

# INSTALLATION OF CARPET TILES

modulyss® carpet tiles are available in different colours, structures and designs. The creative possibilities are consequently limitless. For optimal results, however, a correct installation of the carpet tiles is an absolute must. So follow the installation instructions carefully.

One of the most important advantages of modulyss® carpet tiles is the ease and flexibility with which they can be installed or replaced. Installing carpet tiles moreover means savings in costs thanks to the smaller cutting loss by comparison with fitted carpets or other floor covering.

## Preparation

### Packaging

A pallet comprises 20 cases. Each case contains 5 m<sup>2</sup> of carpet tiles. Place the cases on a flat surface in the room where the carpet is to be installed. Open the cases on the top or on the side and leave the tiles for at least 24 hours to get acclimatised.

### Inspection

The quality, colour and batch number are mentioned on each case. This information, together with the arrow that indicates the pile direction can be found on the backside of each carpet tile. For an even result, it is very important to use tiles from the same batch in one and the same room. You must therefore always check the material delivered before proceeding to install the tiles.

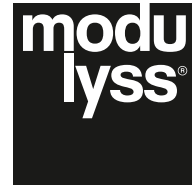
### Environmental conditions

Whilst waiting to install them, store the tiles in a closed room where the temperature is between 15°C and 25°C and the relative humidity  $\pm$  60 %.

### Substrate

modulyss® carpet tiles can be installed on every floor provided that it is dry, clean, greaseproof, sturdy and even. Residues of previous floor covering must be removed.

The substrate must be stabilised and dry and must comply with the requirements of the national construction standards and requirements. The temperature of the substrate must be between 10°C and 25°C, and the humidity may not exceed 5%.



## INSTALLATION OF CARPET TILES (CONT')

### Underfloor heating

In a room with underfloor heating, the underfloor heating system must be switched off at least 24 hours before the carpet is installed. It can then be gradually brought back up to temperature ( $\pm 5^{\circ}\text{C/day}$ ), 48 hours after the carpet tiles are installed. Make sure that the heating circuit is completely waterproof.

### Standard Construction Installation

(See Minituft Construction Installation details in section 03)

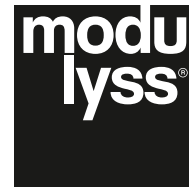
### Installation

All carpet tiles are made so as to be installed separately.

No permanent gluing is needed to install the carpet tiles, so we recommend that an anti-slip or semi-permanent glue be used. These types of glue have a lasting, non-hardening adhesive effect once they dry.

Make sure that the carpet tiles are installed tightly against each other; the backing must fit closely and the piles may not be squeezed. If the carpet tiles are pressed too tightly, lumps and warps can occur.

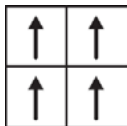
It is best to start from the door opening when installing the floor. A complete tile is installed at the door opening, continuing further until the middle of the room, in parallel with the main wall. This midpoint serves as the point of departure for the subsequent step-by-step installation of the tiles.



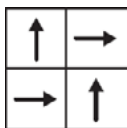
## INSTALLATION OF CARPET TILES (CONT')

### Pile direction

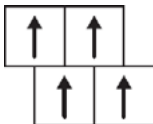
An arrow on the backside of the tile indicates the pile direction, and can be used to install the product in different ways:



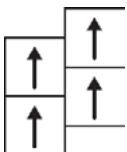
**One way**  
The carpet tiles are installed in the same direction to create a uniform floor covering



**Draughtboard**  
The arrow on the back side of the carpet tiles is alternately turned 90°

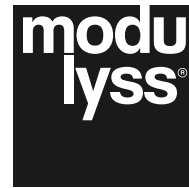


**Half brick**  
Each tile is horizontally shifted half a row so that 4 corner points never coincide.



**Ashlar**  
Each tile is horizontally shifted half a row so that 4 corner points never coincide.

The technical data sheet indicates which installation possibilities apply for the product concerned.

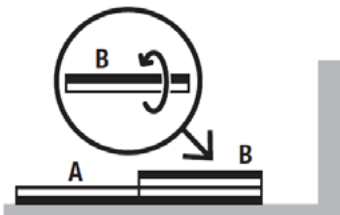


## INSTALLATION OF CARPET TILES (CONT')

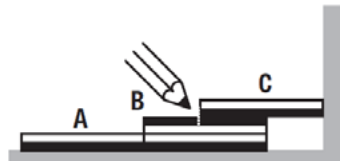
### Cutting the tiles

To finish the room, the carpet tiles will in most cases have to be cut to measure by means of a Stanley cutter knife. Carpet tiles are cut on the backing.

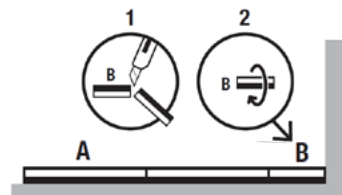
Place Tile B to be cut precisely on Tile A.



Push the latter up to the wall over Tile B.



Now indicate on Tile B where you have to cut. Finally, install the cut Tile B in the space between the wall and Tile A.



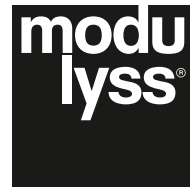
### Floor protection after installation

Make sure that the floor covering just installed is sufficiently protected if the room still has to be used by other workers. So do not place any furniture on the floor during the installation. Move heavy furniture on hardboard plates to prevent the carpet from getting damaged.

### Conditions

A maximum of 100 m<sup>2</sup> can be installed in advance for each installation for assessment purposes. If a party concerned should report any deviation from the original specifications and/or a production error is detected, modulyss® must be informed before proceeding with the further installation of the carpet tiles.

The modulyss® guarantee may no longer apply if the installation instructions are not followed. modulyss® shall not be held liable for errors resulting from unprofessional installation. The guarantee shall apply only if the carpet is used under normal circumstances (correct installation and maintenance).



# INSTALLATION OF MINITUFT TILES

## Minituft Construction Installation

The minituft 'flatweave' family of products (which includes **Opposite, Opposite Lines, Grind, Blaze, etc**) - provide a clean minimalist aesthetic. However, due to the flatweave structure of these products, greater attention to detail is required during installation to achieve a perfect finish. Loop pile and multilevel loop pile products disguise many imperfections of the floor substrate and of the normal 'tolerances' acceptable with carpet tile during installation, however flatweave products, by nature of their structure are challenging. **modulyss mini-tuft tiles must be installed with accuracy and require tight abutting against each installed tile.**

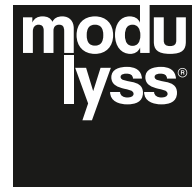
### Subfloor Level Tolerances

If the tiles are being installed directly onto concrete slab, then the floor needs to be checked in accordance with AS 3610 before installation. Surface pH - the concrete must be tested for surface pH at several random points throughout the floor. The pH range necessary is 5 - 9. Otherwise, corrective action is required. Moisture - the concrete must be tested for moisture in accordance with AS/NZ 2455.1:2007.

### General

modulyss carpet tiles can be installed on any floor provided that it is dry, free of defects, clean, greaseproof, solvent free, sturdy and even. Residues of previous floorcoverings or adhesives must be removed.

The temperature of the substrate must be between 15°C and 25°C, and the humidity may not exceed 3% (standard CM measurement method) or 5% (measurement method by means of a Protimeter).



# INSTALLATION OF MINITUFT TILES (CONT')

The subfloor is required to be stable and level to ensure that no irregularities are shown through the surface of the finished floor after installation and must comply with the TV 262 (WTCB) standard. Unevenness of the subfloor must not be greater than 3mm measured over a width of 200cm.

## Installation on access panel floors

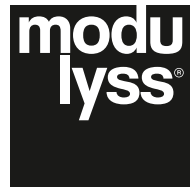
If the carpet tiles are being installed on access panel floors, this requires the floor to be checked to be true and square, and constructed and installed in accordance with the TV 262 (WTCB) standard.

## Installation on concrete slab

If the carpet tiles are being installed directly onto concrete slab, the floor needs to be checked in accordance with the TV 262 (WTCB) standard before installation. Additionally, the surface pH and moisture of the concrete subfloor must be tested.

Surface pH: the concrete must be tested for surface pH at several random points throughout the floor. The pH range must be with 5 – 9pH. Otherwise, corrective action is required. Moisture: the concrete must be tested for moisture and meet the following requirements:

- Unheated concrete subfloors: less than 2.0 CM% - 75% rH (UK)
- Underfloor heated concrete subfloors: less than 1.8 CM% - 75% rH (UK)



# INSTALLATION OF MINITUFT TILES (CONT')

## Installation

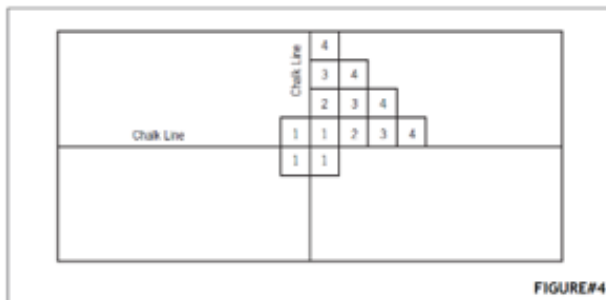
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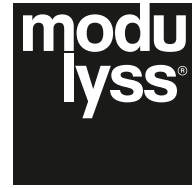
No permanent gluing is needed to install the carpet tiles, so we recommend that an anti-slip or semi-permanent glue be used. These types of glue have a lasting, non-hardening adhesive effect once they dry.

**modulyss mini-tuft tiles must be installed with accuracy and require tight abutting against each installed tile.**

## Start Installation from a Centre Point

Installing Carpet Tiles: Measure the area to find the best starting point for a maximum size perimeter tile. Proper planning should avoid trimming perimeter tiles more than half their width. Next, divide the room into 4 quadrants by snapping chalk lines on the floor from the center of each opposing wall. The two center lines must bisect at right angles in the center of the room. Using the chalk lines as your guide, begin laying the carpet tiles using the pyramid technique





# INSTALLATION OF MINITUFT TILES (CONT')

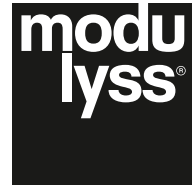
## Tile Size Tolerances (Squareness of Tiles)

All modulyss carpet tile are tested to the norm (EN994) and the requirements within EN 1307.

Characteristics	Test method	Non adhered tile (Loose laid)	Adhered tile	
			Removable	Permanent
Total mass of individual tile	ISO 8543	≥ 0,875 kg	≥ 0,500 kg	No requirement
Total mass per unit area (m <sup>2</sup> )	ISO 8543	≥ 3,500 kg	≥ 2,000 kg	No requirement
Dimensions	EN 994	± 0.20 % in the same batch		
Squareness and straightness of edges	EN 994	± 0.15 % in both directions		
Dimensional stability*	EN 986	Shrinkage and extension ≤ 0,2 % in both directions	Shrinkage ≤ 0,4 % in both directions Extension ≤ 0,2 % in both directions	
Distortion out of plane	EN 986	Max deviation of any part of the sample from its plane ≤ 2mm	No requirement	
Damage at edge (fraying)	EN 1814	No damage		
*For all flocked carpet tiles class 32/33: Shrinkage and extension in both directions ≤ 0,1 %				

Allowable variances in “dimensions” – or tolerances - are rarely noticed in loop pile and multilevel loop pile, but with flatweave structures this tolerance can be visible. When installing the carpet tiles, ensure that they are abutted. To ensure correct abutment is correct, measure carpet tiles after every 10 modules are fitted. Correct/adjust at all times in accordance with the carpet tile.





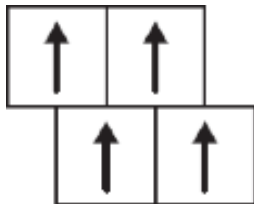
# INSTALLATION OF MINITUFT TILES (CONT')

## Pile direction

An arrow on the backside of the tile indicates the pile direction.

**For example, the recommended installation of GRIND is BRICK**

Each tile is horizontally shifted half a row so that 4 corner points never coincide. The technical data sheet indicates which installation possibilities apply for the product concerned.



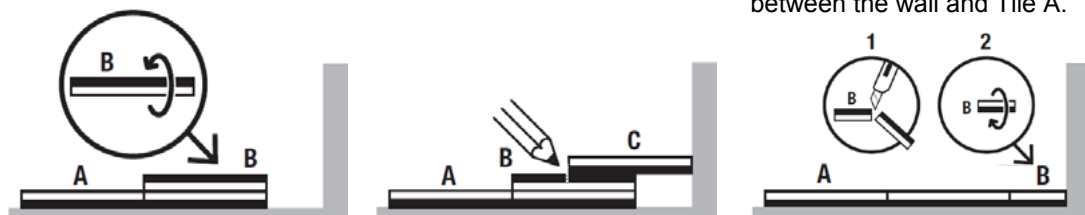
## Cutting the tiles

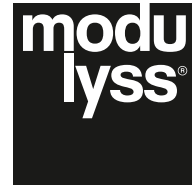
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## INSTALLATION OF MINITUFT TILES (CONT')

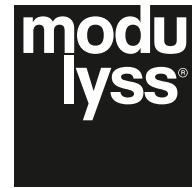
### Floor protection after installation

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# RECOMMENDED ADHESIVE FOR INSTALLATION OF MODULYSS CARPET TILES

***Please note: The following adhesive is recommended for installation of modulyss carpet tiles.***

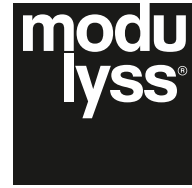
Modu-Tak Pressure Sensitive Adhesive -  
15ltr Low VOC adhesive with Antimicrobial.  
(Consumption - Please see Data Sheet)



National distributors:

**Gibbon Group Trade Depot**  
14 Moonbi Street  
Brendale QLD 4500  
Australia  
[gibbongroup.com.au](http://gibbongroup.com.au)

**(07) 3881 1777**  
[sales@gibbongroup.com.au](mailto:sales@gibbongroup.com.au)



# MODU-TAK PRESSURE SENSITIVE ADHESIVE

## Description

**Modu-Tak** is a pressure sensitive type adhesive that exhibits high levels of resistance to concrete substrates that exhibit high levels of alkalinity - up to pH 12.

## Directions for use

Floors must be clean, dry, sound and smooth in accordance with AS 2455.1.2007 & AS 2455.2.2007 and free from paint, dirt, dust and any other deleterious materials. When adhering to highly absorbent concrete sub floors, the use of a suitable Floor Primer is strongly recommended. **Modu-Tak** Adhesive can be applied to concrete substrates with moisture contents up to 85% relative humidity and falling when testing with In-Situ probe method. For concrete substrates with Hydrostatic Pressure we recommend a suitable 2 part epoxy membrane must be used.

## Application

**Modu-Tak** Adhesive should be applied with one of the following methods. A 'V1' 1.6mm x 1.6mm notched trowel to the sub-floor for textured and/or fibre backed carpet tiles. Use a long nap roller when installing smooth backed carpet tiles like PVC or Bitumen.

Allow **Modu-Tak** Adhesive film to clear. Once clear, the adhesive is in a dry tack mode and floor covering may be placed in position. Tack up time will be dependent upon room temperature, humidity, airflow and the substrate absorbency. Always ensure no contaminants come in contact with adhesive film prior to installing carpet tiles.

## Application Rate

Coverage is approx. 7 - 10 sqm per litre by long nap roller. Coverage approx 5 sqm per litre by V1 notched trowel. Complete the installation according to the AS 2455.2.2007 and floorcovering manufacturers installation instructions including rolling of floor-coverings on completion.

## Storage

**Modu-Tak** Adhesive should be stored between 10°C and 30°C in well ventilated areas. Shelf life is 12 months in sealed container.

## Clean Up

**Modu-Tak** Adhesive should be cleaned off any surface and tools immediately with a well dampened cloth. Do not allow to dry. Dried adhesive on tools may be softened using a suitable solvent cleaner. Solvent cleaners are not suitable for use on floorcoverings or finished surfaces.

**Note: Always carry out your own site test to confirm suitability of this product with your application. Additional information on physical properties, health hazards, storage, handling and transport is available in the Material Safety Data Sheet (MSDS), available on request.**