

## FIRST FORWARD ecoBack

### 1. Recycled Content

- a. 45,6% Overall recycled content
- b. Yarn  
100% PA6 Solution Dyed Nylon
- c. Backing – ecoBack  
Fully recyclable polyolefin based carpet tile backing. It consists of a polyolefin-based layer with a minimum of 75% recycled content.

### 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 uses the UN's Sustainable Development Goals (SDGs) as its guideline for sustainable reporting. With our products and collaborations we have a positive impact on the following SDGs:

#### Products & operations



#### Collaborations & value chain



#### 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. 15 year warranty

We guarantee for a period of 15 years that our carpet tiles are free of faults of production and/or premature wear.

### 5. 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

ecoBack has the potential to be recycled, this product is developed and manufactured for disassembly. Conform with the Cradle to Cradle standard's well defined nutrient management strategy, a 2 year actionplan is applicable:

- to find a technical solution to re-utilize the raw materials
- for developing the logistics and recovery systems

### 6. 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 100205 (see LEED®, point 9.b)

#### b. GUT (DE)

Gemeinschaft Umweltfreundlicher Teppichboden

TVOC<sub>28</sub> < 100 µg/m<sup>3</sup>

This product meets the GUT-criteria, GUT-license number is in request. These criteria include VOC thresholds, odour and chemical substances.

#### c. REACH (EU)

modulyss® complies with the strict European REACH standards.

#### d. 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. The M1 certification for the ecoBack backing is in request.



## 7. Cradle to Cradle Certified™

Our ecoBack backing is Cradle to Cradle Certified™ at the Gold level.

Cradle to Cradle Certified™ is a globally recognized independent standard for safer, more sustainable products made for the circular economy. In order to become Cradle to Cradle Certified™, our products were assessed for environmental and social performance across five categories: material health, material reutilization, renewable energy & carbon management, water stewardship and social fairness. A product receives an achievement level in each category - Basic, Bronze, Silver, Gold or Platinum - with the lowest achievement level representing the product's overall mark.

Cradle to Cradle Certified Product Scorecard	
MATERIAL HEALTH	Platinum
MATERIAL REUTILIZATION	Gold
RENEWABLE ENERGY & CARBON MANAGEMENT	Gold
WATER STEWARDSHIP	Gold
SOCIAL FAIRNESS	Gold
OVERALL CERTIFICATION LEVEL	Gold

## 8. 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 available for this product.

The EPD-declaration-number is in request.

## 9. Compliance to Green Building Certifications

### a. BREEAM (UK)

Building Research Establishment

This product can contribute towards credits in:

MAN 02:	Life Cycle cost and service life planning
HEA 02:	Indoor Air Quality
HEA 04:	Thermal Comfort
HEA 05:	Acoustic performance
MAT 01:	Life Cycle Impact
MAT 02:	Environmental Product Declarations
MAT 03:	Responsible sourcing of materials
MAT 05:	Designing for Robustness / durability and resilience
MAT 06:	Material Efficiency
WST 01:	Construction Waste Management
WST 04:	Speculative floor and ceiling finishes
WST 06:	Design for disassembly and adaptability

## b. U.S. Green Building Council's LEED green building program (US and international)

Leadership in Energy and Environmental Design

modulyss products can contribute to the following LEED v4 credits:

- SS credit: Tenant Design and Construction Guidelines
- 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: 45,6%
  - 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: 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](http://www.usgbc.org/contact)

## c. WELL contribution

WELL focuses on people and prioritises the health and wellbeing of the end-user in a building. modulyss products can contribute towards credits in indoor air quality, acoustics, toxic materials, biophilic design, optimal lighting design, ...

- |                                  |                                 |
|----------------------------------|---------------------------------|
| ■ 01 Air Quality Standards       | ■ 54 Circadian Lightning Design |
| ■ 04 VOC Reduction               | ■ 78 Reverberation Time         |
| ■ 11 Fundamental Material Safety | ■ 87 Beauty & Design            |
| ■ 25 Toxic Material Reduction    | ■ 88 Biophilia I - Qualitative  |
| ■ 28 Cleanable Environment       | ■ 97 Material Transparency      |

## 10. Health & Comfort

### a. Platinum material health assessed product

As a result of the materials health assessment, the ecoBack backing has the highest possible score: platinum level.

### b. No heavy metals

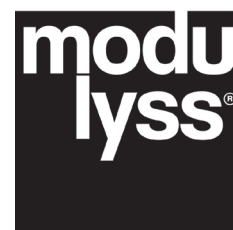
modulyss carpet tiles are free of heavy metals and other harmful substances, such as lead, mercury or chromium.

### 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 ( $\Delta L_w$  - ISO10140), with a perfect acoustic effect as result.



## 11. Partnerships

### 11.1 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.

### 11.2 CO<sub>2</sub>RE

At modulyss we've been working to reduce our carbon footprint since 2008, taking huge steps in making our products and production process less impactful on the planet. But when producing carpet tiles, there is an unavoidable small footprint left behind. That's why we created CO<sub>2</sub>RE, our CO<sub>2</sub> reduction initiative through offset. We've partnered with CO<sub>2</sub> logic, to make sure CO<sub>2</sub>RE delivers a long-term sustainable model for our offsetting. We currently sponsor a climate project that is in line with the PAS2060, an international standard which regulates the CO<sub>2</sub> offset-requirements.

CO<sub>2</sub>RE comes as standard on all Cradle to Cradle Gold or Silver certified products - Moss, Leaf, Willow, Grind, Millennium Nxtgen, Txture x Mxture, Dusk & Dawn - and is available on request on all other modulyss carpet tile collections.

