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Acouflor Carpet Tiles
Installation Guide

It is recommended that installation contractors take the time to read this guide. The guide provides installation instructions for Acouflor products. Installation practices should be in accordance with AS 2455.1:2019 Textile floor coverings – Installation practice, Part 1: General and AS 2455.2:2019 Textile floor coverings – Installation practice, Part 2: Carpet Tiles. Failure to adhere to the installation guide methods may null and void the product warranty.

Before installation, ensure the product supplied is the correct specification, colour and order quantity. It is recommended that the installer has spoken with the client to confirm tile installation style.

Site Inspection & Floor Presentation

Ensure that the conditions for laying carpet tiles meet AS 2455.1:2019 Textile floor coverings – Installation practice, Part 1: General.

Subfloors must be dry, clean, free from dust, level, free from grooves, ridges, gaps, holes and similar imperfections. Remove old carpet and adhesives.

Depressions and cracks should be filled using a levelling compound specific for the sub floor type in accordance with the manufacturer's directions. Check that the levelling compound is compatible with the carpet tile backing system.

If a hard underlay is required, ensure it is compatible with the Acouflor carpet tile and choice of adhesive. For timber subfloors an underlay shall be either reduced density hardboard flooring underlay or a medium density fibre cement sheet.

Where appropriate, the installer may ask for moisture content (RH%) and alkalinity (pH) levels for concrete subfloors. Refer to the Standards AS 2455.1 for preparing subfloors.

Conditioning

Carpet tile and adhesives should be conditioned on site for a minimum of 48 hours prior to installation where the ambient temperature should range between 10 and 35 degrees C and humidity between 30 and 75 %. It is recommended that the air conditioning is kept on during conditioning.

Moisture & Alkalinity Testing

It is a requirement according to the Standard AS 2455.1 that sub floors relative humidity (RH) testing should be carried out prior to installation by a competent person using a surface-hygrometer. The alkalinity (pH) must be tested using pH test paper pf pH test instruments. Both indicators should be presented in a test report.

Install the tiles if the RH level is 85% and falling and a pH level of 12 or less. Do not commence installation of carpet tiles until the RH and pH readings are optimal.

Installation Procedure

Once subfloors are prepared and RH and pH levels are at the optimum levels, proceed with installation.

Primer

If adding a primer, use a roller, brush or spray in accordance with the primer manufacturer's directions.

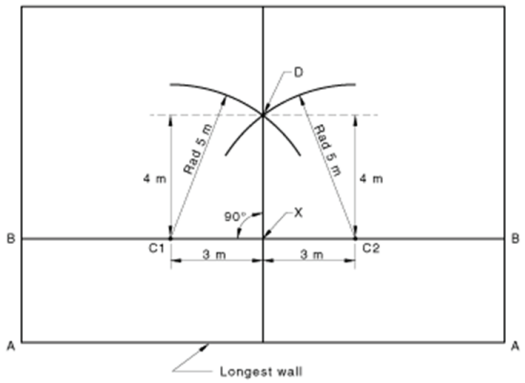
The subfloor should follow the directions of preparation.

Setting out

Follow these instructions for setting out the tile layout, referring to figure 1 – method of setting up carpet tile installation.

1. Mark a line (B) parallel to the longest wall (A)
2. Mark point (X) along line B at a distance to ensure that the requirements of perimeter modular carpet tiles are a minimum of 1/3 width
3. Mark points C1 and C2 at a distance of 3m each side of X
4. At C1 and C2 scribe an arc at a distance of 5m to establish point D where arcs intersect
5. Draw a line through D and X which will be 90 degrees to line B

Figure 1 – Method of setting up carpet tiles installation.



It is recommended that full tiles are laid in door ways and high traffic areas. Please account for this when planning the set out.

Installation
Applying adhesive

Spread pressure sensitive adhesive to 100% of the floor areas by V1 notch trowel, in accordance with the adhesive manufacturer instructions, see below list of recommended adhesives. The porosity of the absorption of adhesive will vary with differing sub floors. Ensure the application rate is sufficient for the recommended spread rates.

The adhesive must tack-up before laying tiles. Be sure to keep the area free from traffic during this time. The adhesive is ready when it turns clear in appearance.

For high traffic areas, additional adhesives will be required to ensure a stronger bond of the tile to the subfloor. It is the responsibility of the contractor to discuss the movement of traffic in the area of installation prior. Roll with a roller to ensure all air bubbles are removed and that there is full contact between the subfloor and the underlay backing. This is for the entire floor area including all perimeter tiles.

Cutting

Use a sharp utility knife to cut tiles from the back. A site cut edge should not be installed to a factory edge.

Approved Adhesives

Polymer RLA 999
MJS Max Bond 2009
Intertac Plus
Mapei Ultra Bond
Roberts R99

Laying tiles

1. Lay carpet tiles in the sequence shown in Figure 2 – conventional installation sequence
2. Start at section AXB then proceed to lay tiles in the other quadrants in the same sequence commencing the access point X
3. Ensure the directional arrow on the back side of tile points in the direction of the laying configuration
4. Tiles should be abutted. Measure after every 10 modules are fitted to ensure the configuration is not out of square more than 1mm. Corrections need to be made until installation is completed
5. Tension should be even
6. Do not use mechanical methods of butting tiles together as the tension can cause peaking at the join

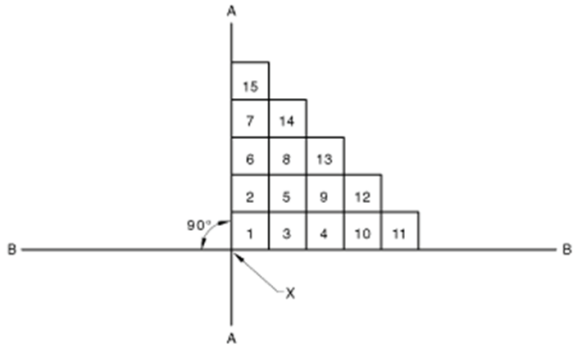


Figure 2 – Conventional installation sequence

Perimeter carpet tiles

Perimeter tiles shall be laid according to these instructions as shown in figure 3 – installation of perimeter carpet tiles.

1. Lay tile C directly on top of B with pile uppermost and edge of tile C hard against the wall
2. Use a sharp knife, place nicks in the tile B at D and E
3. Use a straight edge and cut from the back of the tile B from point D to E to obtain a cut piece to be the perimeter tile
4. Remove carpet tile C and waste from tile B and apply primer and adhesive to the full width of the cut tile B from the perimeter wall, ensuring that it has tacked up before installation

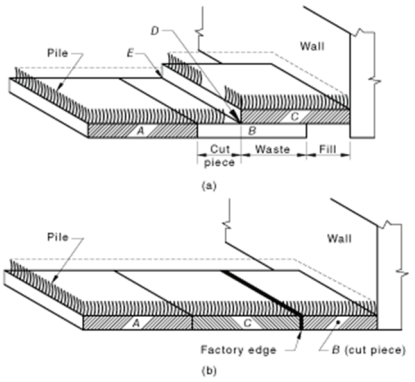
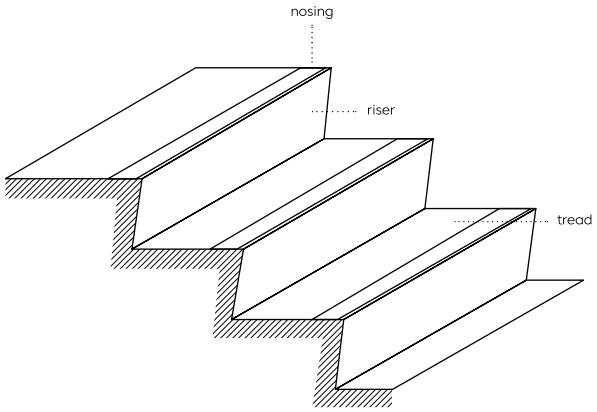


Figure 3 – Installation of perimeter carpet tiles

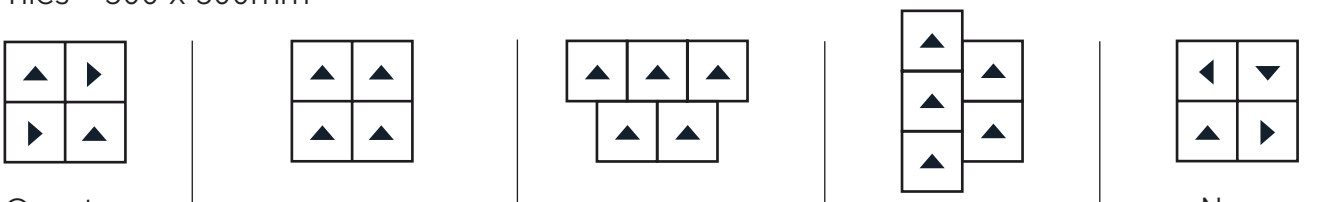


Installation on Stairs

1. Measure the stair riser and tread
2. Cut carpet tile to fit
3. Do not prime unless recommended by the adhesive manufacturer

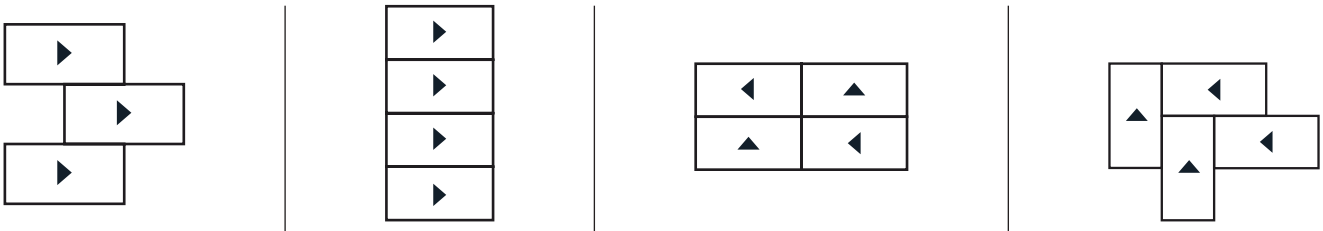
Pattern Configurations

Tiles – 500 x 500mm



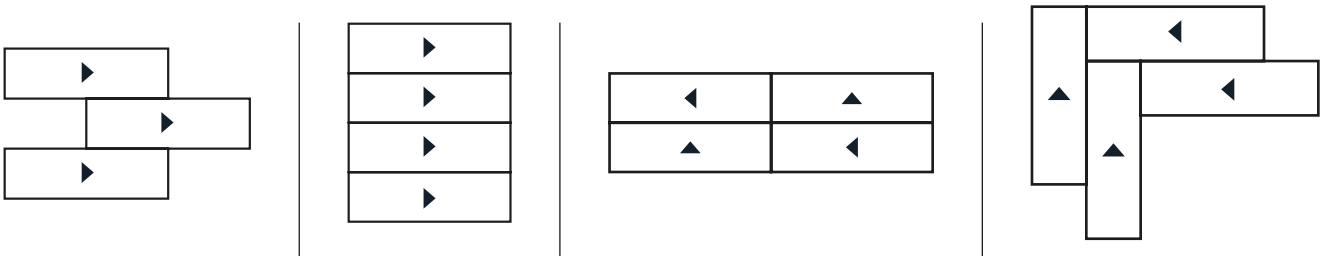
Quarter Turn | Directional | Brick | Ashlar | Non-Directional

Planks – 500 x 1000mm



Ashlar | Monolithic | Non-Directional | Herringbone

Planks – 250 x 1000mm



Ashlar | Monolithic | Non-Directional | Herringbone

Completion

On completion of the installation of carpet tiles, the following procedures should be followed.

1. Ensure no pile is caught between the tile joints and at the perimeter
2. Remove excess adhesive and loose piles
3. Ensure all tiles are fixed in place
4. Vacuum the entire floor area
5. Conduct a visual test of the installation appearance before leaving site
6. Place sheets of plywood or cardboard over completed installation during furniture placement
7. We do not recommend using plastic sheets as this will inhibit the adhesive to naturally dry

Customer Care Australia

customercare.au@acouflor.com
T +61 1800 626 462
acouflor.com