 5 L 24 575



LRV 5 L 26 809



LRV 6 L 28 993

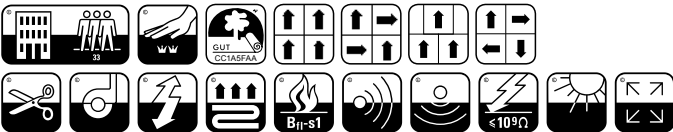


LRV 7 L 31 965

DSGN CLOUD

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 680 g/m²	THERMAL RESISTANCE	ISO 8302 0.070 m² K/W
PILE ABOVE BACKING	Ca. 420 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 42 dB (1 000 Hz) ΔL _w : 26 dB
TOTAL HEIGHT	Ca. 6.7 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.000.030.060.180.310.39
PILE HEIGHT	Ca. 3.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.127 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 193 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	CC1A5FAA
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 48% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed Nylon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number CC1A5FAA. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170077-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 26 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ag, A-rating – Eco point score 0.325.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 48%.
MR4 Post-Consumer recycled content: 0%.

MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 26 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



37

DSGN TWEED

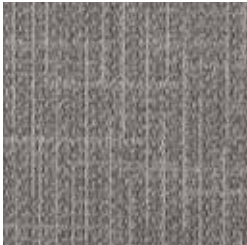
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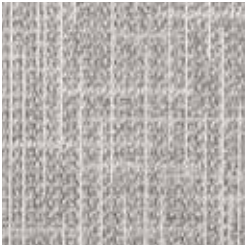
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LRV 17 L 48 181



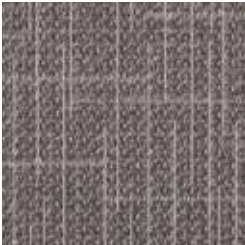
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LRV 25 L 57 912



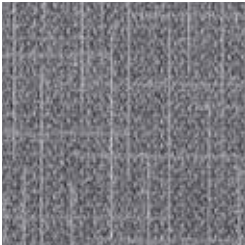
LRV 7 L 32 342



LRV 11 L 40 823



LRV 8 L 34 989



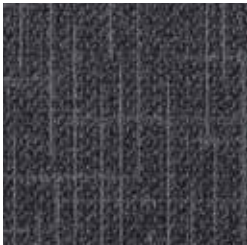
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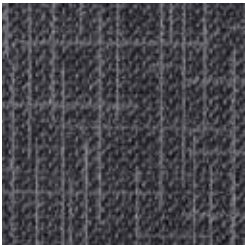
LRV 4 L 23 575



LRV 5 L 26 809



LRV 5 L 26 993

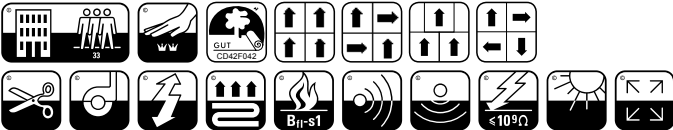


LRV 6 L 28 965

DSGN TWEED

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 680 g/m²	THERMAL RESISTANCE	ISO 8302 0.070 m² K/W
PILE ABOVE BACKING	Ca. 420 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 43 dB (1 000 Hz) ΔL _{w'} : 24 dB
TOTAL HEIGHT	Ca. 6.7 mm	SOUND ABSORPTION	ISO 354 α _{w'} : 0.15 Hz125250500100020004000 α _s 0.000.050.060.170.290.37
PILE HEIGHT	Ca. 3.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.127 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm
TUFT DENSITY	Ca. 221 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	CD42F042
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 48% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed Nylon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number CD42F042. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170077-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 24 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ag, A-rating – Eco point score 0.325.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 48%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 24 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



38

DSGN TRACK

115



LRV 20 L 52 101



LRV 19 L 51 181



LRV 14 L 44 136



LRV 28 L 60 912



LRV 8 L 32 342



LRV 12 L 40 823



LRV 9 L 35 989



LRV 15 L 45 930



LRV 5 L 25 575



LRV 5 L 26 809



LRV 6 L 27 993

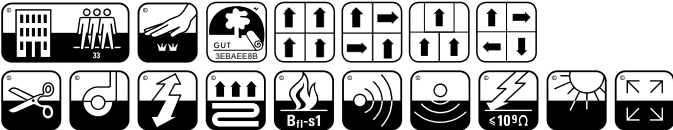


LRV 6 L 29 965

DSGN TRACK

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 680 g/m²	THERMAL RESISTANCE	ISO 8302 0.064 m² K/W
PILE ABOVE BACKING	Ca. 420 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 42 dB (1 000 Hz) ΔL _w : 26 dB
TOTAL HEIGHT	Ca. 6.9 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.000.010.070.190.310.40
PILE HEIGHT	Ca. 3.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.127 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm
TUFT DENSITY	Ca. 183 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	12
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR	3EBAAEE8B
		BRE	ENP 428
		LEED®	Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 48% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed Nylon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 3EBAEE8B. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170077-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 26 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ag, A-rating – Eco point score 0.325.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 48%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

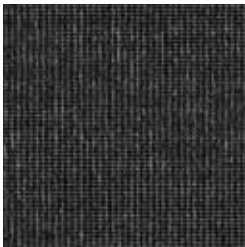
- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 26 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



39

OPPOSITE

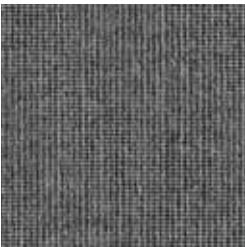
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LRV 7 L 31 942



LRV 7 L 30 579



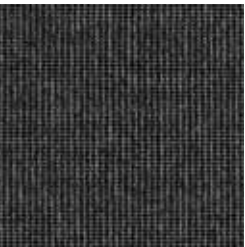
LRV 17 L 48 915



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LRV 4 L 21 991



LRV 4 L 22 553



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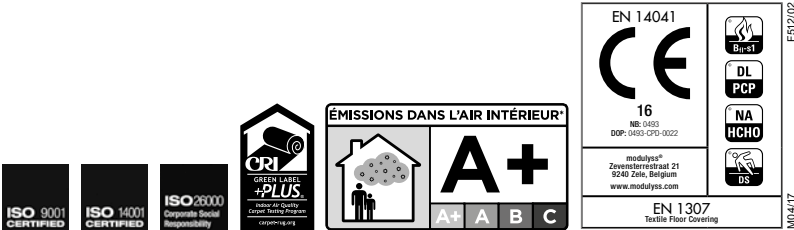
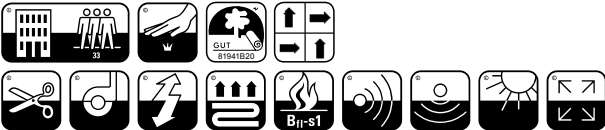


LRV 5 L 26 989

OPPOSITE

Technical datasheet

CONSTRUCTION	Minituft® 5/64" Loop	FIRE RESISTANCE	EN 13501-1 B _{s1} -s1														
PILE MATERIAL	100% PA 6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 500 g/m²	THERMAL RESISTANCE	ISO 8302 0.048 m² K/W														
PILE ABOVE BACKING	Ca. 170 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 11 dB (1 000 Hz) ΔL _w : 16 dB														
TOTAL HEIGHT	Ca. 5.9 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.00</td><td>0.02</td><td>0.05</td><td>0.12</td><td>0.24</td><td>0.27</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.00	0.02	0.05	0.12	0.24	0.27
Hz	125	250	500	1000	2000	4000											
α _s	0.00	0.02	0.05	0.12	0.24	0.27											
PILE HEIGHT	Ca. 1.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.155 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965, ≤ 10° Ohm														
TUFT DENSITY	Ca. 200 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	11														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	81941B20 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



Sustainable datasheet

1. RECYCLED CONTENT

- a. 46% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed Nylon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 81941B20. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150181-CBC2-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 16 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 am, A-rating – Eco point score 0.307.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR4 Post-Industrial recycled content: 46%.
MR4 Post-Consumer recycled content: 0%.

MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

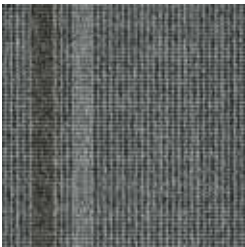
- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 16 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



40

OPPOSITE LINES

123



LRV 17 L 48 915



LRV 14 L 44 907



LRV 16 L 47 817



LRV 7 L 31 942



LRV 8 L 33 983

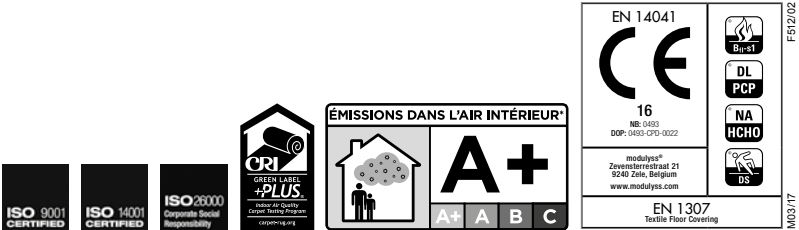
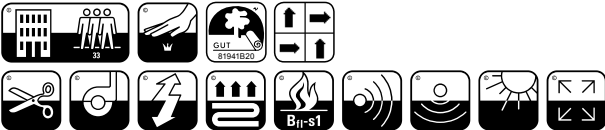


LRV 9 L 36 847

OPPOSITE LINES

Technical datasheet

CONSTRUCTION	Minituft® 5/64" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA6 Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 500 g/m²	THERMAL RESISTANCE	ISO 8302 0.048 m² K/W
PILE ABOVE BACKING	Ca. 170 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 11 dB (1 000 Hz) ΔL _w : 16 dB
TOTAL HEIGHT	Ca. 5.9 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.000.020.050.120.240.27
PILE HEIGHT	Ca. 1.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.155 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965, ≤ 10 ⁹ Ohm
TUFT DENSITY	Ca. 200 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	81941B20 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 46% Overall recycled content.
- b. **Yarn**
100% PA 6 Solution Dyed Nylon.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.

- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 81941B20. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150181-CBC2-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 16 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 am, A-rating – Eco point score 0.307.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:
MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 46%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 16 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

126



41

PIXEL

127



LRV 16 L 47 957



LRV 17 L 48 610



LRV 6 L 29 830



LRV 5 L 27 965



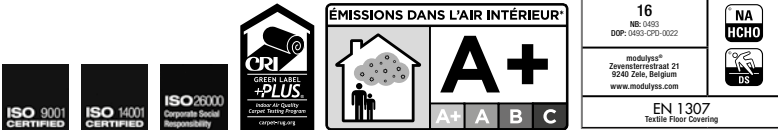
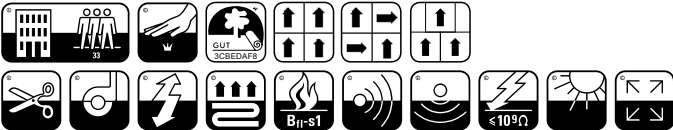
LRV 7 L 32 592



LRV 8 L 33 351

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop, printed	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1														
PILE MATERIAL	100% PA 6 IMPREL	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5-6														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 400 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 605 g/m²	THERMAL RESISTANCE	ISO 8302 0.063 m² K/W														
PILE ABOVE BACKING	Ca. 372 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 32 dB (1 000 Hz) ΔL _w : 23 dB														
TOTAL HEIGHT	Ca. 6.6 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.00</td><td>0.00</td><td>0.06</td><td>0.15</td><td>0.28</td><td>0.31</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.00	0.00	0.06	0.15	0.28	0.31
Hz	125	250	500	1000	2000	4000											
α _s	0.00	0.00	0.06	0.15	0.28	0.31											
PILE HEIGHT	Ca. 3.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.120 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm														
TUFT DENSITY	Ca. 218 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6, Special colours possible														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	3CBEDAF8 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



Sustainable datasheet

1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. **Yarn**
100% PA 6 IMPREL.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.

- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 3CBEDAF8. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estatebusinesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170095-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
 - Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
 - modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 23 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 al, A-rating – Eco point score 0.315.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials

optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimization - Sourcing of raw materials. MR4 Post-Industrial recycled content: 49%.
MR4 Post-Consumer recycled content: 0%.

MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 23 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

130



42

PATCHWORK

131



LRV 18 L 50 957



LRV 19 L 50 610



LRV 8 L 34 830



LRV 8 L 33 965



LRV 6 L 29 592

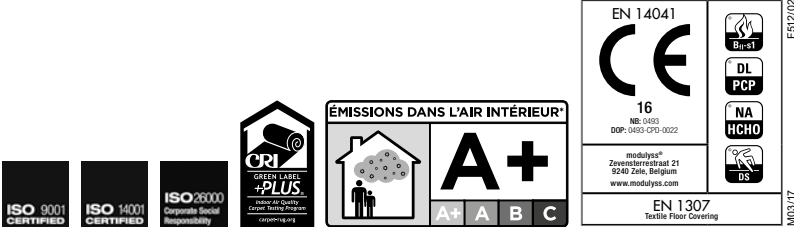
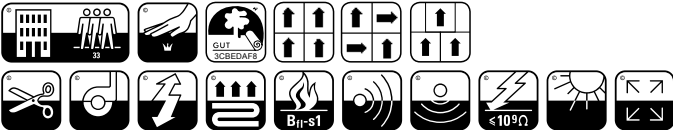


LRV 7 L 32 351

PATCHWORK

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop, printed	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1														
PILE MATERIAL	100% PA 6 IMPREL	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5-6														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 400 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 605 g/m²	THERMAL RESISTANCE	ISO 8302 0.063 m² K/W														
PILE ABOVE BACKING	Ca. 372 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 32 dB (1 000 Hz) ΔL _w : 23 dB														
TOTAL HEIGHT	Ca. 6.6 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.00</td><td>0.00</td><td>0.06</td><td>0.15</td><td>0.28</td><td>0.31</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.00	0.00	0.06	0.15	0.28	0.31
Hz	125	250	500	1000	2000	4000											
α _s	0.00	0.00	0.06	0.15	0.28	0.31											
PILE HEIGHT	Ca. 3.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.120 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm														
TUFT DENSITY	Ca. 218 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6, Special colours possible														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	3CBEDAF8 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



Sustainable datasheet

1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. **Yarn**
100% PA 6 IMPREL.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

- This product fulfills the testing criteria for emissions of:
- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
 - b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b).
 - c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 3CBEDAF8. These criteria include VOC thresholds, odour and chemical substances.
 - d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
 - e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
 - f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product.
The EPD-declaration-number is EPD-MOD-20170095-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 23 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 al, A-rating – Eco point score 0.315.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimization - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 49%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 23 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

134



43

PATTERN

135



LRV 11 L 40 957



LRV 7 L 31 610



LRV 4 L 22 830



LRV 3 L 18 965



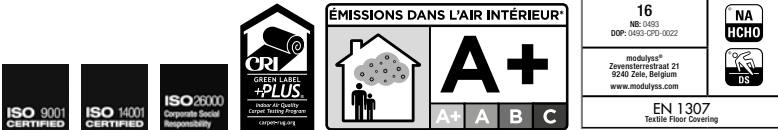
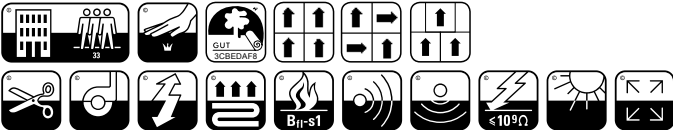
LRV 4 L 23 592



LRV 5 L 25 351

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop, printed	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1														
PILE MATERIAL	100% PA 6 IMPREL	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5-6														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 400 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 605 g/m²	THERMAL RESISTANCE	ISO 8302 0.063 m² K/W														
PILE ABOVE BACKING	Ca. 372 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 32 dB (1 000 Hz) ΔL _w : 23 dB														
TOTAL HEIGHT	Ca. 6.6 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.00</td><td>0.00</td><td>0.06</td><td>0.15</td><td>0.28</td><td>0.31</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.00	0.00	0.06	0.15	0.28	0.31
Hz	125	250	500	1000	2000	4000											
α _s	0.00	0.00	0.06	0.15	0.28	0.31											
PILE HEIGHT	Ca. 3.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.120 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm														
TUFT DENSITY	Ca. 218 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	6, Special colours possible														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	3CBEDAF8 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



Sustainable datasheet

1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. **Yarn**
100% PA 6 IMPREL.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.

ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).

Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.

Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

- This product fulfills the testing criteria for emissions of:
- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
 - b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b).
 - c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 3CBEDAF8. These criteria include VOC thresholds, odour and chemical substances.
 - d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
 - e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
 - f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product.
The EPD-declaration-number is EPD-MOD-20170095-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 23 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 al, A-rating – Eco point score 0.315.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimization - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 49%.
MR4 Post-Consumer recycled content: 0%.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 23 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



44

MOSS

139



LRV 38 L 68 130



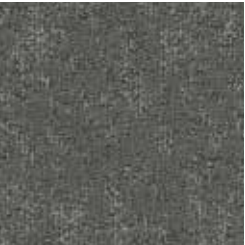
LRV 14 L 44 586



LRV 8 L 34 668



LRV 11 L 39 850



LRV 14 L 44 983



LRV 3 L 17 966



LRV 3 L 16 592



LRV 4 L 20 352



LRV 7 L 30 810

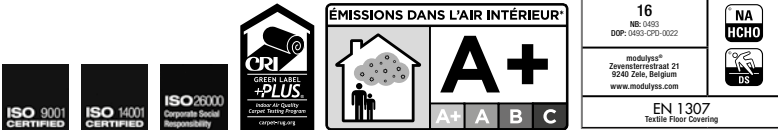
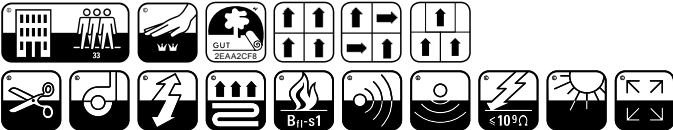


LRV 8 L 32 961

MOSS

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1														
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 880 g/m²	THERMAL RESISTANCE	ISO 8302 0.084 m² K/W														
PILE ABOVE BACKING	Ca. 590 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 36 dB (1 000 Hz) ΔL _w : 26 dB														
TOTAL HEIGHT	Ca. 7.8 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.00</td><td>0.00</td><td>0.09</td><td>0.21</td><td>0.35</td><td>0.45</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.00	0.00	0.09	0.21	0.35	0.45
Hz	125	250	500	1000	2000	4000											
α _s	0.00	0.00	0.09	0.21	0.35	0.45											
PILE HEIGHT	Ca. 4.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.137 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm														
TUFT DENSITY	Ca. 225 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	10														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	2EAA2CF8 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



Sustainable datasheet

1. RECYCLED CONTENT

- a. 64% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon.
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 2EAA2CF8. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170096-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 26 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).
MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 am, A⁺-rating – Eco point score 0.27.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.
WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 55%.
MR4 Post-Consumer recycled content: 9%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 26 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.



45

LEAF

143



LRV 37 L 67 130



LRV 13 L 43 586



LRV 7 L 32 668



LRV 11 L 40 850



LRV 14 L 44 983



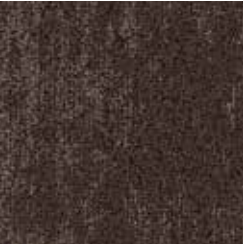
LRV 3 L 18 966



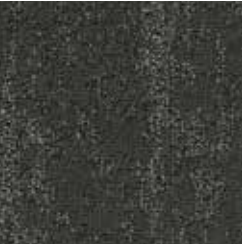
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LRV 4 L 22 352



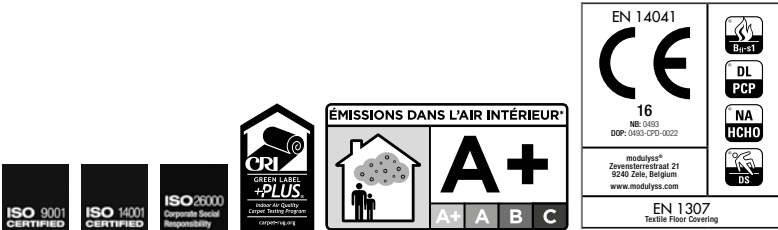
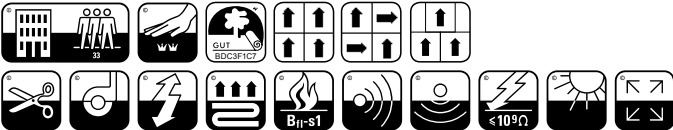
LRV 8 L 34 810



LRV 9 L 36 961

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1														
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 880 g/m²	THERMAL RESISTANCE	ISO 8302 0.085 m² K/W														
PILE ABOVE BACKING	Ca. 610 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 42 dB (1 000 Hz) ΔL _w : 26 dB														
TOTAL HEIGHT	Ca. 7.8 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.00</td><td>0.00</td><td>0.11</td><td>0.20</td><td>0.35</td><td>0.46</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.00	0.00	0.11	0.20	0.35	0.46
Hz	125	250	500	1000	2000	4000											
α _s	0.00	0.00	0.11	0.20	0.35	0.46											
PILE HEIGHT	Ca. 4.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.142 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm														
TUFT DENSITY	Ca. 225 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	10														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	BDC3F1C7 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



Sustainable datasheet

1. RECYCLED CONTENT

- a. 64% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon.
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number BDC3F1C7. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170096-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 26 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).
MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 am, A⁺-rating – Eco point score 0.27.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.
WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 55%.
MR4 Post-Consumer recycled content: 9%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 26 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.



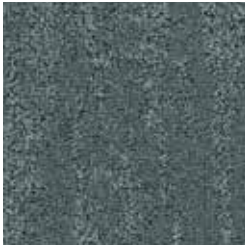
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WILLOW

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LRV 34 L 65 130



LRV 15 L 46 586



LRV 8 L 33 668



LRV 12 L 42 850



LRV 16 L 47 983



LRV 4 L 20 966



LRV 4 L 20 592



LRV 5 L 24 352



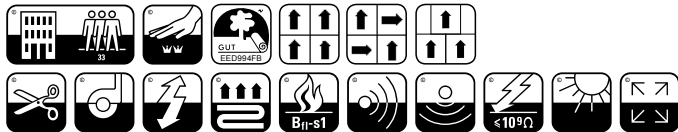
LRV 8 L 34 810



LRV 9 L 36 961

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _f -s1														
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 600 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 880 g/m²	THERMAL RESISTANCE	ISO 8302 0.086 m² K/W														
PILE ABOVE BACKING	Ca. 630 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 36 dB (1 000 Hz) ΔL _w : 27 dB														
TOTAL HEIGHT	Ca. 7.8 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.00</td><td>0.06</td><td>0.08</td><td>0.19</td><td>0.37</td><td>0.47</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.00	0.06	0.08	0.19	0.37	0.47
Hz	125	250	500	1000	2000	4000											
α _s	0.00	0.06	0.08	0.19	0.37	0.47											
PILE HEIGHT	Ca. 4.3 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.146 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10 ⁹ Ohm														
TUFT DENSITY	Ca. 225 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	10														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	EED994FB Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



Sustainable datasheet

1. RECYCLED CONTENT

- a. 64% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number EED994FB. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170096-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 27 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).
MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 an, A-rating – Eco point score 0.27.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.
WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 55%.
MR4 Post-Consumer recycled content: 9%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 27 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.

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GRIND

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LRV 31 L 63 130



LRV 15 L 46 983



LRV 12 L 42 850



LRV 5 L 24 966



LRV 15 L 46 586



LRV 9 L 36 668

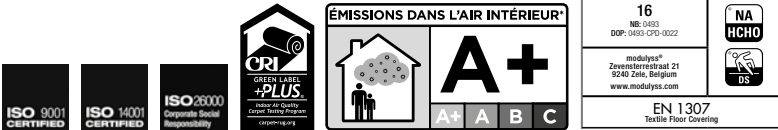
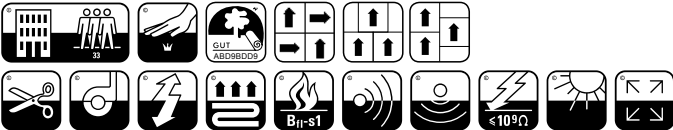


LRV 10 L 37 961

GRIND

152 Technical datasheet

CONSTRUCTION	Minituft® 5/64" Loop	FIRE RESISTANCE	EN 13501-1 B _{f1} -s1
PILE MATERIAL	100% ECONYL® yarn 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 500 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 600 g/m²	THERMAL RESISTANCE	ISO 8302 0.046 m² K/W
PILE ABOVE BACKING	Ca. 197 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 12 dB (1 000 Hz) ΔL _w : 16 dB
TOTAL HEIGHT	Ca. 5.8 mm	SOUND ABSORPTION	ISO 354 α _w : 0.10 Hz 125 250 500 1000 2000 4000 α _s 0.01 0.05 0.04 0.10 0.24 0.29
PILE HEIGHT	Ca. 1.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.197 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10 ⁸ Ohm
TUFT DENSITY	Ca. 200 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	7
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
ENVIRONNEMENTALES	Données Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	ABD9BDD9 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



F512/0 M03/17

Sustainable datasheet

1. RECYCLED CONTENT

- a. 61% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number ABD9BDD9. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20150329-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 16 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.10 (ISO 354).
MAT 1 – Life Cycle Impact
BREEAM Rating Offices
Certificate ENP 428 ao, A⁺-rating - Eco Point score 0.258.
To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building. For more information on the Green Guide to Specification visit www.bre.co.uk/greenguide or www.greenbooklive.com.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC1 for intensive use in a contract environment.
WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 55%.
MR4 Post-Consumer recycled content: 6%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.
- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **ECNZ (NZE)**
Environmental Choice of New Zealand.
This product is labeled by ECNZ Labeling Program, which encourages sustainable processes and products.
- e. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 16 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.

154



**modu
lyss®**

FASHION& 332, 936, 950, 961, 979, 990

48

FASHION&



LRV 33 L 64 105



LRV 20 L 52 915



LRV 27 L 59 979



LRV 16 L 48 181



LRV 22 L 55 241



LRV 8 L 34 819



LRV 14 L 44 398



LRV 15 L 46 136



LRV 20 L 52 950



LRV 14 L 44 595



LRV 16 L 47 206



LRV 44 L 73 240



LRV 17 L 48 375



LRV 6 L 28 431



LRV 11 L 39 936



LRV 11 L 39 942



LRV 6 L 27 585



LRV 22 L 55 673



LRV 13 L 43 669



LRV 10 L 37 332



LRV 5 L 25 482



LRV 8 L 33 817



LRV 7 L 30 961



LRV 5 L 26 580



LRV 12 L 42 649



LRV 9 L 36 699



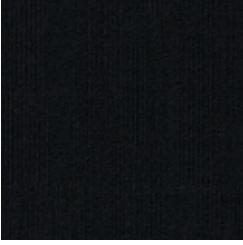
LRV 8 L 33 381



LRV 4 L 23 832



LRV 4 L 23 966



LRV 3 L 17 990



LRV 3 L 16 512



LRV 4 L 23 671



LRV 5 L 27 678



LRV 4 L 22 395

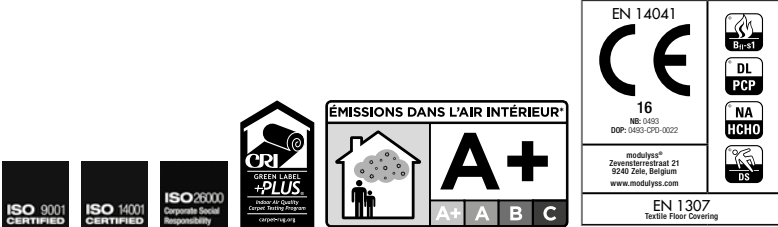
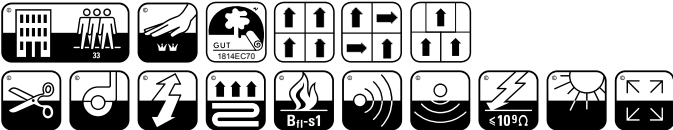


LRV 3 L 18 832

155

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1 B _{s1} -s1														
PILE MATERIAL	100% PA 6 Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 800 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 870 g/m²	THERMAL RESISTANCE	ISO 8302 0.070 m² K/W														
PILE ABOVE BACKING	Ca. 595 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 44 dB (1 000 Hz) ΔL _w : 26 dB														
TOTAL HEIGHT	Ca. 7.7 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.01</td><td>0.05</td><td>0.06</td><td>0.17</td><td>0.32</td><td>0.44</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.01	0.05	0.06	0.17	0.32	0.44
Hz	125	250	500	1000	2000	4000											
α _s	0.01	0.05	0.06	0.17	0.32	0.44											
PILE HEIGHT	Ca. 4.1 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.145 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm														
TUFT DENSITY	Ca. 240 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	36, Special colours possible														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	1814EC70 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



Sustainable datasheet

1. RECYCLED CONTENT

- a. 48% Overall recycled content.
- b. **Yarn**
100% PA 6 Aqualon.
- c. **Primary Backing**
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- e. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2 000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **DIBT (DE)**
Deutsche Institute für BauTechnik
TVOC28<1.0 mg/m³
This product is DIBT-certified, Abz-number Z-156.601-604.
- b. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus, GLP 1101 (see LEED®, point 7.b).
- c. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 1814EC70. These criteria include VOC thresholds, odour and chemical substances.
- d. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- e. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estate businesses. The core of the system is a database of substances, materials and products. B-rating.
- f. **M1 (FI)**
This certificate is granted by the Building Information Foundation RTS sr. The aim of the classification is to enhance the development and the use of low-emitting building materials to create a healthy indoor environment.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170095-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:
Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.
Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 26 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).
MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Fashion& but please note that a similar product has obtained an Ecopoint score of 0.348 and is A-rated for offices.
MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.
WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.

- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED® v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimisation - Environmental Product Declarations.
MR credit: Building product disclosure and optimisation - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 46%.
MR4 Post-Consumer recycled content: 2%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED®, LEED® credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED®, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 26 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



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VELVET& 541, 573

49

VELVET&

159



LRV 26 L 58 130



LRV 14 L 44 212



LRV 13 L 42 213



LRV 7 L 30 283



LRV 3 L 19 346



LRV 4 L 20 483



LRV 9 L 35 823



LRV 5 L 26 662



LRV 4 L 22 616



LRV 5 L 25 609



LRV 3 L 17 550



LRV 3 L 18 573



LRV 15 L 46 932



LRV 9 L 36 907



LRV 7 L 30 963



LRV 4 L 23 965



LRV 3 L 14 990



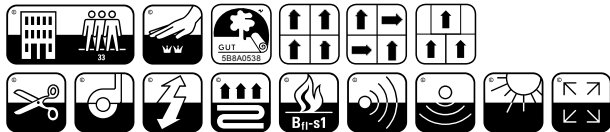
LRV 2 L 11 541

VELVET&

160

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop Tip sheared	FIRE RESISTANCE	EN 13501-1 B _{fl} -s1
PILE MATERIAL	100% PA 6 Aqualon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 4 750 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 900 g/m²	THERMAL RESISTANCE	ISO 8302 0.094 m² K/W
PILE ABOVE BACKING	Ca. 570 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL _w : 25 dB
TOTAL HEIGHT	Ca. 7.6 - 8.8 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 Hz125250500100020004000 α _s 0.000.010.070.200.350.46
PILE HEIGHT	Ca. 3.8 - 5.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.114 - 0.150 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 10⁹ Ohm
TUFT DENSITY	Ca. 240 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	18, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	5B8A0538 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



F512/02
M03/18

Sustainable datasheet

1. RECYCLED CONTENT

- a. 49% Overall recycled content.
- b. **Yarn**
100% PA6 Aqualon.
- c. **Primary Backing**
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- e. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1101 (see LEED®, point 7.b).
- b. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 5B8A0538. These criteria include VOC tresholds, odour and chemical substances.
- c. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- d. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estatebusinesses. The core of the system is a database of substances, materials and products. B-rating.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170095-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 25 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Velvet& but please note that a similar product has obtained an Ecopoint score of 0.348 and is A-rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.
- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimization - Environmental Product Declarations.
MR credit: Building product disclosure and optimization - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 47%.
MR4 Post-Consumer recycled content: 2%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED, LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 25 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.



50

BLAZE

163



LRV 9 L 36 270



LRV 5 L 25 399



LRV 5 L 24 831



LRV 6 L 30 668



LRV 6 L 27 553



LRV 8 L 33 963



LRV 6 L 29 990



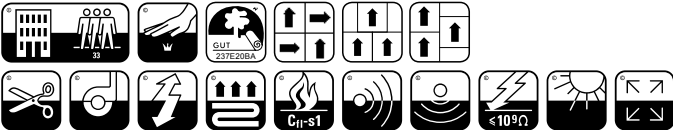
LRV 8 L 33 961



LRV 10 L 37 907

Technical datasheet

CONSTRUCTION	Minituft® 5/64" loop	FIRE RESISTANCE	EN 13501-1 C _{fl} -s1														
PILE MATERIAL	100% ECONYL® yarn, 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4-5														
TOTAL WEIGHT	Ca. 4 950 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4-5														
PILE WEIGHT	Ca. 640 g/m²	THERMAL RESISTANCE	ISO 8302 0.040 m² K/W														
PILE ABOVE BACKING	Ca. 215 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 9 dB (1 000 Hz) ΔL _w : 15 dB														
TOTAL HEIGHT	Ca. 6.1 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.00</td><td>0.03</td><td>0.04</td><td>0.12</td><td>0.21</td><td>0.30</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.00	0.03	0.04	0.12	0.21	0.30
Hz	125	250	500	1000	2000	4000											
α _s	0.00	0.03	0.04	0.12	0.21	0.30											
PILE HEIGHT	Ca. 1.0 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.215 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm														
TUFT DENSITY	Ca. 200 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC1	NUMBER OF COLOURS	9														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	237E20BA Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



Sustainable datasheet

1. RECYCLED CONTENT

- a. 56% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 7.b).
- b. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 237E20BA. These criteria include VOC thresholds, odour and chemical substances.
- c. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- d. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estatebusinesses. The core of the system is a database of substances, materials and products. B-rating.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardized way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is in request for this product.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 15 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Blaze but please note that a similar product has obtained an Ecopoint score of 0,2700 and is A+ rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33-LC1 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.
- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimization - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 50%.
MR4 Post-Consumer recycled content: 6%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED, LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 15 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.

PUNCH
TODAY
IN THE
FACE

51

DUSK

167



14M



14B



93M



93B



10M



10B



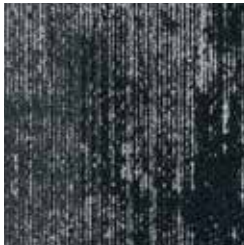
21M



21B



57M



57B



96M



96B



82M



82B



55M



55B



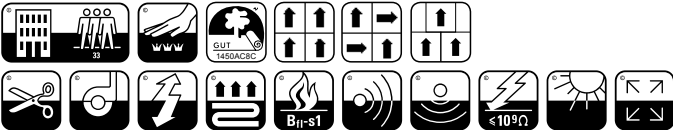
99M



99B

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1: B _{fl} -s1
PILE MATERIAL	100% ECONYL® yarn, 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4-5
TOTAL WEIGHT	Ca. 4 800 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4-5
PILE WEIGHT	Ca. 800 g/m²	THERMAL RESISTANCE	ISO 8302 0.075 m² K/W
PILE ABOVE BACKING	Ca. 620 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 39 dB (1 000 Hz) ΔL _w : 24 dB
TOTAL HEIGHT	Ca. 7.7 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz 125 250 500 1000 2000 4000 α _s 0.03 0.04 0.09 0.19 0.32 0.39
PILE HEIGHT	Ca. 4.2 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.147 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm
TUFT DENSITY	Ca. 295 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC3	NUMBER OF COLOURS	18
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	1450AC8C Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 65% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 7.b).
- b. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 1450AC8C. These criteria include VOC tresholds, odour and chemical substances.
- c. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- d. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estatebusinesses. The core of the system is a database of substances, materials and products. B-rating.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170096-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 24 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Dusk but please note that a similar product has obtained an Ecopoint score of 0,2700 and is A+ rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC3 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.
- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimization - Environmental Product Declarations.
MR credit: Building product disclosure and optimization - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 57%.
MR4 Post-Consumer recycled content: 8%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED, LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. Good Environmental Choice Australia (GECA) (AU)
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 24 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.



**modu
lyss®**

DAWN 82B, 82M & GLEAM 306

51

DAWN

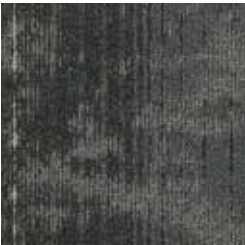
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14M



14B



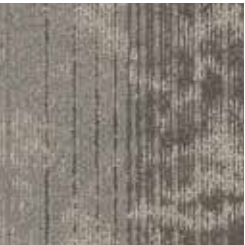
93M



93B



10M



10B



21M



21B



57M



57B



96M



96B



82M



82B



55M



55B



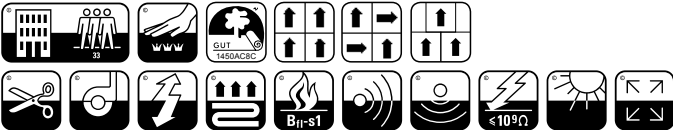
99M



99B

Technical datasheet

CONSTRUCTION	Tufted 1/12" Loop	FIRE RESISTANCE	EN 13501-1: B _{fl} -s1														
PILE MATERIAL	100% ECONYL® yarn, 100% Regenerated Solution Dyed Nylon	FASTNESS TO LIGHT	ISO 105-B02 ≥ 7														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4-5														
TOTAL WEIGHT	Ca. 4 800 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4-5														
PILE WEIGHT	Ca. 840 g/m²	THERMAL RESISTANCE	ISO 8302 0.080 m² K/W														
PILE ABOVE BACKING	Ca. 620 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 39 dB (1 000 Hz) ΔL _w : 24 dB														
TOTAL HEIGHT	Ca. 7.7 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.03</td><td>0.04</td><td>0.09</td><td>0.19</td><td>0.32</td><td>0.39</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.03	0.04	0.09	0.19	0.32	0.39
Hz	125	250	500	1000	2000	4000											
α _s	0.03	0.04	0.09	0.19	0.32	0.39											
PILE HEIGHT	Ca. 4.2 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.147 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁸ Ohm														
TUFT DENSITY	Ca. 295 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC3	NUMBER OF COLOURS	18														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
ENVIRONNEMENTALES	Données Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	1450AC8C Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



Sustainable datasheet

1. RECYCLED CONTENT

- a. 66% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon
ECONYL® is manufactured using post-industrial and post-consumer Polyamide 6 waste, making it 100% sustainable.
- c. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- d. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1100 (see LEED®, point 7.b).
- b. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 1450AC8C. These criteria include VOC thresholds, odour and chemical substances.
- c. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- d. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estatebusinesses. The core of the system is a database of substances, materials and products. B-rating.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170096-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 24 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Dawn but please note that a similar product has obtained an Ecopoint score of 0.2700 and is A+ rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC3 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.
- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimization - Environmental Product Declarations.
MR credit: Building product disclosure and optimization - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 57%.
MR4 Post-Consumer recycled content: 9%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED, LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 24 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each product, modulyss decided to join Healthy Seas® as an associate partner member. Healthy Seas® was set up to protect our seas by diving for abandoned fishing nets that catch or injure marine life. Healthy Seas® makes sure that the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil, Europe's premier manufacturer of PA 6 carpet fibre.

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modu
lyss®

GLEAM 511, 535, 569, 581 & SPARK 511, 550

52

GLEAM

175



LRV 4 L 23 346



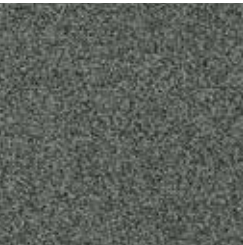
LRV 7 L 32 306



LRV 13 L 43 212



LRV 9 L 35 615



LRV 17 L 48 535



LRV 13 L 42 579



LRV 5 L 24 482



LRV 6 L 29 866



LRV 11 L 39 606



LRV 10 L 37 609



LRV 9 L 36 511



LRV 8 L 32 569



LRV 3 L 17 581



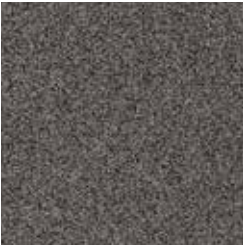
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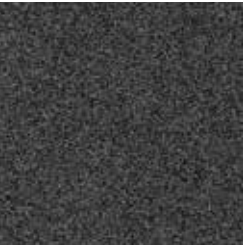
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LRV 13 L 43 894



LRV 15 L 45 847



LRV 10 L 37 994



LRV 8 L 33 530



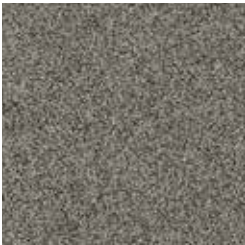
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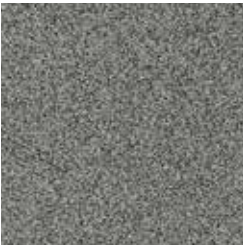
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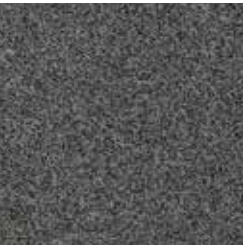
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LRV 21 L 53 033



LRV 22 L 54 020



LRV 15 L 46 907



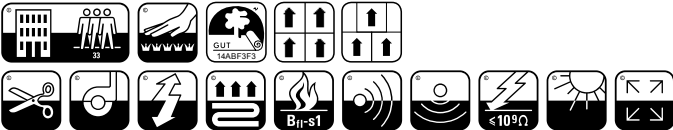
LRV 8 L 33 989



LRV 5 L 25 966

Technical datasheet

CONSTRUCTION	Tufted 1/10" Cutpile Frisé	FIRE RESISTANCE	EN 13501-1: B _f -s1
PILE MATERIAL	ECONYL® yarn, 100 % Regenerated Solution Dyed Nylon + PA 6	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece 10% recycled content included.	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4
TOTAL WEIGHT	Ca. 5 150 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 1 300 g/m²	THERMAL RESISTANCE	ISO 8302 0.107 m² K/W
PILE ABOVE BACKING	Ca. 1 045 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 51 dB (1 000 Hz) ΔL _w : 31 dB
TOTAL HEIGHT	Ca. 9.5 mm	SOUND ABSORPTION	ISO 354 α _w : 0.20 Hz 125 250 500 1000 2000 4000 α _s 0.00 0.03 0.12 0.23 0.44 0.57
PILE HEIGHT	Ca. 6.2 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.169 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10 ⁸ Ohm
TUFT DENSITY	Ca. 164 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 4 m² pallet: 20 boxes
CLASSIFICATION	EN 1307 33 - LC5	NUMBER OF COLOURS	27, Special colours possible
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%
ENVIRONNEMENTALES	Données Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	14ABF3F3 Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.



Sustainable datasheet

1. RECYCLED CONTENT

- a. 46% Overall recycled content.
- b. **Yarn**
100% ECONYL® yarn - 100% Regenerated Solution Dyed Nylon + PA 6
ECONYL® is manufactured using post-industrial and post-consumer
Polyamide 6 waste, making it 100% sustainable.
- c. **Primary Backing**
Colback SMR is produced out 100% post-consumer recycled PET,
originated from bottle scrap.
- d. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the
secondary backing, giving it a 10% post-industrial recycled content.
- e. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial
recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at
modulyss is 100% 'green electricity' generated from renewable resources
such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the
packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2000 and ISO-14001
certified (Environmental Management) since 2009. modulyss also works in accordance with
ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines
of the Global Reporting Initiative (GRI), the international standard for sustainability reporting,
and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability
report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very
low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation
descriptions the waste for Carpet tiles is 3-4%. In comparison for
broadloom the waste during installation rises till ± 10%. More information
can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical
areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles
in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles
are converted into secondary fuel to reduce CO₂ emissions significantly.
The minerals are extracted from the carpet tiles and recycled into raw
material for the cement production industry, which results in ± 50%
recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1101
(see LEED®, point 7.b).
- b. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number 14ABF3F3.
These criteria include VOC thresholds, odour and chemical substances.
- c. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- d. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment
of products in the construction and real estatebusinesses. The core of the
system is a database of substances, materials and products. B-rating.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental
impact of a product during the entire life. They include information on the
environmental impact of raw material extraction and production, energy use
and efficiency, content of materials and chemical substances, emissions to air,
soil and water and waste generation. A product-specific EPD in accordance
with the ISO14025 and EN15804, is available for this product.
The EPD-declaration-number is EPD-MOD-20170095-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and
installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for
formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate
standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by
31 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.20 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The
BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6
months continuous production prior to a request for certification and the certification process
takes approximately 6 months to complete. As a result, we are currently not able to provide a
BRE Global Environmental Profile Certificate for Gleam but please note that a similar product is
A-rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and
landscape, therefore minimising the frequency of replacement and maximising materials
optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC5 for
intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of
construction waste. This product can contribute to waste reduction on site. See item 3,
installation, for more details. Concerns cutting waste on installation of carpet tiles.
- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimization -
Environmental Product Declarations.
MR credit: Building product disclosure and optimization - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 45%.
MR4 Post-Consumer recycled content: 2%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED, LEED credit requirements cover
the performance of materials in aggregate, not the performance of
individual products of brands. For more information on LEED,
visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in
accordance with NF P01 010. This product can contribute to eight of the
13 HQE targets as follows:

Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling
program. Certification program that assesses and certifies products and
services that have a lower impact on the environment and human health
and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is
solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful
substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours
(see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by
31 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

9. MEMBER OF HEALTHY SEAS®

As part of our sustainable mission to reduce the Life Cycle Impact of each
product, modulyss decided to join Healthy Seas® as an associate partner
member. Healthy Seas® was set up to protect our seas by diving for abandoned
fishing nets that catch or injure marine life. Healthy Seas® makes sure that
the fishing nets get recycled and regenerated into ECONYL® yarn by Aquafil,
Europe's premier manufacturer of PA 6 carpet fibre.



53

SPARK

179



LRV 6 L 28 313



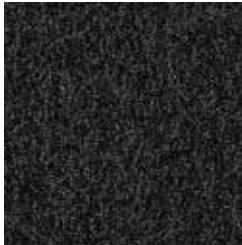
LRV 5 L 26 352



LRV 6 L 27 212



LRV 4 L 23 550



LRV 5 L 27 907



LRV 7 L 30 866



LRV 9 L 36 847



LRV 4 L 23 306



LRV 5 L 25 482



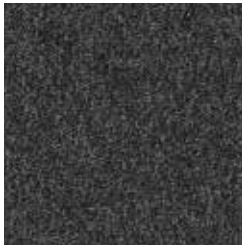
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LRV 5 L 25 579



LRV 9 L 36 961



LRV 8 L 33 989



LRV 20 L 51 140



LRV 5 L 25 398



LRV 5 L 26 581



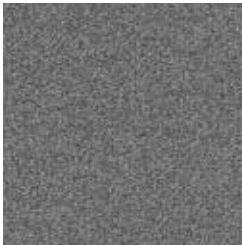
LRV 7 L 30 511



LRV 10 L 38 530



LRV 11 L 39 994



LRV 16 L 47 932



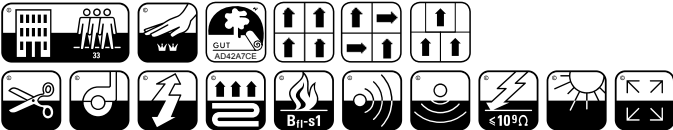
LRV 28 L 60 102

SPARK

180

Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1: B _{fl} -s1														
PILE MATERIAL	100% PA 6	FASTNESS TO LIGHT	ISO 105-B02 ≥ 5-6														
SECONDARY BACKING	Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece. 10% recycled content included	RUBBING FASTNESS	EN ISO 105-X12 ≥ 4														
TOTAL WEIGHT	Ca. 4 350 g/m²	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4														
PILE WEIGHT	Ca. 690 g/m²	THERMAL RESISTANCE	ISO 8302 0.059 m² K/W														
PILE ABOVE BACKING	Ca. 500 g/m²	IMPACT NOISE RATING	ISO 10140 ΔL: 40 dB (1 000 Hz) ΔL _w : 24 dB														
TOTAL HEIGHT	Ca. 6.6 mm	SOUND ABSORPTION	ISO 354 α _w : 0.15 <table><tr><td>Hz</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td></tr><tr><td>α_s</td><td>0.01</td><td>0.02</td><td>0.06</td><td>0.17</td><td>0.33</td><td>0.44</td></tr></table>	Hz	125	250	500	1000	2000	4000	α _s	0.01	0.02	0.06	0.17	0.33	0.44
Hz	125	250	500	1000	2000	4000											
α _s	0.01	0.02	0.06	0.17	0.33	0.44											
PILE HEIGHT	Ca. 3.5 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV														
PILE DENSITY	Ca. 0.143 g/cm³	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 1 x 10⁹ Ohm														
TUFT DENSITY	Ca. 272 000 /m²	SIZE & PACKING	50 cm x 50 cm box: 5 m² pallet: 20 boxes														
CLASSIFICATION	EN 1307 33 - LC2	NUMBER OF COLOURS	21, Special colours possible														
CASTOR CHAIR SUITABILITY	EN 985 A: continuous use	DIMENSIONAL STABILITY	EN 986 Max. 0.2%														
DONNÉES ENVIRONNEMENTALES	Démarche HQE® : cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED®	AD42A7CE Product contributes toward satisfying Credits under LEED®. For more information, see the modulyss sustainable datasheets.														



F512/02
M02/18

Sustainable datasheet

1. RECYCLED CONTENT

- a. 54% Overall recycled content.
- b. **Yarn**
100% PA 6.
- c. **Primary Backing**
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- d. **Secondary Backing – back2back**
The waste from the tile cutting process is shredded and added to the secondary backing, giving it a 10% post-industrial recycled content.
- e. **Recycled limestone in the backing**
The filler used for the production of our carpet tiles is 100% post-industrial recycled, diverted from a waste stream of the limestone mining.

2. MANUFACTURING

- a. **Renewable energy**
49% of our energy consumption is electricity. The electricity that we use at modulyss is 100% 'green electricity' generated from renewable resources such as our own solar panels.
- b. **Production site & process**
modulyss runs an integrated production chain: from tufting to the packaging of the finished tile.
ISO certification
Our production site is ISO-9001 certified (Quality Management) since 2000 and ISO-14001 certified (Environmental Management) since 2009. modulyss also works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the guidelines of the Global Reporting Initiative (GRI), the international standard for sustainability reporting, and the UN's Sustainable Development Goals (SDGs).
Recycling raw yarns
All the left over and waste yarns are collected and recycled into new yarns.
Ecological Packaging
We only use cardboard boxes that are made of 100% recycled material.
- c. **Sustainability report**
Read all about our approach to the environment in our sustainability report 2016: <http://www.modulyss.com/ebook/mvo/>.

3. INSTALLATION

- a. **Adhesive**
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- b. **Installation waste**
In a rectangular building, installed before walls, using our installation descriptions the waste for Carpet tiles is 3-4%. In comparison for broadloom the waste during installation rises till ± 10%. More information can be found in our installation instructions.

4. END OF LIFE

- a. **Re-use**
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- b. **Recycling**
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- c. **CARE**
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO₂ emissions significantly. The minerals are extracted from the carpet tiles and recycled into raw material for the cement production industry, which results in ± 50% recycling of our carpet tiles.

5. VOC’S & CHEMICAL SUBSTANCES

This product fulfills the testing criteria for emissions of:

- a. **CRI (US and international)**
Carpet & Rug Institute
Compliant to the requirements of Green Label Plus certificate GLP 1101 (see LEED®, point 7.b).
- b. **GUT (DE)**
Gemeinschaft Umweltfreundlicher Teppichboden
TVOC28<100 µg/m³
This product meets the GUT-criteria, GUT-license number AD42A7CE. These criteria include VOC tresholds, odour and chemical substances.
- c. **REACH (EU)**
modulyss® complies with the strict European REACH standards.
- d. **Sundahus (SE)**
SundaHus Miljödata is a system of health and environmental assessment of products in the construction and real estatebusinesses. The core of the system is a database of substances, materials and products. B-rating.

6. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

An EPD is a standardised way to provide information on the environmental impact of a product during the entire life. They include information on the environmental impact of raw material extraction and production, energy use and efficiency, content of materials and chemical substances, emissions to air, soil and water and waste generation. A product-specific EPD in accordance with the ISO14025 and EN15804, is available for this product. The EPD-declaration-number is EPD-MOD-20170095-CBC1-EN.

7. COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- a. **BRE Global (UK)**
Building Research Establishment.
This product can contribute towards credits in:

Hea 02 – Indoor Air Quality
To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes.
■ Use of a low-emission adhesive on installation (BN EN 13999-1:2007) can contribute to this credit.
■ modulyss® carpet tiles meet the requirements of EN14041, including E1 classification for formaldehyde emissions, and can contribute to the credit for healthy indoor air quality.

Hea 05 – Acoustic performance
To ensure the buildings' acoustic performance including sound insulation meet the appropriate standards for its purpose. This product is highly sound-absorbent. It reduces contact noise by 24 decibels (ΔL_w - ISO 10140) and has an absorption coefficient of 0.15 (ISO 354).

MAT 1 – Life Cycle Impact
All modulyss® products are rated for offices according to BRE Green Guide to Specification. The BRE Global Environmental Profiles Certification Scheme requires evidence of a minimum of 6 months continuous production prior to a request for certification and the certification process takes approximately 6 months to complete. As a result, we are currently not able to provide a BRE Global Environmental Profile Certificate for Spark but please note that a similar product has obtained an Ecopoint score of 0.331 and is A-rated for offices.

MAT 5 – Designing for Robustness
To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials optimisation. This product satisfies the requirements of EN1307 classification, class 33 - LC2 for intensive use in a contract environment.

WST 01 – Construction Waste Management
To promote resource efficiency via the effective management and reduction of construction waste. This product can contribute to waste reduction on site. See item 3, installation, for more details. Concerns cutting waste on installation of carpet tiles.
- b. **LEED® (US and international)**
Leadership in Energy and Environmental Design
modulyss products can contribute to the following LEED v4 credits:

MR credit: Interiors Life-Cycle Impact Reduction.
MR credit: Building product disclosure and optimization - Environmental Product Declarations.
MR credit: Building product disclosure and optimization - Sourcing of raw materials.
MR4 Post-Industrial recycled content: 52%.
MR4 Post-Consumer recycled content: 2%.
MR credit: Building product disclosure and optimisation - Material ingredients.
MR credit: Construction and demolition waste management.
EQ credit: Low emitting materials.
EQ credit: Indoor air quality assessment.
EQ credit: Acoustic performance.

Products are not reviewed under LEED, LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products of brands. For more information on LEED, visit www.usgbc.org/contact.

- c. **HQE (FR)**
Haute Qualité Environnementale
In 2005 modulyss® was awarded the HQE certificate by FDES in accordance with NF P01 010. This product can contribute to eight of the 13 HQE targets as follows:








Eco-Construction	MOQUETTES FDES
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Comfort	MOQUETTES FDES
Hygrothermal comfort	T8
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Health	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13
- d. **Good Environmental Choice Australia (GECA) (AU)**
Australia's only independent, not-for-profit, multi-sector ecolabelling program. Certification program that assesses and certifies products and services that have a lower impact on the environment and human health and address important social considerations.

8. HEALTH & COMFORT

- a. **Solvent-free Bitume**
For the bitumebacking we only use bitumen that is not oxidised and is solvent-free.
- b. **No heavy metals**
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- c. **Odour**
modulyss® carpet tiles are free from odours (see GUT certification program).
- d. **Acoustics**
This product is strongly sound absorbent. It reduces the contact noise by 24 decibels (ΔL_w - ISO 10140), with a perfect acoustic effect as result.

Overview technical data per product – LOOP PILE








#	PAGE	PRODUCT	CONSTRUCTION	PILE MATERIAL	PILE WEIGHT	TOTAL WEIGHT	PILE ABOVE BACKING	TOTAL HEIGHT	PILE HEIGHT	PILE DENSITY	TUFT DENSITY	
00	Page 2	ALPHA	Tufted 1/10" Loop	100% PA 6 Solution Dyed Nylon	Ca. 500 g/m²	Ca. 4 300 g/m²	Ca. 302 g/m²	Ca. 5.8 mm	Ca. 2.6 mm	Ca. 0.116 g/cm³	Ca. 171 600 /m²	
29	Page 78	ALTERNATIVE100	Tufted 1/10" Loop Tip Sheared	100% ECONYL® Yarn + 100% Regenerated Space Dyed Nylon	Ca. 800 g/m²	Ca. 4 400 g/m²	Ca. 460 g/m²	Ca. 6.5 mm	Ca. 3.4 mm	Ca. 0.135 g/cm³	Ca. 206 000 /m²	
09	Page 26	BLACK&	Tufted 1/10" Loop	50% PA 6.6 Antron® + 50% PA 6.6 Antron® SDN	Ca. 850 g/m²	Ca. 4 400 g/m²	Ca. 422 g/m²	Ca. 6.8 mm	Ca. 3.5 mm	Ca. 0.121 g/cm³	Ca. 154 440 /m²	
50	Page 162	BLAZE	Minituft® 5/64" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 640 g/m²	Ca. 4 950 g/m²	Ca. 215 g/m²	Ca. 6.1 mm	Ca. 1.0 mm	Ca. 0,215 g/cm³	Ca. 200 000 /m²	
51	Page 170	DAWN	Tufted 1/12" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 840 g/m²	Ca. 4 800 g/m²	Ca. 620 g/m²	Ca. 7.7 mm	Ca. 4.2 mm	Ca. 0,147 g/cm³	Ca. 295 000 /m²	
36	Page 106	DSGN CLOUD	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m²	Ca. 4 600 g/m²	Ca. 420 g/m²	Ca. 6.7 mm	Ca. 3.3 mm	Ca. 0.127 g/cm³	Ca. 193 000 /m²	
37	Page 110	DSGN TWEED	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m²	Ca. 4 600 g/m²	Ca. 420 g/m²	Ca. 6.7 mm	Ca. 3.3 mm	Ca. 0.127 g/cm³	Ca. 221 000 /m²	
38	Page 114	DSGN TRACK	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m²	Ca. 4 600 g/m²	Ca. 420 g/m²	Ca. 6.9 mm	Ca. 3.3 mm	Ca. 0.127 g/cm³	Ca. 183 000 /m²	
51	Page 166	DUSK	Tufted 1/12" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 800 g/m²	Ca. 4 800 g/m²	Ca. 620 g/m²	Ca. 7.7 mm	Ca. 4.2 mm	Ca. 0,147 g/cm³	Ca. 295 000 /m²	
48	Page 154	FASHION&	Tufted 1/12" Loop	100% PA 6 Aqualon	Ca. 870 g/m²	Ca. 4 800 g/m²	Ca. 595 g/m²	Ca. 7.7 mm	Ca. 4.1 mm	Ca. 0.145 g/cm³	Ca. 240 000 /m²	
01	Page 6	FIRST	Tufted 1/10" Loop	100% PA 6 Solution Dyed Nylon	Ca. 540 g/m²	Ca. 4 300 g/m²	Ca. 330 g/m²	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm³	Ca. 156 000 /m²	
23	Page 74	FIRST ABSOLUTE	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 730 g/m²	Ca. 4 500 g/m²	Ca. 420 g/m²	Ca. 7.2 mm	Ca. 3.5 mm	Ca. 0.120 g/cm³	Ca. 186 000 /m²	
32	Page 90	FIRST BLOCKS	Tufted 1/12" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 600 g/m²	Ca. 4 400 g/m²	Ca. 335 g/m²	Ca. 6.8 mm	Ca. 3.1 mm	Ca. 0.108 g/cm³	Ca. 174 000 /m²	
19	Page 62	FIRST LINES	Tufted 1/10" Loop	92% PA 6 Solution Dyed Aqualon + 8% PA 6 Space Dyed	Ca. 540 g/m²	Ca. 4 300 g/m²	Ca. 330 g/m²	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm³	Ca. 156 000 /m²	
10	Page 30	FIRST RADIANT	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 540 g/m²	Ca. 4 300 g/m²	Ca. 330 g/m²	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm³	Ca. 156 000 /m²	
30	Page 82	FIRST STRIPES	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 540 g/m²	Ca. 4 300 g/m²	Ca. 330 g/m²	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm³	Ca. 156 000 /m²	
31	Page 86	FIRST WAVES	Tufted 1/10" Loop	100% PA 6 Solution Dyed Aqualon	Ca. 540 g/m²	Ca. 4 300 g/m²	Ca. 330 g/m²	Ca. 6.4 mm	Ca. 2.9 mm	Ca. 0.114 g/cm³	Ca. 156 000 /m²	
47	Page 150	GRIND	Minituft® 5/64" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 600 g/m²	Ca. 4 500 g/m²	Ca. 197 g/m²	Ca. 5.8 mm	Ca. 1.0 mm	Ca. 0.197 g/cm³	Ca. 200 000 /m²	
20	Page 66	IN-GROOVE	Tufted 1/10" Loop	100% PA 6 Aqualon	Ca. 740 g/m²	Ca. 4 700 g/m²	Ca. 418 g/m²	Ca. 7.2 mm	Ca. 3.6 mm	Ca. 0.116 g/cm³	Ca. 158 500 /m²	
45	Page 142	LEAF	Tufted 1/12" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 880 g/m²	Ca. 4 600 g/m²	Ca. 610 g/m²	Ca. 7.8 mm	Ca. 4.3 mm	Ca. 0.142 g/cm³	Ca. 225 000 /m²	
12	Page 34	LINE-UP	Tufted 1/10" Loop	PA 6 Solution Dyed + PA 6 Space Dyed	Ca. 550 g/m²	Ca. 4 400 g/m²	Ca. 309 g/m²	Ca. 5.7 mm	Ca. 2.3 mm	Ca. 0.124 g/cm³	Ca. 156 000 /m²	
03	Page 10	MILLENNIUM NXTGEN	Tufted 1/10" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 600 g/m²	Ca. 4 400 g/m²	Ca. 395 g/m²	Ca. 6.3 mm	Ca. 3.2 mm	Ca. 0,123 g/cm³	Ca. 160 000 /m²	
44	Page 138	MOSS	Tufted 1/12" Loop	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 880 g/m²	Ca. 4 600 g/m²	Ca. 590 g/m²	Ca. 7.8 mm	Ca. 4.3 mm	Ca. 0.137 g/cm³	Ca. 225 000 /m²	
34	Page 98	MOTION	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m²	Ca. 4 600 g/m²	Ca. 410 g/m²	Ca. 7.7 mm	Ca. 3.7 mm	Ca. 0,110 g/cm³	Ca. 197 500 /m²	
34	Page 98	VISION	Tufted 1/12" Loop	100% PA 6 Solution Dyed Nylon	Ca. 680 g/m²	Ca. 4 600 g/m²	Ca. 410 g/m²	Ca. 7.7 mm	Ca. 3.7 mm	Ca. 0,110 g/cm³	Ca. 197 500 /m²	
13	Page 42	MXTURE	Tufted 1/12" Loop Tip Sheared	100% ECONYL® Yarn + 100% Regenerated Solution Dyed Nylon	Ca. 770 g/m²	Ca. 4 600 g/m²	Ca. 500 g/m²	Ca. 7.0 mm	Ca. 3.5 mm	Ca. 0,143 g/cm³	Ca. 230 000 /m²	

	CLASS EN 1307	FIRE CLASS	THERMAL RESISTANCE	ΔL 1 000 Hz	ΔL_w (dB)	α_w (H)							
	33-LC1	B _{fl} -s1	0.067 m² K/W	30	22	0.15	■	■	■	■	■		
	32-LC2	B _{fl} -s1	0.064 m² K/W	33	23	0.15	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0.055 m² K/W	37	24	0.20	■	■	■	■	■		
	33-LC1	C _{fl} -s1	0,040 m² K/W	9	15	0.15	■	■		■	■		■
	33-LC3	B _{fl} -s1	0,080 m² K/W	39	24	0.20	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0.070 m² K/W	42	26	0.15	■	■	■	■	■	■	
	33-LC2	B _{fl} -s1	0.070 m² K/W	43	24	0.15	■	■	■	■	■	■	
	33-LC2	B _{fl} -s1	0.064 m² K/W	42	26	0.15	■	■	■	■	■	■	
	33-LC3	B _{fl} -s1	0,075 m² K/W	39	24	0.20	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0.070 m² K/W	44	26	0.15	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.047 m² K/W	37	25	0.20	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0.075 m² K/W	39	29	0.20	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.064 m² K/W	36	24	0.15	■	■	■	■	■	■	
	33-LC1	B _{fl} -s1	0.047 m² K/W	37	25	0.20	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.047 m² K/W	37	25	0.20	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.047 m² K/W	37	25	0.20	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.047 m² K/W	37	25	0.20	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.046 m² K/W	12	16	0.10	■	■		■	■		■
	33-LC2	B _{fl} -s1	0.050 m² K/W	36	22	0.15	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0.085 m² K/W	42	26	0.20	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.039 m² K/W	33	22	0.15	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0,066 m² K/W		25	0.15	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0.084 m² K/W	36	26	0.15	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0,091 m² K/W		25	0.20	■	■	■	■	■	■	
	33-LC2	B _{fl} -s1	0,091 m² K/W		25	0.20	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0,071 m² K/W		25	0.15	■	■	■	■	■		

#	PAGE	PRODUCT	CONSTRUCTION	PILE MATERIAL	PILE WEIGHT	TOTAL WEIGHT	PILE ABOVE BACKING	TOTAL HEIGHT	PILE HEIGHT	PILE DENSITY	TUFT DENSITY	
18	Page 58	NORMAL	Tufted 1/10" Loop	100% Polyolefine	Ca. 580 g/m²	Ca. 4 100 g/m²	Ca. 340 g/m²	Ca. 6.2 mm	Ca. 3.4 mm	Ca. 0.100 g/cm³	Ca. 156 000 /m²	
18	Page 58	NEW NORMAL	Tufted 1/10" Loop	8% PA Space Dyed + 92% Polyolefine	Ca. 580 g/m²	Ca. 4 100 g/m²	Ca. 340 g/m²	Ca. 6.2 mm	Ca. 3.4 mm	Ca. 0.100 g/cm³	Ca. 156 000 /m²	
04	Page 14	ON-LINE 1	Tufted 1/10" Loop	100% PA 6.6 Antron®	Ca. 700 g/m²	Ca. 4 530 g/m²	Ca. 380 g/m²	Ca. 6.0 mm	Ca. 2.6 mm	Ca. 0.146 g/cm³	Ca. 146 500 /m²	
05	Page 18	ON-LINE 2	Tufted 1/10" Loop	100% PA 6.6 Antron®	Ca. 700 g/m²	Ca. 4 530 g/m²	Ca. 380 g/m²	Ca. 6.0 mm	Ca. 2.6 mm	Ca. 0.146 g/cm³	Ca. 146 500 /m²	
39	Page 118	OPPOSITE	Minituft® 5/64" Loop	100% PA 6 Solution Dyed Nylon	Ca. 500 g/m²	Ca. 4 600 g/m²	Ca. 170 g/m²	Ca. 5.9 mm	Ca. 1.1 mm	Ca. 0.155 g/cm³	Ca. 200 000 /m²	
40	Page 122	OPPOSITE LINES	Minituft® 5/64" Loop	100% PA 6 Solution Dyed Nylon	Ca. 500 g/m²	Ca. 4 600 g/m²	Ca. 170 g/m²	Ca. 5.9 mm	Ca. 1.1 mm	Ca. 0.155 g/cm³	Ca. 200 000 /m²	
42	Page 130	PATCHWORK	Tufted 1/10" Loop, printed	100% PA 6 IMPREL	Ca. 605 g/m²	Ca. 4 400 g/m²	Ca. 372 g/m²	Ca. 6.6 mm	Ca. 3.1 mm	Ca. 0.120 g/cm³	Ca. 218 000 /m²	
43	Page 134	PATTERN	Tufted 1/10" Loop, printed	100% PA 6 IMPREL	Ca. 605 g/m²	Ca. 4 400 g/m²	Ca. 372 g/m²	Ca. 6.6 mm	Ca. 3.1 mm	Ca. 0.120 g/cm³	Ca. 218 000 /m²	
41	Page 126	PIXEL	Tufted 1/10" Loop, printed	100% PA 6 IMPREL	Ca. 605 g/m²	Ca. 4 400 g/m²	Ca. 372 g/m²	Ca. 6.6 mm	Ca. 3.1 mm	Ca. 0.120 g/cm³	Ca. 218 000 /m²	
15	Page 50	PERPETUAL	Tufted 1/10" Loop	100% Polyamide	Ca. 700 g/m²	Ca. 4 600 g/m²	Ca. 450 g/m²	Ca. 6.9 mm	Ca. 3.5 mm	Ca. 0.128 g/cm³	Ca. 104 000 /m²	
35	Page 102	PURE AIR100	Tufted 1/10" Loop	100% PA 6 ECONYL® Yarn + Regenerated Solution Dyed Nylon + Regenerated Space Dyed Nylon	Ca. 700 g/m²	Ca. 4 700 g/m²	Ca. 402 g/m²	Ca. 6.6 mm	Ca. 3.0 mm	Ca. 0.134 g/cm³	Ca. 180 000 /m²	
16	Page 54	SHINE-UP	Tufted 1/10" Loop	PA 6 Solution Dyed + PA 6 Space Dyed	Ca. 660 g/m²	Ca. 4 600 g/m²	Ca. 360 g/m²	Ca. 6.2 mm	Ca. 2.8 mm	Ca. 0.129 g/cm³	Ca. 168 000 /m²	
52	Page 178	SPARK	Tufted 1/10" Loop	100% PA 6	Ca. 690 g/m²	Ca. 4 350 g/m²	Ca. 500 g/m²	Ca. 6.6 mm	Ca. 3.5 mm	Ca. 0,143 g/cm³	Ca. 272 000 /m²	
06	Page 22	STEP	Tufted 1/10" Loop	100% PA 6 Aqualon	Ca. 530 g/m²	Ca. 4 300 g/m²	Ca. 335 g/m²	Ca. 6.0 mm	Ca. 2.8 mm	Ca. 0.120 g/cm³	Ca. 160 000 /m²	
13	Page 38	TXTURE	Tufted 1/12" Loop Tip Sheared	100% ECONYL® Yarn 100% Regenerated Solution Dyed Nylon	Ca. 770 g/m²	Ca. 4 600 g/m²	Ca. 500 g/m²	Ca. 7.0 mm	Ca. 3.5 mm	Ca. 0,143 g/cm³	Ca. 230 000 /m²	
49	Page 158	VELVET&	Tufted 1/12" Loop Tip Sheared	100% PA 6 Aqualon	Ca. 900 g/m²	Ca. 4 750 g/m²	Ca. 570 g/m²	Ca. 7.6 - 8.8 mm	Ca. 3.8 - 5.0 mm	Ca. 0,114 - 0,150 g/cm³	Ca. 240 000 /m²	
46	Page 146	WILLOW	Tufted 1/12" Loop	100% ECONYL® Yarn 100% Regenerated Solution Dyed Nylon	Ca. 880 g/m²	Ca. 4 600 g/m²	Ca. 630 g/m²	Ca. 7.8 mm	Ca. 4.3 mm	Ca. 0.146 g/cm³	Ca. 225 000 /m²	

Overview technical data per product – CUT PILE

14	Page 46	CAMBRIDGE	Tufted 1/10" Frisé	100% PA 6.6 Antron®	Ca. 1050 g/m²	Ca. 4 650 g/m²	Ca. 728 g/m²	Ca. 8.0 mm	Ca. 5.0 mm	Ca. 0.146 g/cm³	Ca. 181 102 /m²	
52	Page 174	GLEAM	Tufted 1/10" Cutpile Frisé	ECONYL® Yarn 100% Regenerated Solution Dyed Nylon + PA 6	Ca. 1 300 g/m²	Ca. 5 150 g/m²	Ca. 1 045 g/m²	Ca. 9.5 mm	Ca. 6.2 mm	Ca. 0,169 g/cm³	Ca. 164 000 /m²	

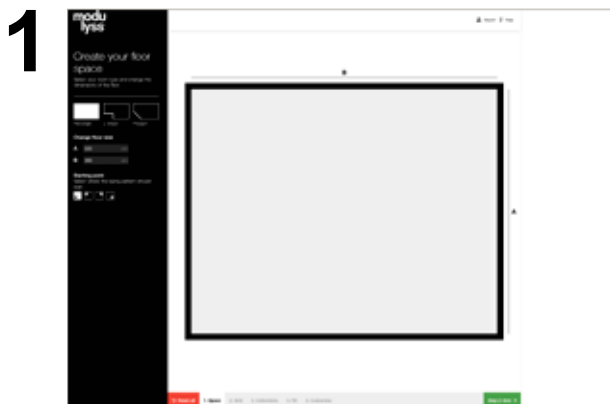
	CLASS EN 1307	FIRE CLASS	THERMAL RESISTANCE	ΔL 1 000 Hz	ΔL_w (dB)	α_w (H)							
	31-LC1	C _{fl} -s1	0.045 m² K/W	39	26	0.20	■		■	■	■		
	31-LC1	C _{fl} -s1	0.045 m² K/W	39	26	0.20	■		■	■	■		
	33-LC1	B _{fl} -s1	0.036 m² K/W	35	23	0.15	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.036 m² K/W	35	23	0.15	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.048 m² K/W	11	16	0.15	■	■			■		
	33-LC1	B _{fl} -s1	0.048 m² K/W	11	16	0.15	■	■			■		
	33-LC1	B _{fl} -s1	0.063 m² K/W	32	23	0.15	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.063 m² K/W	32	23	0.15	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.063 m² K/W	32	23	0.15	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0.057 m² K/W	38	27	0.20	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0.065 m² K/W	37	24	0.15	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.040 m² K/W	36	24	0.15	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0,059 m² K/W	40	24	0.15	■	■	■	■	■		
	33-LC1	B _{fl} -s1	0.053 m² K/W	33	24	0.15	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0,070 m² K/W		24	0.15	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0,094 m² K/W		25	0.15	■	■	■	■	■		
	33-LC2	B _{fl} -s1	0.086 m² K/W	36	27	0.15	■	■	■	■	■		
	32-LC3	B _{fl} -s1	0.071 m² K/W	43	28	0.20	■	■	■	■			
	33-LC5	B _{fl} -s1	0,107 m² K/W	51	31	0.20	■	■	■	■			

Get started with the modulyss designer.

186

Creating your own floor design is easy with our user-friendly modulyss designer.

It only takes **5 simple steps!**



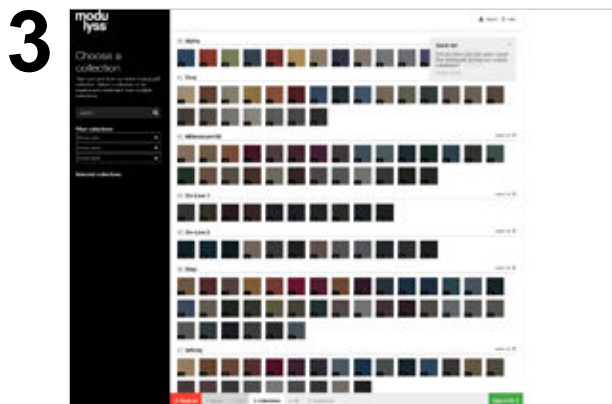
Space

Create your own floor space. Select your room type and change the dimensions.



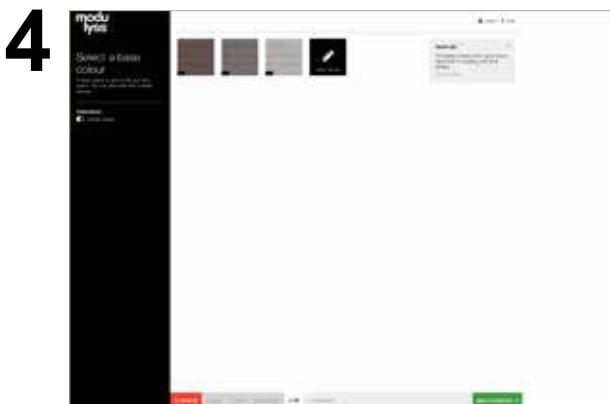
Grid

Choose from a wide range of grids. The grid defines how the carpet tiles are installed.



Collections

Choose from our entire collection. You can mix & match tiles from one or multiple collections.



Fill

Fill your floor space with a base colour or start with a blank canvas.



Customise

Change colours, add details, make patterns or randomly fill your space with the randomise option.

designer.modulyss.com



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