

Installation guide

FLEXLOCK



TECHNICAL DATA

1 – DESCRIPTION

Flexlock is an area elastic flooring compliant with EN 14904 norm and composed of:

- (1) Multi-layer sports floor, 22mm 3 strips / Tongue & Groove
- (2) Flexlock: pre-fabricated panels 30mm
- (3) Cushion foam (12mm)
- (4) Tarfilm (200μ)



2 – PACKAGING

Tarfilm roll of 120 sqm (3m width x 40m length)
 Cushion foam of 15,07 sqm (1,37m width X 11m length)
 Flexlock pre-fabricated panels (118cm width x 228cm length) : 1 pack = 80,54 m²
 Wooden boards 22mm : 4 planks/pack (1,96 sqm)

PREFACE

In order to provide the customer with the best use of product, this installation guide has to be followed carefully to guarantee conformity and ensure sports performance. If not, Tarkett Sports will not be responsible for damages following installation.

Any use of the product for purposes other than the ones set out, in the condition of use, should be submitted to Tarkett Sports for prior approval. If you need any further information, please contact your dealer who will provide you with the appropriate advice.



Check before installation, the quality of the delivered product. If the product is defective, contact Tarkett Sports. If installation is in process, it shall be stopped on the day the defect is noticed otherwise the Warranty shall not apply.

Flexlock is a wooden system and as a natural and living material, wood is moving due to relative humidity (RH). The wood shrinks in dry conditions and it expands in high relative humidity. In areas where the wood has been influenced by high or low RH for a longer period, damage in the wood may arise. Therefore it is important to always keep the RH in the hall between 40-60%.

SUBFLOOR

The subfloor must be dry, flat, clean, strong.

The moisture rate for concrete or cement screed must be in accordance with the local requirements.

For example : France $\leq 4\%$, Germany $< 2\%$, Spain $\leq 3\%$, (CCM method),...



Subfloor	Requirements
Surface appearance	Smooth
Flatness	$\leq 6\text{mm}$ under 3m ruler
Altimetry	$\pm 1\text{cm}$ compared to the average
Moister rates for concrete	Local standard compliant
Moister rates for anhydrite screed	$< 0,5\%$
Saw joints treatment	No
Cracks $< 1\text{mm}$ treatment	No

Levelling compound is necessary if the surface appearance is not smooth or if the flatness is not compliant.

If the concrete is exposed to capillary moisture surges, it's necessary to waterproof the subfloor by an epoxy resin (or equivalent) before applying the levelling compound, or for localized concrete repair, use a specific moisture-resistant levelling.

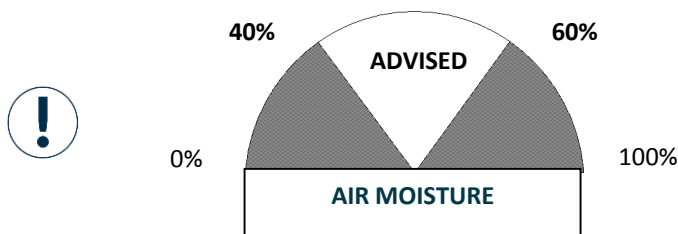
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1 – GENERAL CONDITIONS



The timber products have to be stored on their respective palettes, in a closed, dry and heated room between 15 and 20°C (59 °F and 68°F).

The relative humidity must always be maintained between 40 and 60%.



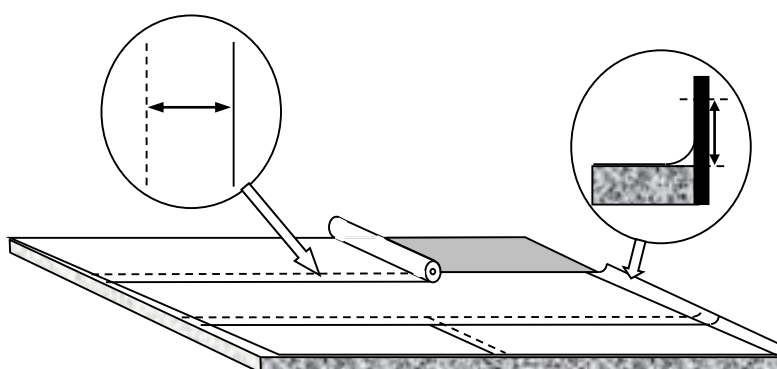
The packages of timber products must not be opened before being installed. Timber products must be acclimatized in the hall for 24 hours before installation.

During installation, the temperature needed, in a room for a Proflex M system should be between 15 and 20°C (between 59 °F and 68°F).

2 – TARFILM (VAPOUR BARRIER)

Lay the first sheet on the ground. The second sheet is laid with 20cm overlapping the first, then tape the both sheets together. We recommend to use strong adhesive tapes PVC. Do not forget to leave 10cm of Tarfilm along the edges against the walls. Ref. 1027006 (1 roll = 3m width x 40m length = 120sqm, thickness 200μ).

Please note that on an asphalt screed or any other sub-floor with a risk of pollution or possible high humidity content, you will have to double the layers but in a 90° direction.



INSTALLATION

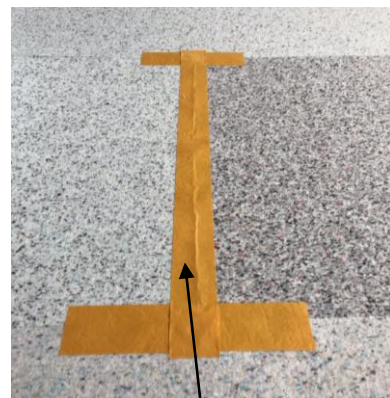
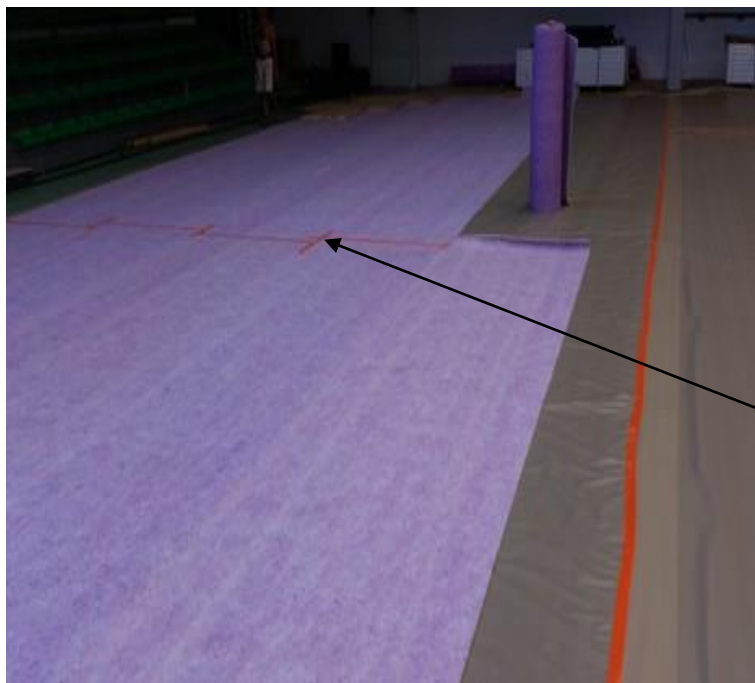
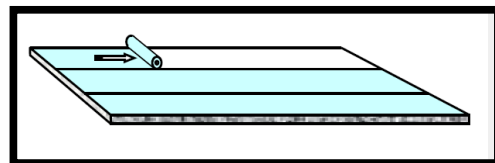
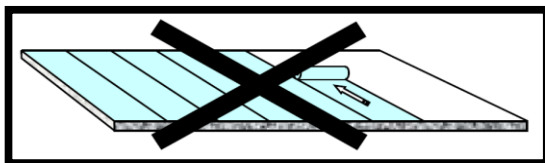
3 – CUSHION FOAM 12 mm

For the Flexlock system, roll out the foam alongside the area.

When you lay the foam you may have to cut a roll and to connect it with another, so you will have to overlap the first roll with an extra width of 10cm.

Then the foam will have to rest 12 hours to adapt (without any storage on it), then you will be able to cut off the extra overlapping to get a flat aspect.

In order to lock up the rolls in the short ends, we recommend taping the rolls one to another.



We recommend to use strong adhesive tapes PVC or the Tarkotape.

Do not forget to locate the center of the anchors on the foam, that will help you to install the trapdoors.

At doorways and entrance openings, leave a 10cm wide strip free of Tarfoam; this should be filled with a 10 mm plywood for re-enforcement purposes. The same operation can be carried out to re-enforce parts that support heavy loads but you must keep in mind that these areas won't be in accordance with the EN14904 standard.

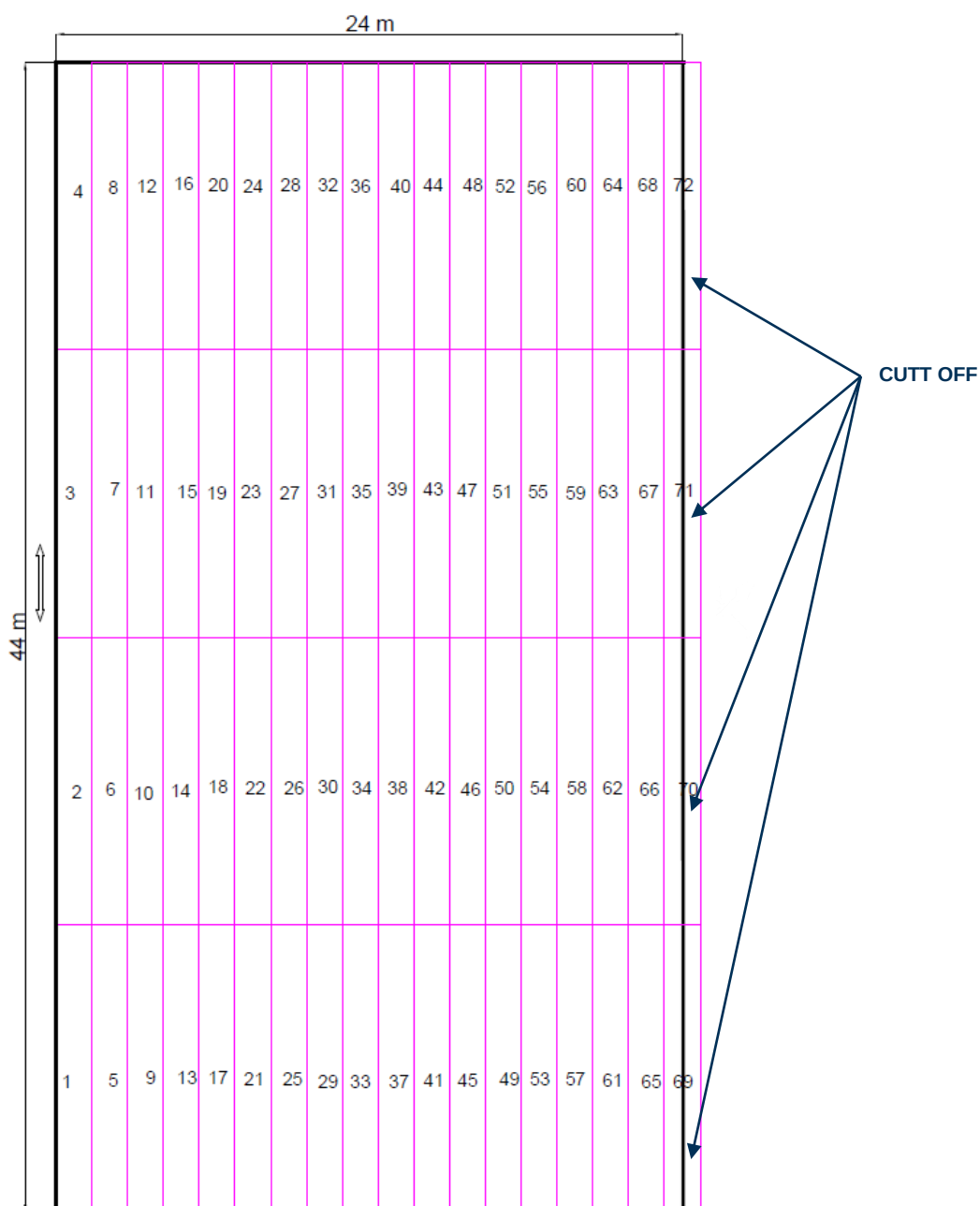
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3 – CUSHION FOAM 12 mm

The foam sheets are laid according to the below scheme.

There are 4 pcs alongside the typical hall.

72 pcs of the foam are needed for typical hall (24 x 44 meters).



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4 – FLEXLOCK PRE-FABRICATED PANELS

The expansion gap – all around the installation area should be at least 30mm.

The calculation method is:

Length: $0,10\% \times \text{length}$

Width: $0,15\% \times \text{width}$

For example, for a sports hall area of 44 x 24m, expansion gap should be as follows:

Length: $44000\text{mm} \times 0,10\% = 44\text{mm}$

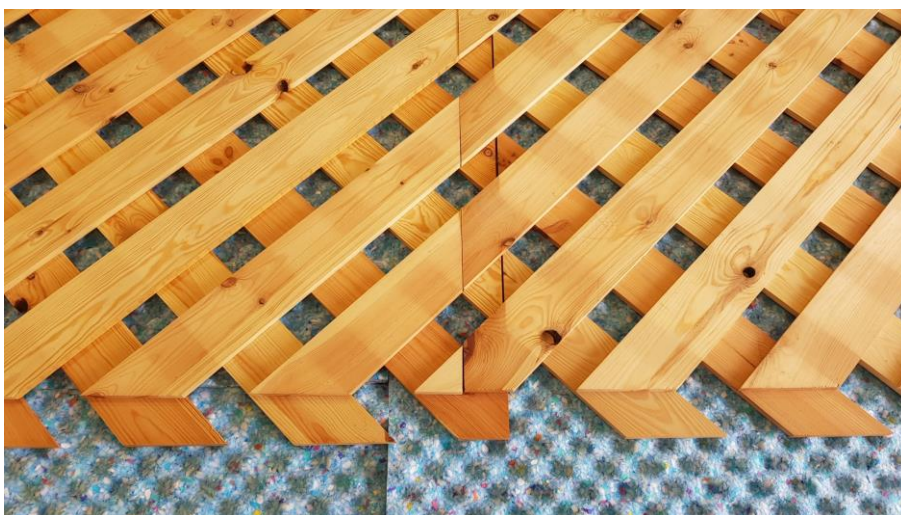
Width: $24000\text{mm} \times 0,15\% = 36\text{mm}$

Please use max. 8 mm gaps for squash halls.

The Flexlock panels are installed in the transverse direction of the room.

Start installing the first row of the panels from the left corner of sport hall to the right.

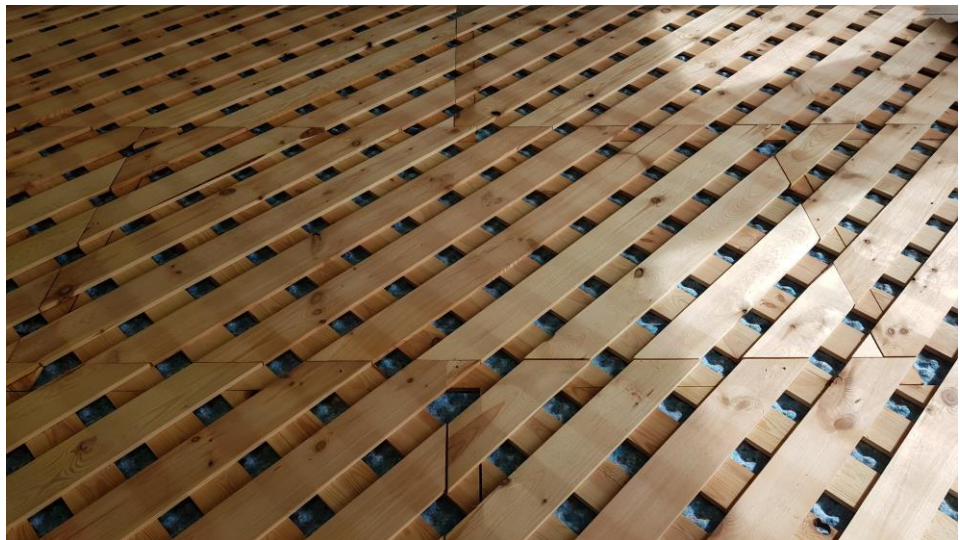
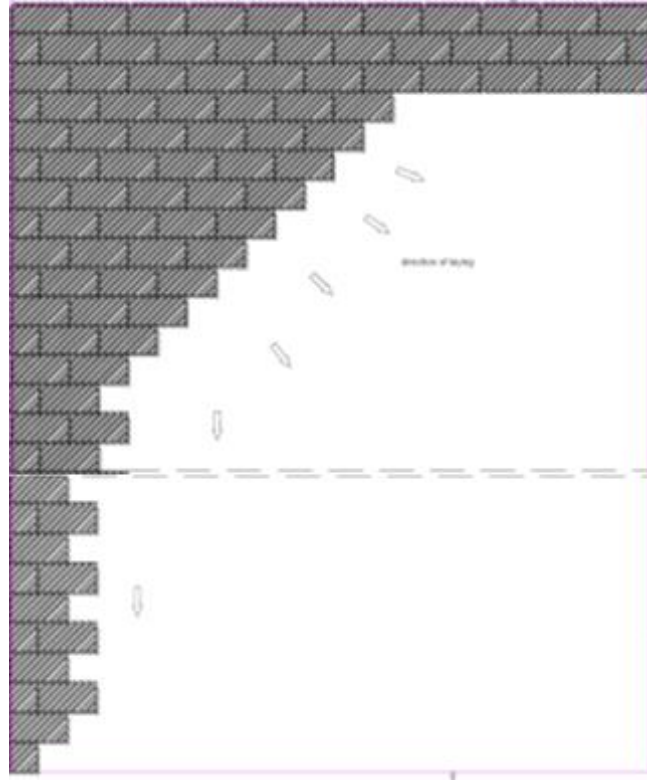
Lay the 2nd Flexlock panel next to the 1st one. The upper layer of the 2nd panel must fit to the bottom layer of the 1st according to the below pictures. The upper layer of one panel must overlap the bottom layer of next one. It's floating installation.



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4 – FLEXLOCK PRE-FABRICATED PANELS

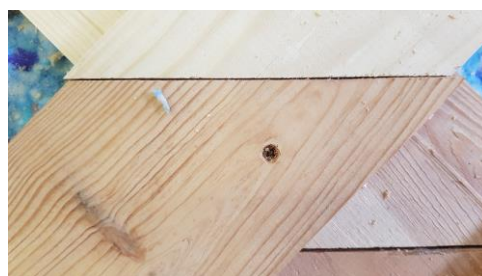
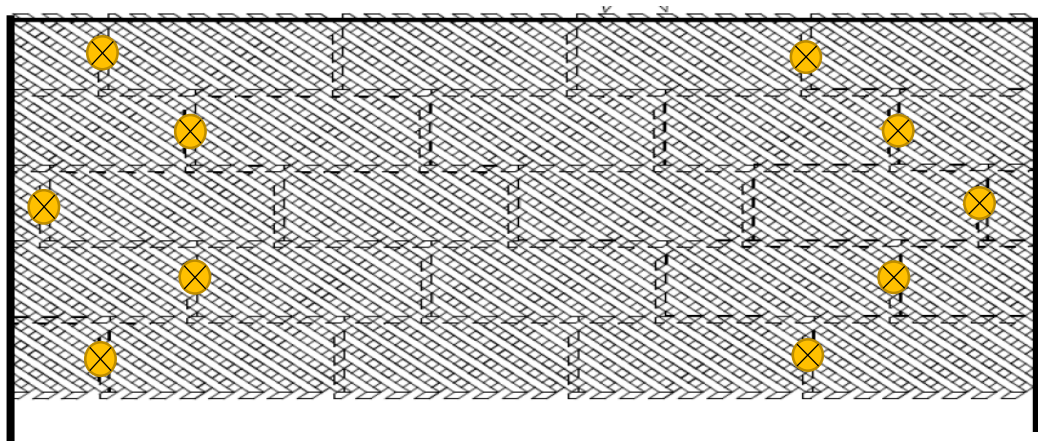
The next row must be staggered by half from the previous one.



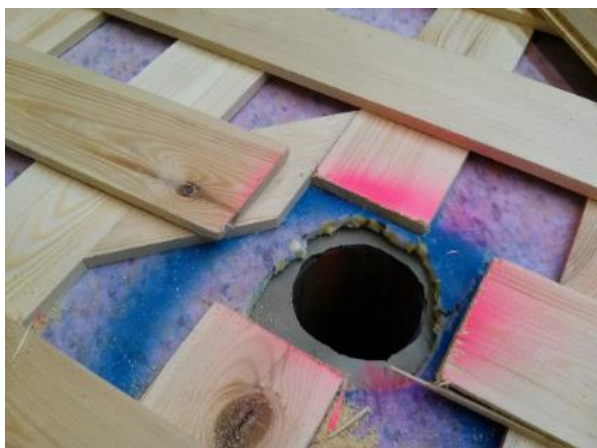
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4 – FLEXLOCK PRE-FABRICATED PANELS

 We recommend to screw the modules placed to the row extremities.



Mark the location where trap door will be placed.
Cut off the panels to expose the place.
Reinforce the weak points by using a piece of panel and fix it by glue or screws.



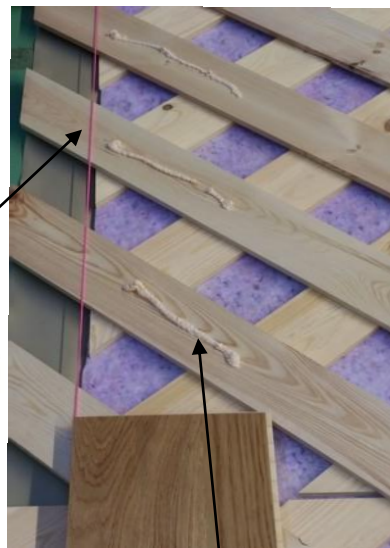
INSTALLATION

4 – 22MM MULTILAYER T&G FLOORING

The top flooring should be install perpendicular to the length of the Flexlock panels.



Before the top flooring is installed please use the chalk line to set the correct position of the flooring (straightness).



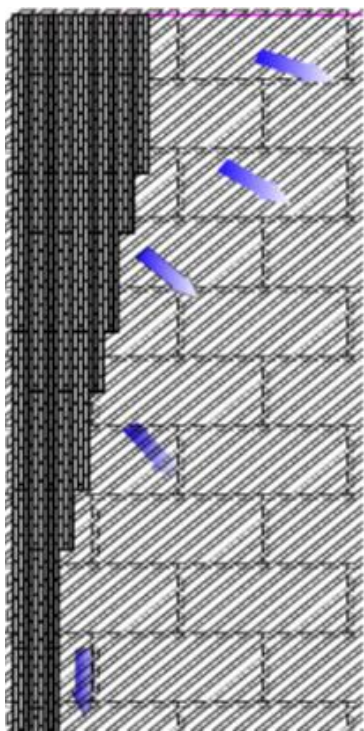
The first row have to be glued on Flexclock battens with D3 wood glue.



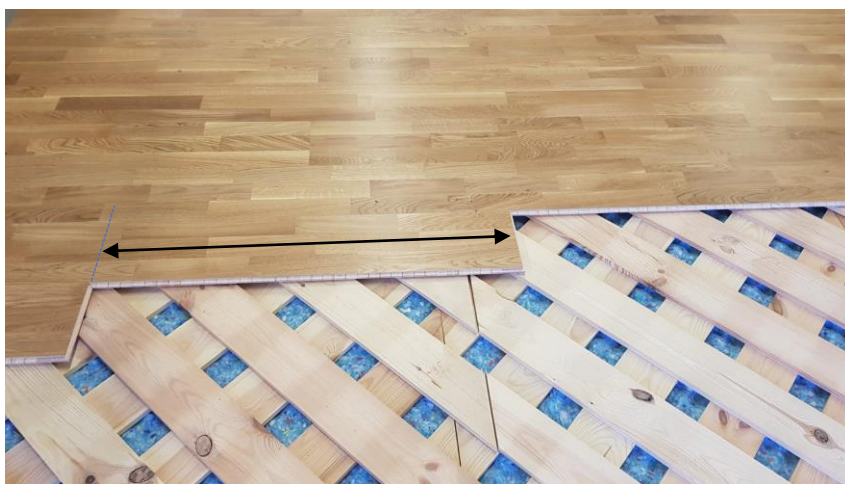
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4 – 22MM MULTILAYER T&G FLOORING

Install three full rows of the top flooring at the beginning. After having three full rows installed you can start installing a top flooring diagonally.



Minimum plank length of 400mm at the extremities of each row.

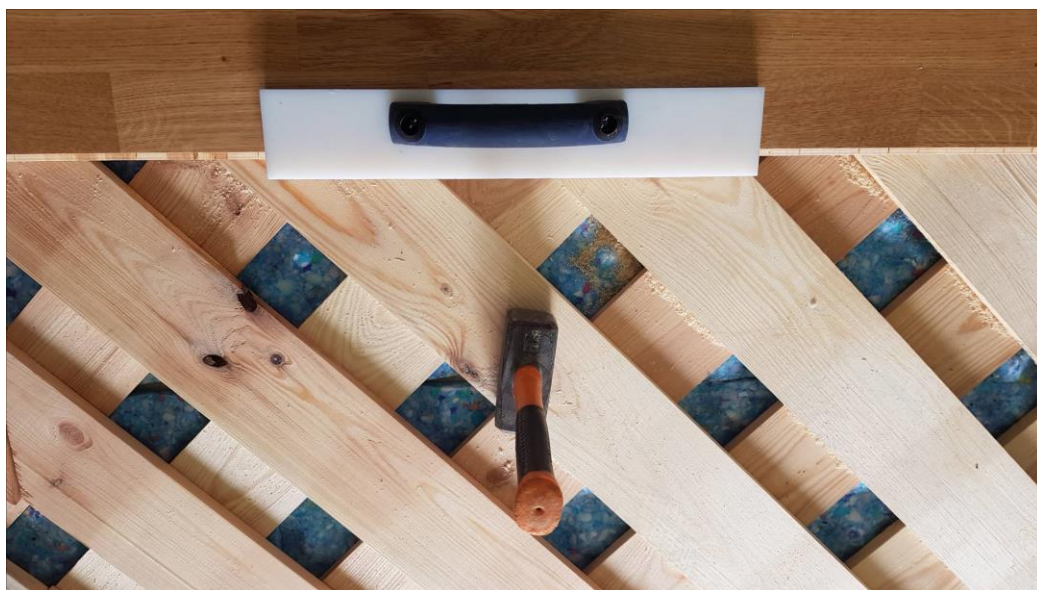


From one row to the adjacent one, offset minimum 400mm.

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4 – 22MM MULTILAYER T&G FLOORING

To insert the tongue in the groove, use a hammer with a wooden or nylon wedge.

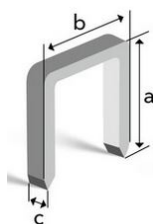
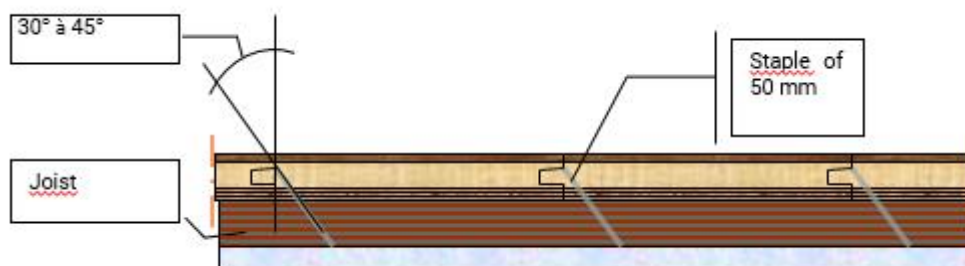


INSTALLATION

4 – 22MM MULTILAYER T&G FLOORING

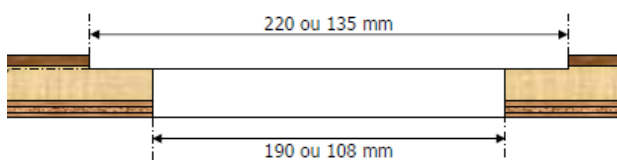
The boards have to be fixed to every battens using 50mm staples. Affix the board to the batten through the tongue. Position the staples at the back of the tongue and drive it diagonally (45° angle) into the board (see diagram below).

Recommendation: A=50 mm, B=10,8 mm, C= 1,4 x 1,6 mm



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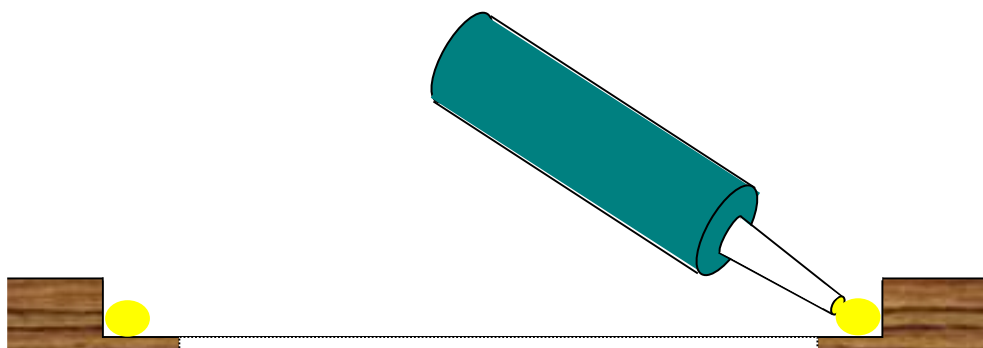
5 – TRAP DOOR



Form a circular recess according to the trap door, check the diameter and the depth of each part of the trap door, before perforating the wooden floor. Use a jig saw and a hand-held router.



Fix the trap door with a PU mastic all around the upper recess you created.



Clean the frame carefully with acetone and place the trap door in the hole.



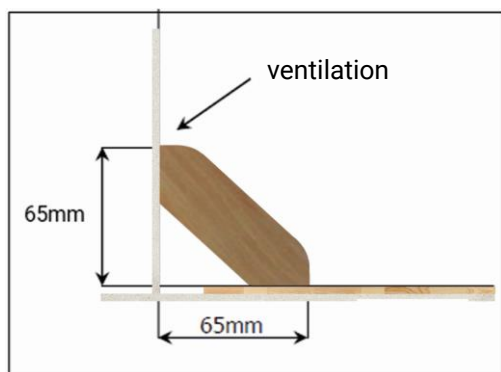
INSTALLATION

6 – SKIRTING

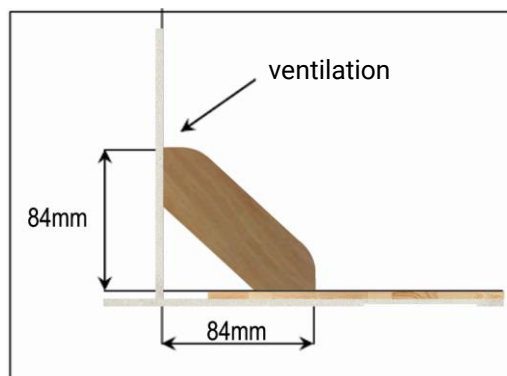
Install skirting :

Ventilated wooden skirting are designed to cover expansion gap and allow the ventilation of the floor.

Warning: the opening all along the skirting let the air circulate, it will always be placed against the wall.



Standard

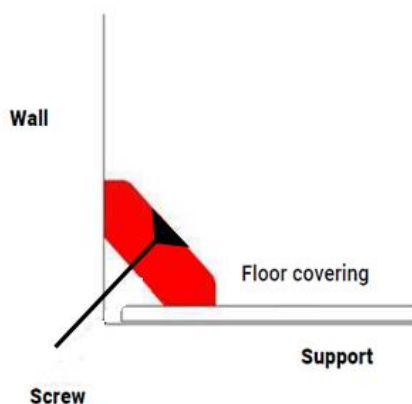


Wide

Fix skirting :

Skirting should be fixed on the wall (never on the floor) with screws (5.0 x 100mm).

For uneven walls skirting can be glued in addition to screws for perfect finishing.



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7 – GAME LINES MARKING

Permanent marking :

A two-component polyurethane paint is used to draw game lines.

A protective tape is used during the painting to fix the shape.

The floor must be cleaned.

The paint is applied with roller or paint brush.

Two coats should be applied for quality marking; avoiding applying a damp coat on top of a damp coat (the first coat should be dry by touch). Similarly, the covering power of a game line is obtained by applying two coats. Too much paint can cause micro cracking on the surface.

Paints recommended by Tarkett Sports :

- Blanchon Thixo Tracé – Blanchon SA – Tel: +33 4 72 89 06 00

www.blanchon.com

- Kipp 2K PUR Indoor for lines marking and Kipp 2K PUR Surface Paint for the surfaces

www.kipp-markierungen.de

- Bona SuperSport Line Paint – Bona – Tel: +4640385500 - E-mail: bona@bona.com

www.bona.com

Always follow the manufacturer's installation recommendations.

