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## ALPHA

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3



LRV 3 L 19

553



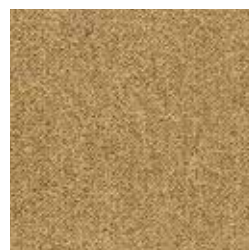
LRV 4 L 24

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

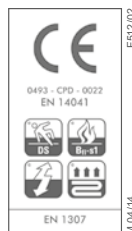
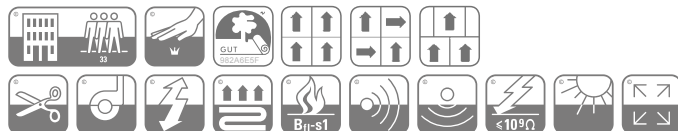
991

# ALPHA

## 4

### Technical datasheet

CONSTRUCTION	Tufted 1/10" Loop	FIRE RESISTANCE	EN 13501-1 B <sub>fl</sub> -s1
PILE MATERIAL	100% PA 6 Solution 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. 4 300 g/m <sup>2</sup>	COLOUR FASTNESS TO WATER	EN ISO 105-E01 ≥ 4
PILE WEIGHT	Ca. 500 g/m <sup>2</sup>	THERMAL RESISTANCE	ISO 8302 0.067 m <sup>2</sup> K/W
PILE ABOVE BACKING	Ca. 302 g/m <sup>2</sup>	IMPACT NOISE RATING	ISO 10140 ΔL: 30 dB (1 000 Hz)
TOTAL HEIGHT	Ca. 5.8 mm	SOUND ABSORPTION	ISO 354 Hz    125    250    500    1000    2000    4000 α <sub>s</sub> 0.04    0.03    0.07    0.15    0.29    0.32
PILE HEIGHT	Ca. 2.6 mm	PERMANENT ANTISTATIC	ISO 6356 ≤ 2 kV
PILE DENSITY	Ca. 0.116 g/cm <sup>3</sup>	TRANSVERSAL RESISTANCE	ISO/DIS 10965 ≤ 10 <sup>3</sup> Ohm
TUFT DENSITY	Ca. 171 600 /m <sup>2</sup>	SIZE & PACKING	50 cm x 50 cm box: 5 m <sup>2</sup> 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. 0.2%
DONNÉES ENVIRONNEMENTALES	Démarche HQE®: cf. FDES suivant NF P01-010 Déclaration du 30/07/2003	GUT-NR LEED	982A6E5F Product contributes toward satisfying Credit 4.3 under LEED®. 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 <a href="http://www.usgbc.org/contact">www.usgbc.org/contact</a> .



## Sustainable datasheet

### 1. RECYCLED CONTENT

- 54% Overall recycled content.
- Yarn  
100% PA 6 Solution Dyed
- Primary Backing  
Colback SMR is produced out 100% post-consumer recycled PET, originated from bottle scrap.
- 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.

### 2. PRODUCTION SITE

modulyss® centers all activity on 1 single production site (Zelev, Belgium), this allows us to reduce internal transportation and limits our CO<sub>2</sub> emissions drastically.

- Our production site is ISO-9001 (Quality Management) certified since 2000 and ISO-14001 (Environmental Management) since 2009.
- modulyss® works in accordance with ISO26000 and publishes a Corporate Social Responsibility report in line with the GRI guidelines.

### 3. INSTALLATION

- Adhesive  
modulyss® advises to use a solvent-free, easy release system with very low emissions.
- 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 to +/- 10%.

### 4. END OF LIFE

- Re-use  
At the end of life, after cleaning, carpet tiles can be re-used in non-critical areas, to extend the product life.
- Recycling  
Carpet tiles can be used as raw material for the backing of new carpet tiles in our back2back program.
- CARE  
Partnership modulyss®/Vanheede Environment Group in which carpet tiles are converted into secondary fuel to reduce CO<sub>2</sub> 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:

- DIBT (DE)  
Deutsche Institute für BauTechnik  
TVOC28<1.0 mg/m<sup>3</sup>  
This product is DIBT-certified, Abz-nummer Z-156.601-604.
- CRI (US and international)  
Carpet & Rug Institute  
Compliant to the requirements of Green Label Plus, GLP 1100 (see LEED®, point 6.b)
- GUT (DE)  
Gemeinschaft Umwelfreundlicher Teppichboden  
TVOC28<100 µg/m<sup>3</sup>  
This product meets the GUT-criteria, GUT-license number 982A6E5F. These criteria include VOC thresholds, odour and chemical substances.
- REACH (EU)  
modulyss® complies with the strict European REACH standards.

- Living Building Challenge Red List & US EPA Chemicals Concern List (US)  
modulyss® has obtained declarations from all of our suppliers that the materials supplied do not contain any of the substances listed, nor is any of these substances added to our production process.
- 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.

### 6. LIFE CYCLE ANALYSIS & COMPLIANCE TO GREEN BUILDING CERTIFICATIONS

- 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 internal 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 30 decibels (ΔL: 1 000 Hz - 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 Alpha but please note that a similar product has obtained an Ecopoint score of 0.295 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.

- LEED® (US and international)  
Leadership in Energy and Environmental Design  
This product can contribute towards satisfying IEQ Credit 4.1 (low emitting materials – adhesives & sealants), IEQ 4.3 (low emitting – flooring systems), MR Credit 4 (recycled content) and MR Credit 5 (recycled materials). 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](http://www.usgbc.org/contact).  
Total MR4 recycled content: 27.9%  
MR4 Post-Industrial recycled content: 53%  
MR4 Post-Consumer recycled content: 1.4%
- HQE (FR)  
Haute Qualité Environnementale  
In 2005 modulyss® was awarded the HEQ certificate by FDES in accordance with NF P01 010. This product can contribute to seven of the 13 HEQ targets as follows:

Eco-Construction	MOQUETTES FDES
Harmonious relation between buildings and their immediate environment	
Integrated choice of products and construction materials	T2
Low site nuisance	T3
Eco-Management	MOQUETTES FDES
Management of energy	
Management of water	
Management of waste caused by activities	
Management of servicing and maintenance	
Comfort	MOQUETTES FDES
Hygrometric comfort	
Acoustic comfort	T9
Visual comfort	T10
No unpleasant smells	T11
Healthy	MOQUETTES FDES
Sanitary quality of areas	T12
Sanitary air quality	T13

### 7. GREEN ENERGY

The electricity that we use at modulyss® is 100% 'green electricity' generated from renewable sources:

- In February 2010, modulyss® put its new solar panels into operation. The park has a capacity of 467500kWh, delivering 11% of our total electricity consumption.
- The remaining 89% originates from Green Energy purchases.

### 8. PRODUCTION PROCESS

- H<sub>2</sub>O  
modulyss® reduced the water consumption for the carpet tile production with 46% since 2008; we only use rain water in production.
- Electricity savings  
Through a variety of measures, we have succeeded in reducing our electricity consumption by 17% since 2008.
- Gas  
Through intensive investments, we have reduced our own consumption of natural gas by 24% since 2008.
- Steam  
Through the optimization of our processes, the volume of steam needed for production processes has been reduced by 23%.
- Recycling raw yarns  
All the left overs and waste yarns are collected and recycled into new yarns.
- Ecological Packaging  
We only use cardboard boxes that are made of 100% recycled material.
- Waste Reduction  
Compared to 2008 we have reduced the amount of residual yarns by 9% and the amount of cutting waste by 12%.

### 9. HEALTH & COMFORT

- Solvent-free Bitume  
For the bitumebacking we only use bitumen that is not oxidized and is solvent-free.
- No heavy metals  
modulyss® carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.
- Odour  
modulyss® carpet tiles are free from odours. (see GUT certification program)
- Acoustics  
This product is strongly sound absorbent. It reduces the contact noise by 30 decibels (ΔL: 1 000 Hz - ISO 10140), with a perfect acoustic effect as result.

### 10. LIGHT REFLECTANCE VALUE

Go to page 3 for the light reflectance value (LRV) and colour depth (L) per colour of this collection.