



# AU | **modulyss**

## CARPET TILE & MINITUFT TILE

### Contents:

- Installation Instructions

## 01

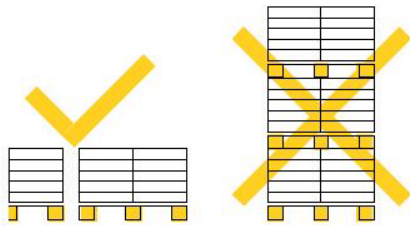
# BEFORE YOU START

modulyss® carpet tiles are available in different colours, structures and patterns. As a result, the creative possibilities are endless. For optimal results, however, a correct installation of the carpet tiles is an absolute must, so please follow these installation instructions carefully.

## Storing the tiles

If you are not installing the tiles immediately, store them in a closed room where the temperature is between 18°C and 28°C.

A pallet comprises 20 cases. Do not stack more than 2 pallets or 10 boxes on top of each other, this is to avoid pile crushing. The boxes must be stored neatly at all times.



## Acclimatisation

Prior to installation, all boxes should be placed on a flat surface in the room where the installation will take place. Remove the packaging, then open the boxes at the top or side and let the tiles acclimatize for at least 24 hours. The room temperature should be between 18°C and 28°C and the relative humidity should be between 30% and 65%.



## Inspection

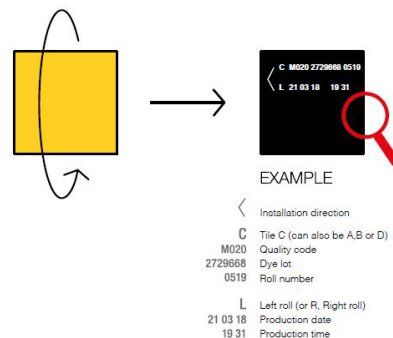
The product name, colour number and dye lot number are mentioned on each box.



1. Collection
2. Quality code
3. Colour number
4. Article number
5. Dye lot

This information, together with the arrow that indicates the pile direction can be found on the **back of each carpet tile**.

To guarantee an even result, it is very important to use tiles from the same dye lot in the same room. Therefore, always check the supplied material before starting the installation.



## 02

HOW TO  
PREPARE THE  
SUBFLOOR**Substrate**

For an easy and successful installation, all conditions as described in this section have to be carried out properly. Any deviation could result in an undesired end result and invalidate the warranty. We highly recommend postponing the installation of the tiles until all other works in the space are finished. This is to avoid damage and contamination.

For the dimensional stability of the carpet tiles please adhere to the Australian Standards for properly prepared subfloors as per AS 2455.1:2019.

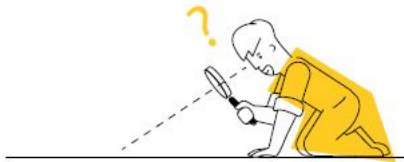
Modulyss or Gibbon Architectural are not responsible for any failure of a modulyss product which is caused through moisture related issues, poor or incorrect floor preparation, incorrect installation techniques (including adherence to the building regulations regarding the use of expansion joints) or any other failures which arise through the installer not following these instructions in conjunction with Australian Standards.

Full Sub Floor Preparation including moisture and alkalinity checks available in the document [here](#).

Or scan the below QR code to view :



Or contact [Gibbon Architectural](#) for direction.

**STEP I.****Identify the  
substrate type**

modulyss® carpet tiles can be installed on any subfloor provided that it is dry, clean, grease-free, firm, stable and flat. Residues of previous floor covering must be removed. These general conditions must be respected regardless of the subfloor type.

**Cement-based**

A concrete subfloor must be level, clean and dry. If the surface is granular or porous, a primer should be applied. This primer must be compatible with the chosen adhesive. Please follow the adhesive manufacturer's recommendations instructions.

Additionally, the pH and moisture RH% of the concrete subfloor must be tested – see subfloor preparation for modulyss tiles [here](#).

**Wood**

Installing your carpet tiles on a wooden subfloor such as plywood, chipboard, MDF or hard-board is possible. However, you must always keep an eye on the indoor climate because there is a risk of deformation from moisture or overload. A load of 75kg distributed over 20cm should not result in deformation of the floor surface. Uneven floorboards must be carefully sanded and levelled to avoid any risk of imprints being seen through the tiles. Wood block floors should be smooth, sound and securely bonded.

If the wooden subfloor is in poor condition and very uneven, we recommend replacing it.

**Absorbent subfloor**

If the subfloor is highly absorbent, a primer must be applied. Brushing the substrate with a wet brush will help determine the degree of absorption: the faster the water disappears, the higher the substrate's absorbency. To know which type of primer you should use can be determined by testing how quickly the water disappears. Please follow the primer manufacturer's instructions.

**Raised flooring systems**

If the carpet tiles are being installed on raised access floor systems, the subfloor needs to be stable and even. Height differences between the panels may not exceed 1mm. When installing the carpet tiles, please ensure that the seams of the carpet tiles are offset with the seams of the raised floor.

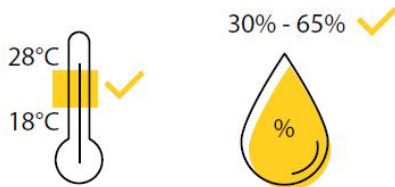
**Carpet Underlay**

A carpet (underlay) cannot be used as a subfloor because it does not have the right properties.

**NOTE:** When you are dealing with a different type of subfloor that is not mentioned above or if in doubt, contact Gibbon Architectural for advice and technical assistance.

## STEP 2.

### Check the conditions



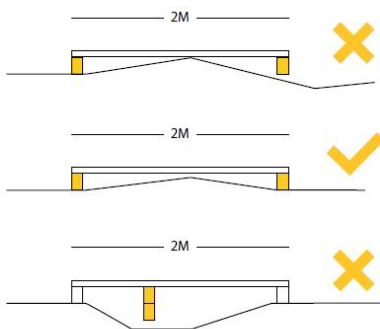
The subfloor must be stable, plane and dry in accordance with the requirements of AS 2455.1:2019. Before the installation can start, the following conditions must be respected:

The ambient temperature should be between 18 °C and 28°C and the subfloor should have a minimum temperature of 18°C. The relative humidity should be between 30% and 65%. These conditions must be respected 48 hours before installation, during installation and 72 hours after completion.

## STEP 3.

### Level the subfloor

Any cracks, tears or irregularities in the subfloor must be patched and levelled and allowed to dry to ensure the subfloor is flat, plane and smooth.



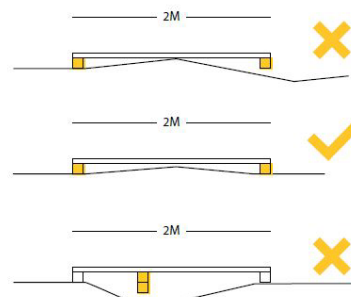
1. Fixed block with a thickness equal to the permissible deviation
2. Batten with a length of 2 m
3. Separate block twice as thick as the fixed blocks

Any unevenness must not be larger than **3mm measured over a length of 2.0m**. Measured over a length of 0.2m, the maximum permissible deviation is 1mm. The permitted deviation is even lower for mini-tuft carpet tiles.

### Level the subfloor – Minituft tiles

Modulyss has several minituft carpet tile collections eg. Opposite, Grind and Blaze. With their low profile structure, minituft carpet tiles provide a clean minimalist look. However, due to this structure, more attention to detail is required during the installation to achieve a perfect finish.

A solid subfloor is of the utmost importance for these collections. Minituft carpet tiles do not have a pile, which means any unevenness is immediately visible when the tiles are installed.



1. Fixed block with a thickness equal to the permissible deviation
2. Batten with a length of 2 m
3. Separate block twice as thick as the fixed blocks

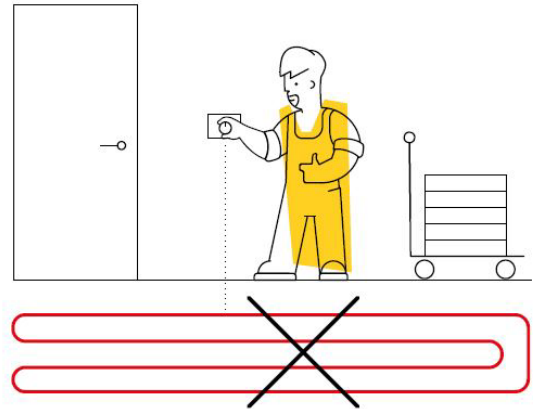
As a result, the unevenness of the subfloor for minituft carpet tiles must **not be larger than 1.5mm measured over a length of 2.0m**. Measured over a length of 0.2m, the maximum permissible deviation is 0.5mm

## STEP 4.

### 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. Moreover, the underfloor heating system should be operational for at least 10 days prior to installation to ensure all residual moisture has evaporated.

48 hours after installation, the underfloor heating system can be gradually brought back up to temperature ( $\pm 5^{\circ}\text{C}/\text{day}$ ), until it reaches standard operating temperature condition with a maximum of  $27^{\circ}\text{C}$  on the back of the carpet tiles. Make sure that the heating circuit is completely waterproof.



## STEP 5.

### Check moisture content

At the moment there is no adhesive capable of gluing a textile floor covering to a (permanently) damp subfloor. Before installing modulyss carpet tiles, the substrate must be permanently dry.

The relative humidity of the ambient air should be between 30% and 65%.

It is generally recommended that the equilibrium moisture content of the wood be limited to 8% to 12%.

This table indicates the limit values of the permissible moisture content:

Type backing	Subfloor type	Allowed moisture content (*)	Relative humidity (**)
Water damp permeable	Cement-based	3 CM-%	75%
	Anhydrite-based	1 CM-%	75%

\* based on the Carbide method  
 \*\* surface relative humidity

# 03

## INSTALLING THE TILES



### Securing the carpet tiles

All carpet tiles are made to be installed separately. We do recommend an anti-slip, semi-permanent glue (pressure sensitive) or alternatively self-adhesive tabs can be used. In Australia, the recommended adhesive is Modu-Tak Pressure Sensitive Adhesive (see tech details below) which is designed to have a lasting, non-hardening adhesive effect once dry.

#### Flex Fitters

These self-adhesive tabs are an ideal alternative to the traditional adhesives used for installing carpet tiles. With practically no VOCs (Volatile Organic Compounds), this flexible method offers a sustainable solution. Extra information about the compatible products and how to install carpet tiles using Flex Fitters can be found [here](#).

#### Modu-Tak PS Adhesive (specified adhesive)

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.

#### Adhesive Surface Preparation

Floors must be clean, dry, sound, and smooth in accordance with AS 2455.1:2019 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 tested with In-Situ probe method. For concrete substrates with Hydrostatic Pressure we recommend a suitable 2-part epoxy membrane must be used.

#### Application

A “**VI**” **1.6mm x 1.6mm x 1.6mm** notched trowel to the sub-floor for Fibre-backed tiles – Modulyss ComfortBack.

A **Long Nap Roller** can be used when installing smooth backed carpet tiles like Modulyss Ecoback or back2back.

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 into contact with adhesive film prior to installing carpet tiles.



#### Application Rate

Coverage approx. 5m<sup>2</sup> per litre by VI notched trowel.

Coverage approx. 7-10m<sup>2</sup> per litre by long nap roller.

Complete the installation according to the AS 2455.2:2019 and floorcovering manufacturers installation instructions including rolling of floorcoverings on completion.

#### 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.

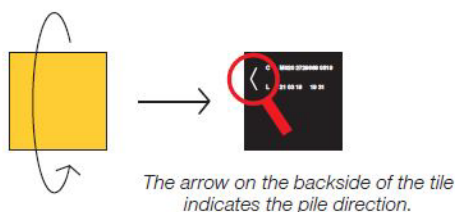
#### Storage

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

**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.

## Start installation from a centre point

For centre-point setout and general installation practice, please refer to **AS 2455.2:2019. Part2. Carpet Tile Installation Practice.**



When installation is complete the tiles should fit together tightly but they should not be compressed. If the tiles do not fit nicely, open seams can occur. If they are compressed too tightly, bows or domes may appear in the tiles.

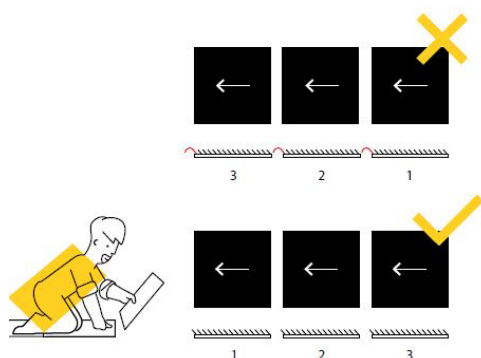
An additional check can be performed during the installation by measuring the length of 10 tiles that have no visible openings, bumps or overlaps. The size must be equal to 10 times the size of the tile (+/- 0.2%). If it is the case, you have installed the carpet tiles correctly.

## Installing other tile structures & patterns

### 1. Cut pile carpet tiles

As the name implies, carpet tiles with a cut pile have cut-through pile loops, providing a soft and luxurious look.

When installing these carpet tiles, ensure the pile does not get trapped between the seams of the tile. When installing cut pile products, such as Cambridge and Gleam, please pay attention to the detail below :



### 2. Pattern Repeat

The construction, pattern repeat or cutting of the tiles can result in an undesired visual end result. This can be easily adjusted by replacing the tile with another tile. For example, when 2 tiles with a stripe along the edge are paced next to

each other, you will see a thicker stripe. By replacing one of these tiles, you can avoid this visual effect.

### 3. Tip-sheared carpet tiles

Tip-sheared carpet tiles such as Fluid&, Velvet&, Txture, Alternative100, and Mxture, are constructed as a loop pile with different heights. When the carpet is sheared, the higher loops are cut, but the lower ones are not. This creates an alternating pattern of loop and cut piles. The varying pile heights can create a visible seam effect during installation. This can be improved by interchanging tiles.

### 4. Minituft carpet tiles

Minituft carpet tiles such as Blaze, Grind & Opposite require extra attention during installation. Due to the low-profile structure, open seams will be visible immediately. Therefore they require **tight abutting against each installed tile.**

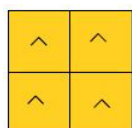
(Please refer to the specific Minituft installation & maintenance guidelines in this document)

NOTE : A thorough check of the seams should be carried out and adjusted by replacing the tiles with another tile if required.

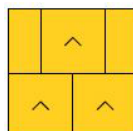
## Choosing an Installation method

There is an arrow on the backside of the carpet tile which **indicates the pile direction**, This is an aid for laying the product in different directions.  
Please note specific exclusions for Minituft ranges : BLAZE, GRIND, OPPOSITE.

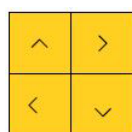
**Artcore Collection** contains 3 ranges which have Gradient tile patterns and can be rotated 180 degrees to suit specific floor design – refer to diagram below.



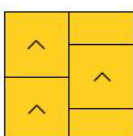
**Monolithic**  
Arrow on back of tiles installed in the **same direction**  
(**NOT MINITUFT TILE RANGES**)



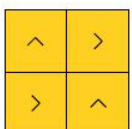
**Brick**  
All arrows point in same direction.  
Each tile shifted **half a row horizontally** so that 4 corner points never coincide.  
(**NOT MINITUFT RANGE: OPPOSITE**)



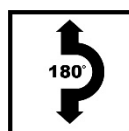
**Quarter Turn**  
Arrow on the back of tiles is **alternately turned 90°**



**Ashlar**  
All arrows point in same direction,  
Each tile is shifted **half a row vertically** so that 4 corner points never coincide.  
(**NOT MINITUFT RANGE: OPPOSITE**)



**Random**  
Tiles are **placed randomly** with no recurring pattern.  
(**NOT MINITUFT TILE RANGES**)



**Artcore Collection- Gradient tile**  
The Gradient patterns in Etch, Litho and Mezzo are able to be flipped 180 degrees to realign pattern in opposite direction,  
(**NOT MINITUFT RANGES**)

The technical data sheet for each carpet range appears on [Gibbon Architectural](https://www.gibbonarchitectural.com.au) website and indicates which installation methods are recommended for the carpet range in question. Please choose one of the recommended installation methods.

**A non-recommended installation method will invalidate the warranty.**

Note: Carpet tile seams will never be invisible, and are usually most visible immediately after installation. Seams (other than Minituft construction) become less and less visible with routine vacuuming and use.

# 04

## PROTECT YOUR FLOOR AFTER INSTALLATION

Please ensure that the installed floor covering is protected sufficiently if other workers are expected to enter the area.

Place heavy equipment on hardboard plates so the carpet does not get damaged.

Ensure that no temperature peaks occur during the 7 days following installation.

During the entire life of the carpet tiles, the limit values of 18°C and 28°C, and the relative humidity between 30% and 65%, should be retained.



# 05

## WARRANTY

### Trial Installation.

Prior to each installation, up to 100 m<sup>2</sup> can be installed in advance for assessment purposes.



If a party has complaints about a deviation from the original specifications and/or a manufacturing defect is discovered, **Gibbon Architectural** must be notified before further installation of the carpet tiles.

### 15 year warranty.

For the best results, the carpet tiles must be installed properly and cleaned regularly to ensure the warranty remains valid. The carpet tiles must be installed according to the modulyss installation instructions, and cleaned and maintained according to the modulyss carpet tile cleaning recommendations (\*)

If a claim is made against the warranty, a check will be carried out to ensure the carpet tiles have been installed and cleaned in accordance with our instructions. Modulyss cannot be held responsible for errors resulting from improper installation and/or cleaning and maintenance. Moreover this will result in the loss of the 15-year warranty.

Note : Carpet tile seams will never be invisible, and are usually most visible immediately after installation. Seams (other than Minituft construction) become less and less visible with routine vacuuming and use.

(\*) The latest version of the cleaning recommendation can be downloaded from [Gibbon Architectural](https://www.gibbonarchitectural.com.au) website.