

Installation instructions

PROFLEX M



TECHNICAL DATA

1 – DESCRIPTION

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

- (1) Multi-layer sports floor, 22mm 3 strips / Tongue & Groove
- (2) Double batten system (22mm X 2) with elastomeric pads (10mm)
- (3) Tarfoam 100 (12mm)
- (4) Tarfilm (200μ)



2 – PACKAGING

Tarfilm roll of 120 sqm (3m width x 40m length)
Tarfoam 100 roll of 40 sqm (1,6m width X 25m length)
Double batten Proflex Module (1 pack = 2,50 sqm installed)
Elastomeric pads (Box of 650 pads)
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.

Proflex M 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.

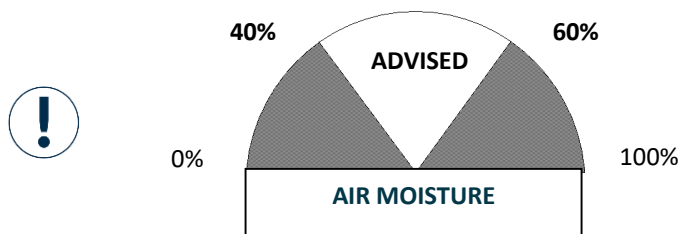
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1 – GENERAL CONDITIONS



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%.



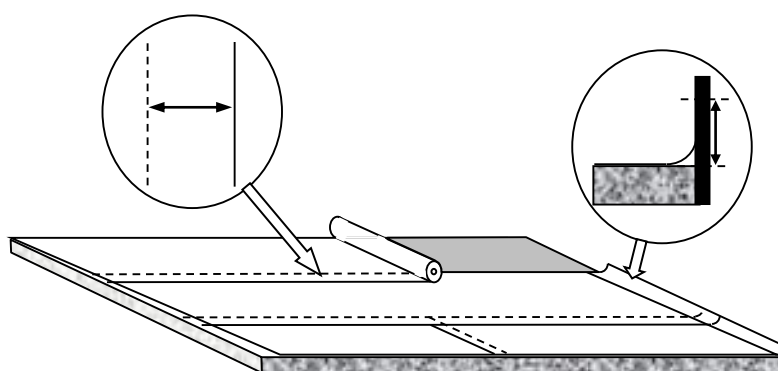
The packages of timber products must not be opened before being installed. Timber products must be acclimatized in the hall for 24 hours before installation.

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.



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3 – TARFOAM 12 mm

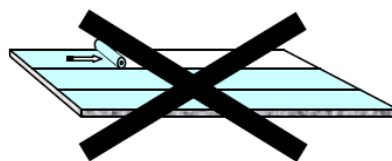
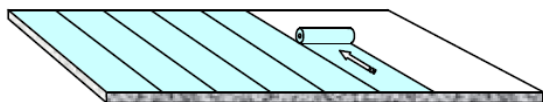
Roll out the Tarfoam réf. 1551084 alongside the area or across the width of the hall.

The Tarfoam must be unrolling in the width of the room, for those that are less or equal to 25 m width, in order to avoid seams in short ends.

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.

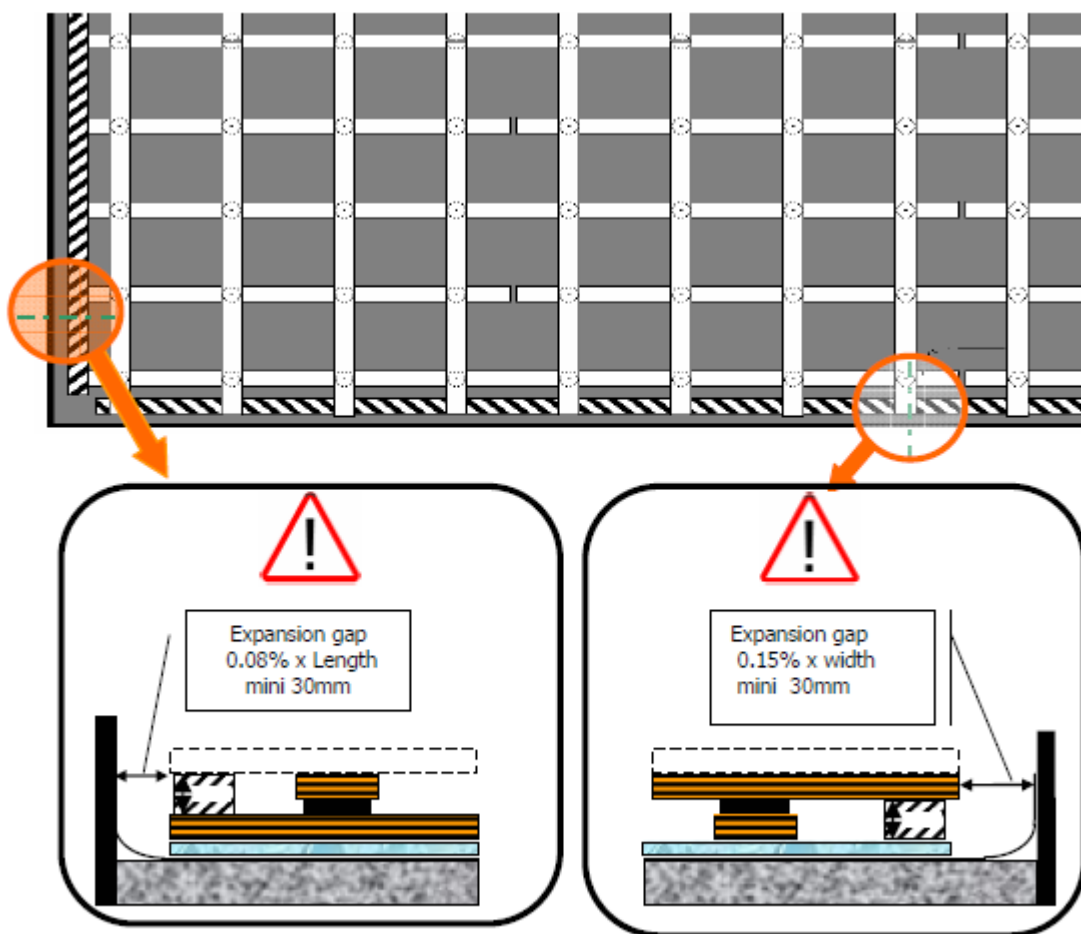
At doorways and entrance openings, leave a 10cm wide strip free of Tarfoam; this should be filled with a 10 mm plywood for re-enforcement purposes. The same operation can be carried out to re-enforce parts that support heavy loads but you must keep in mind that these areas won't be in accordance with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

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4 – EXPANSION GAP



Respect extension gap all around the room for the joists and also for the 22mm wooden planks;



If we consider a 44 x 24m gymnasium

- $44000 \text{ mm} \times 0,08 \% = 35,2 \text{ mm}$ along the wall lengthwise
- $24000 \text{ mm} \times 0,15 \% = 36 \text{ mm}$ along the walls widthwise.

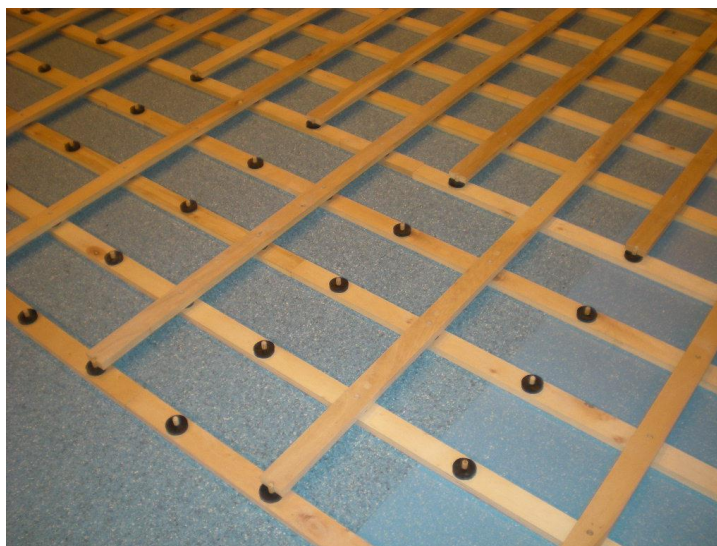
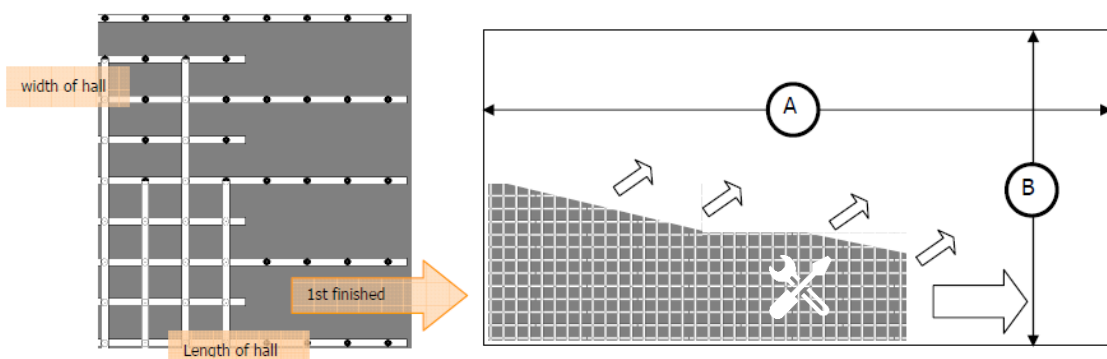
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5 – DOUBLE JOISTS SYSTEM

The first batten of Proflex M is laid on foam in lengthwise direction of the hall.
Joists should not be installed closer than 5cm from the wall. This procedure allows the flexibility of the wood floor's border.



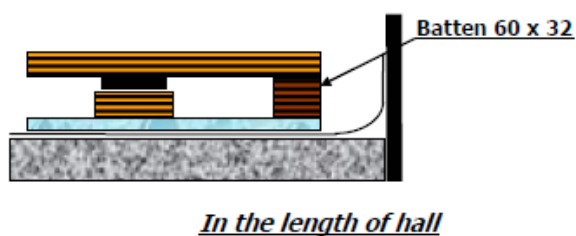
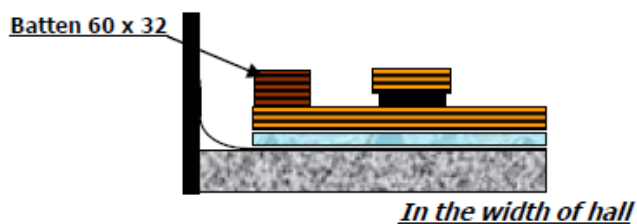
Begin to lay on the foam 10 joists, with an alternation of short (1/2 joist) and normal joist, as the schema below. Insert rubber pad inside the tongue. Then, place the other batten on the pad. We advise to complete the installation of the first row of joists, before finishing the width of hall.



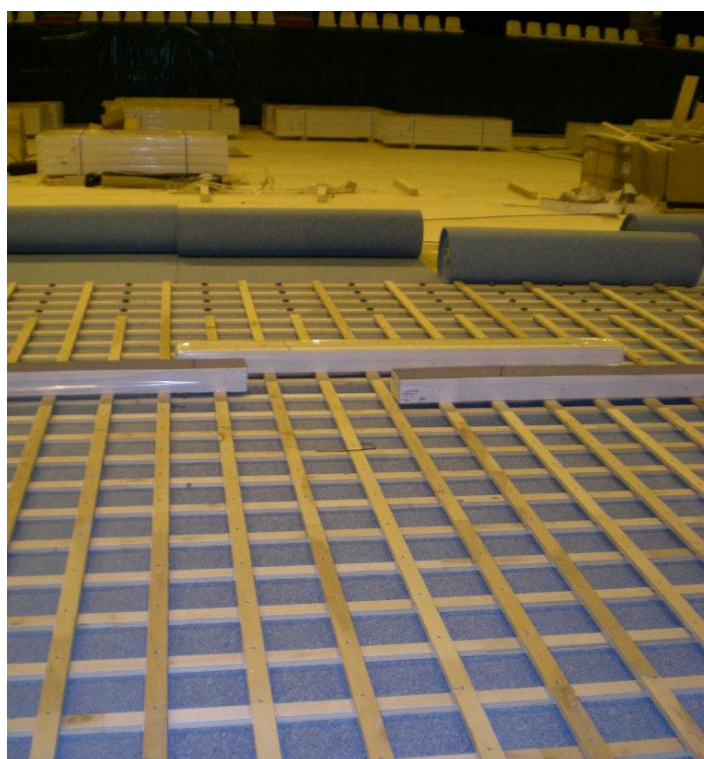
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5 – DOUBLE JOISTS SYSTEM

If the distance of the last joist exceeds 5 cm, an additional joist must be laid on foam to support the end of the wooden floor. It is a square batten 60x32mm that will be required.



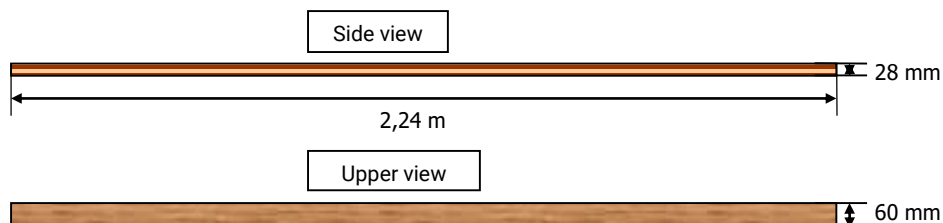
Check that the upper battens are perpendicular to the lower battens



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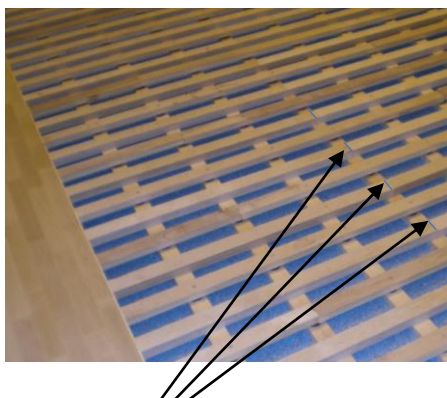
6 – REINFORCEMENT BATTENS

Their function is to reinforce the areas subject to high mechanical stresses.

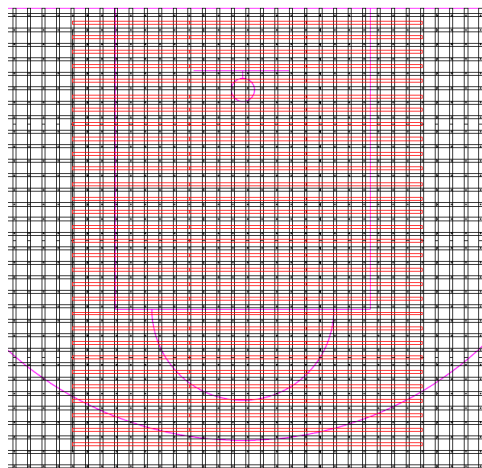


Some areas around the playing court must be reinforced :

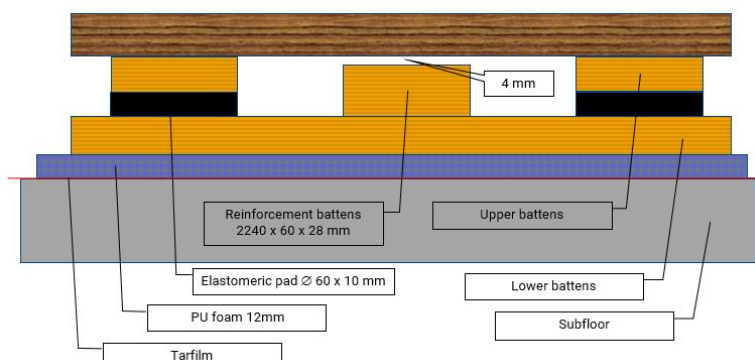
- Under bleachers or mobile bleachers;
- Under heavy basket-ball hoop (parking place and wheel track).
- For a basket-ball court, inside the bottle in accordance with the below drawing



The reinforcement battens must be stapled or glued between the upper joists and the ends must be laid on a joist.



For a basketball court, the reinforcement battens (in red) must be placed end to end, 3 by line, and on 30 rows. 90 battens per bottle, 180 in total.



If any doubts, please contact your local Tarkett Sports representative for further information.

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7 – 22 mm WOODEN PLANKS

Starting process of boards :

Wood floor boards must always be fixed on minimum three joists.

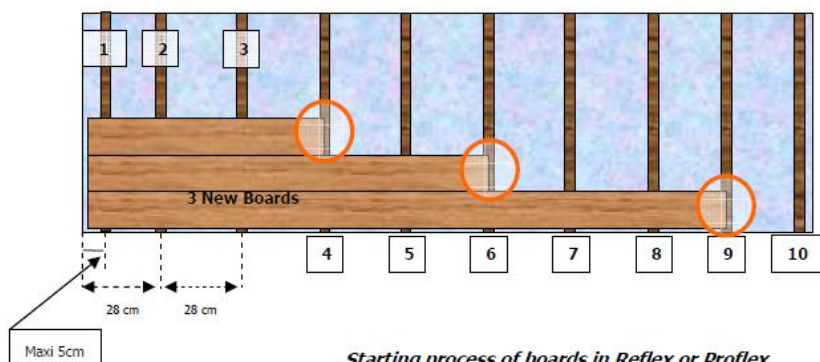
Start installing the first three rows of wood floor with a full board.

The first row must be glued on joists with a specific wood glue D3 in bottle.

The boards must be installed staggered, it is the easiest way to be sure that all the shorts wedges are laid on a batten.



Pay attention to preserve a 560mm difference between the first board wedge and the end of the adjacent one (see the drawing below).



This picture shows clearly where the wedges shall be installed. It is required to do so



If necessary, the planks can be inserted together with an hammer and a wedge before to be stapled.



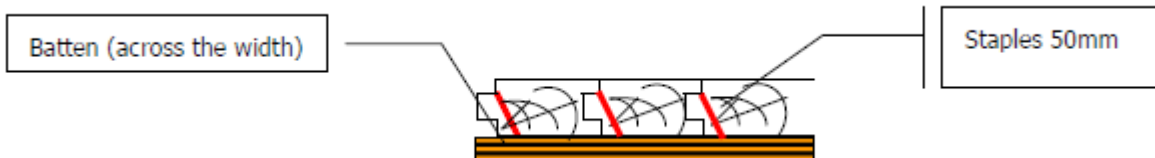
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7 – 22 mm WOODEN PLANKS

Fix planks :

The 22mm boards shall be fixed to all joists using 50mm staples. Affix the board to the joist through the tongue.

Position the staples at the back of the tongue and drive it diagonally (around from 30° to 45° angle) into the board.



At the junction of the two boards (short wedges), affix the boards to the joist with two staples.



To put staples, use a compressor and an air gun.
A compressor of minimum 10 bars needed to drive the staples properly.



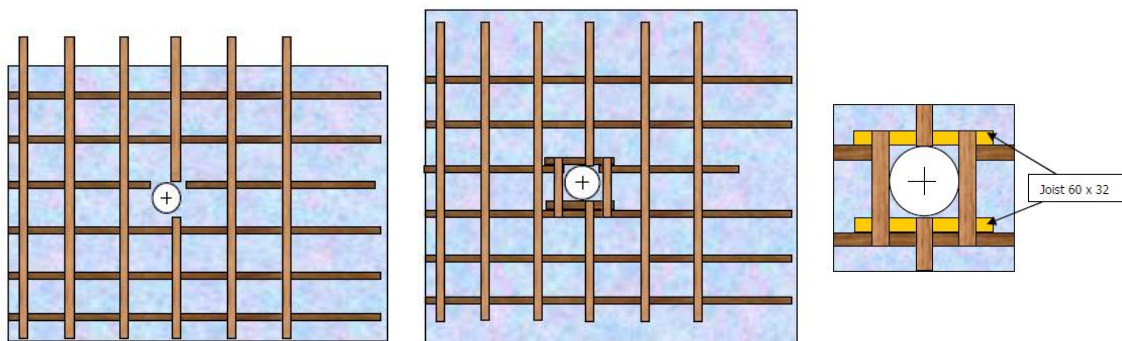
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8 – TRAP DOOR

Install the trap door :

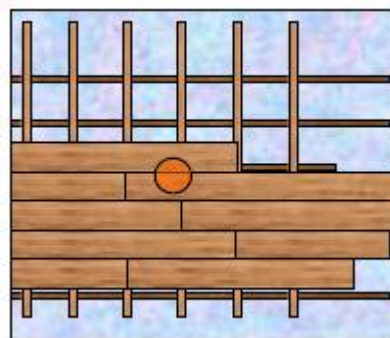
On the area of trap door, you must cut the joist, this location becomes a weak point which must be reinforced.

To reinforced wooden floor around the trap door, install joists all around.

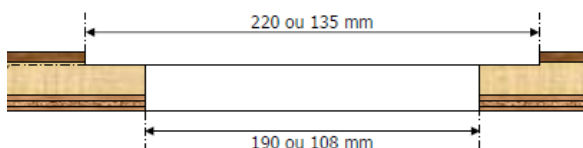


The 22mm wooden planks must be fixed on the reinforced joists with staples.

During the installation of the 22mm wooden planks, locate the center of anchor .



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.

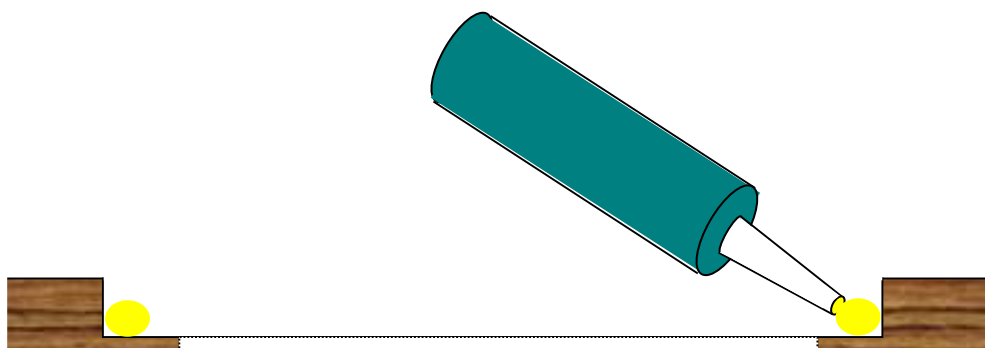


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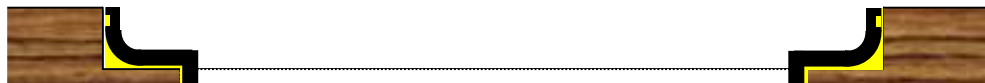
8 – TRAP DOOR

Fix the trap door :

Put the PU mastic all around the upper recess you created.



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



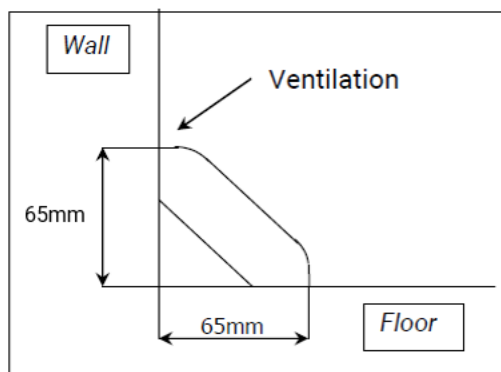
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9 – SKIRTING

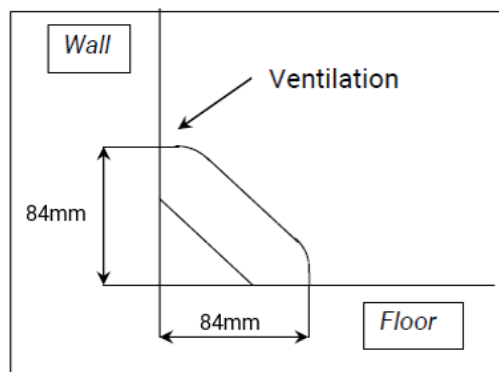
Install skirting :

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

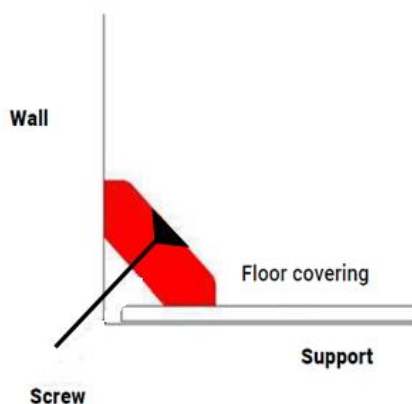


Wide

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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10 – 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.

