

Installation Instructions

2018



PLEASE NOTE

As a natural and living material, wood is moving due to changes of 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 keep the RH in the hall between 40-60%.

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 conditions of use should be submitted to Tarkett for prior approval.

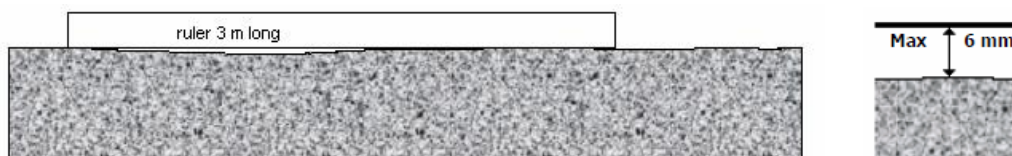
If you need any further information, please contact your dealer who will provide you with the appropriate advice.

I. Specification conditions before installation

I.1. Unevenness of the support

Following Standard EN 14 904 §5.11, all holes and bumps must not exceed 6mm height and/or depth, under the 3 meters long ruler.

Before installing any part of Flexlock system, make sure this part is checked and in conformity with this Standard.



I.2. Support water content

The moisture rate in the screed must in accordance with the local requirements i.e. in France < 4,5% (concrete) – in Germany < 2% (concrete) anhydrite in France and Germany < 0,5% Compatible subfloors



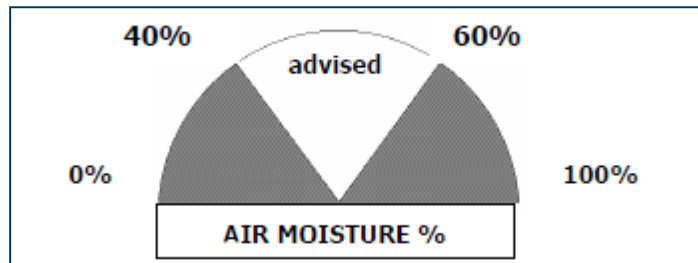
I.3. Atmospheric conditions



er products must be stored on their wedges, in a dry, heated indoor area – between 15 and 20°C (between 68 °F), which means protected against wind and bad weather.

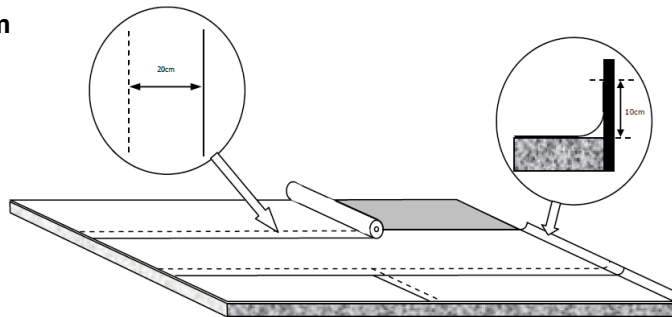
The packaging of timber products must not be removed before starting the installation.

The relative humidity must be between 40 and 60%.



I. Installation of the sub-construction

II.1. Laying the Tarfilm

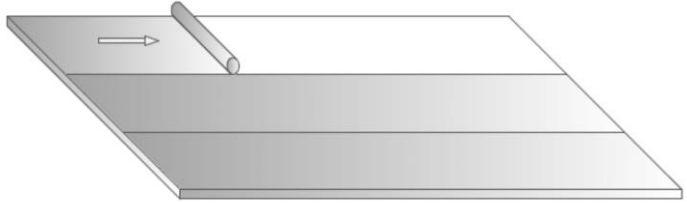


Lay the first sheet on the ground. The second sheet is laid with 20cm overlapping the first, then tape the both sheets together. Do not forget to leave 10cm of Tarfilm along the edges against the walls.

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.

II.2 Unrolling the foam 12 mm

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



“LAMINATED” SIDE ON THE TOP

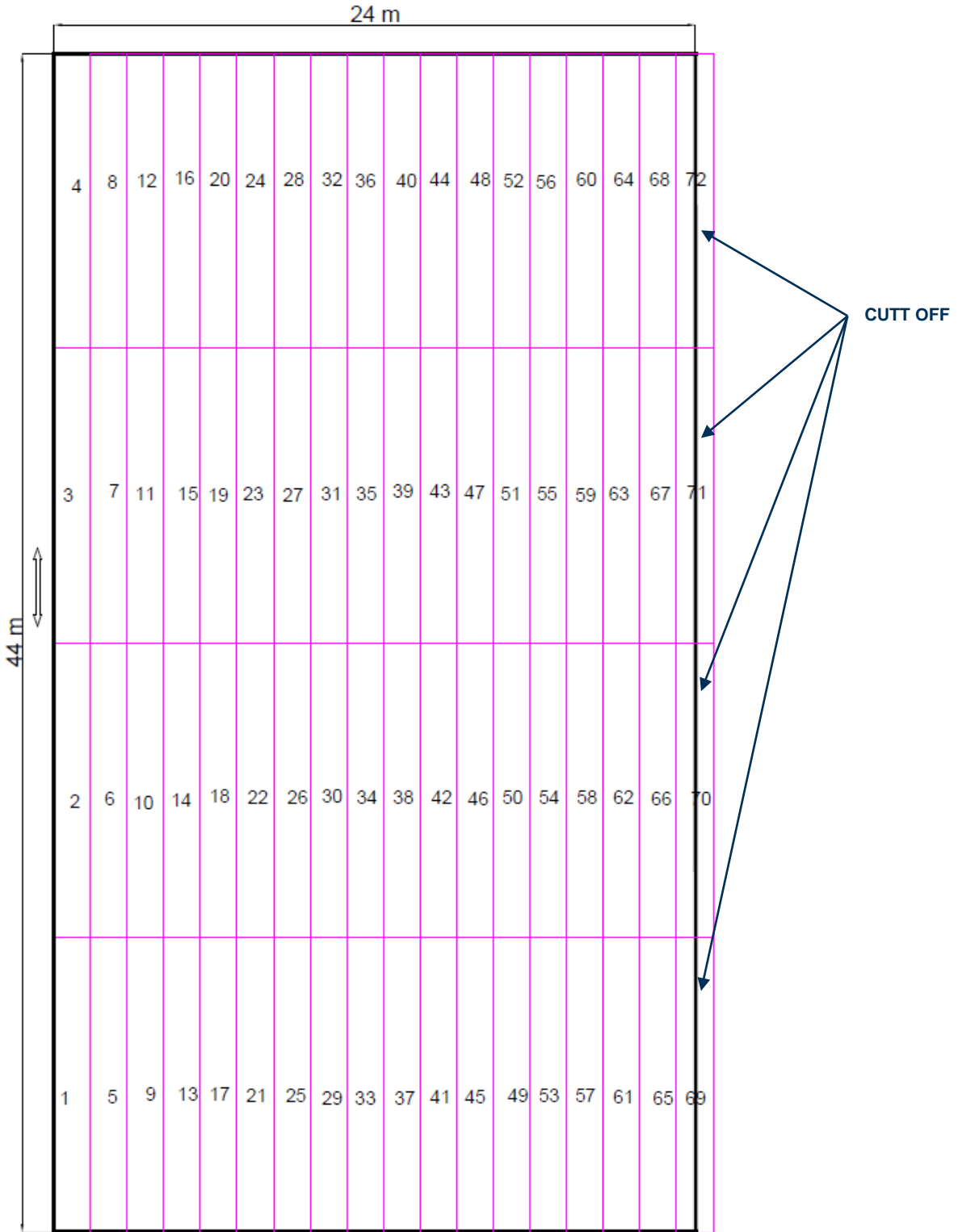
When you lay the foam you have to connect it with another by tape. Lay the foam edge to edge. Then the foam will have to rest 12 hours to adapt before taping (without any storage on it). Do not forget to locate the center of the anchors on the foam, that will help you to install the trapdoors.

We recommend to use strong adhesive tapes PVC from buildings industry (Tesa, Depan'pro)



1st method

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).



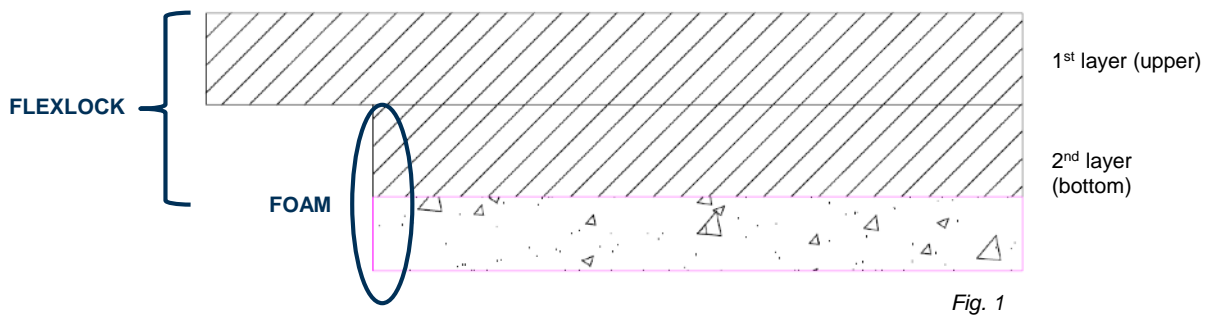
II.3. Laying of Flexlock Panels

The expansion gap – all around the installation area should be at least 36mm.

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.

Start installing the first row of the panels from the left corner of sport hall to the right.
Lay the 1st Flexlock panel in the first row on the foam. The bottom layer of the panel should be placed by the edge of the foam. The upper layer will be slightly out of the foam edge (1). 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 (2). **The upper layer of one panel must overlap the bottom layer of next one.** It's floating installation (no screws/nails/glue).



Installation method



Fig. 2

Install 3 full rows of the Flexlock at the beginning. The first panel in the 2nd row must be installed in such a way that the half of panel is placed out of the foam edge (3) => **approx. 110 cm.**

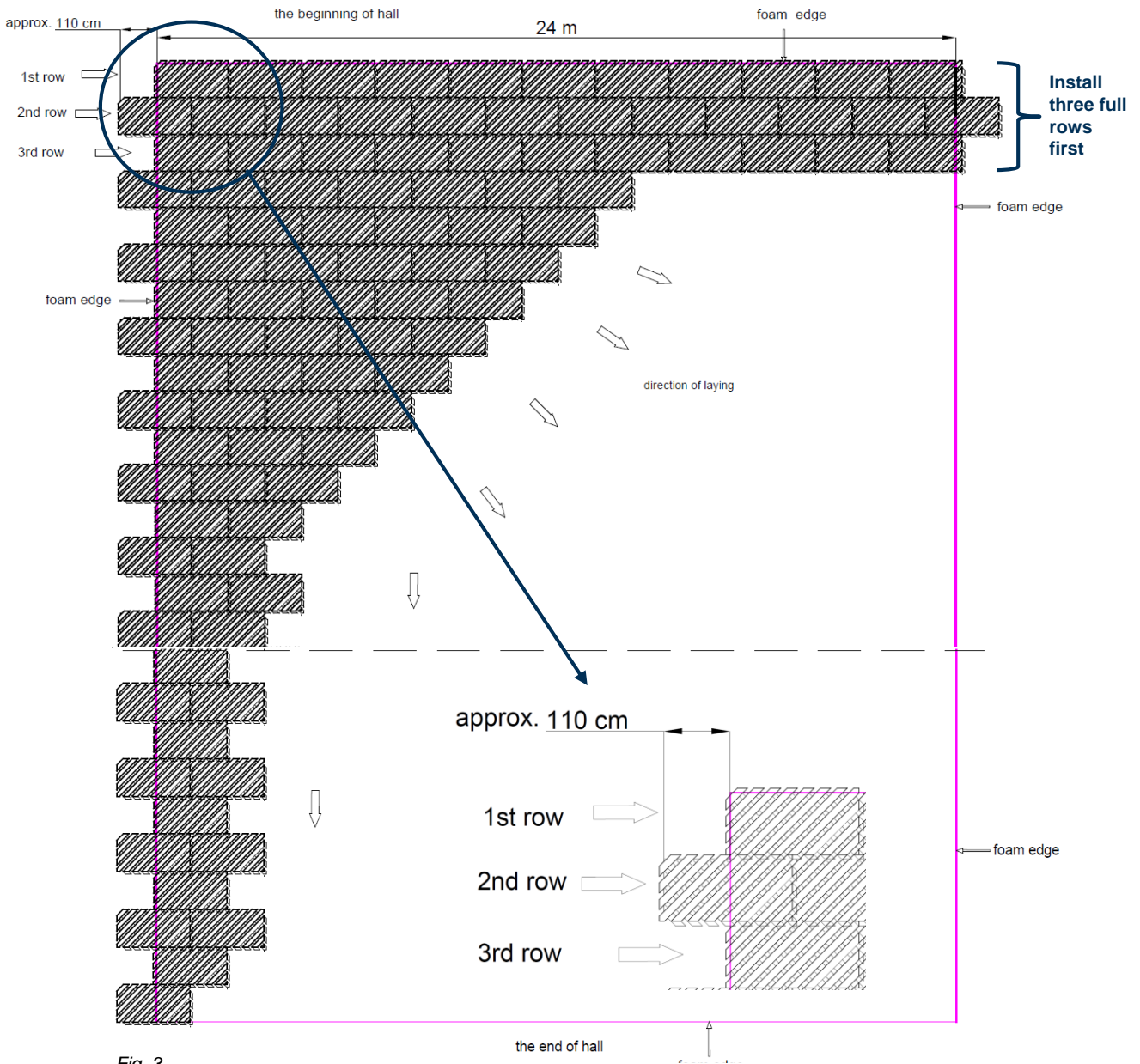
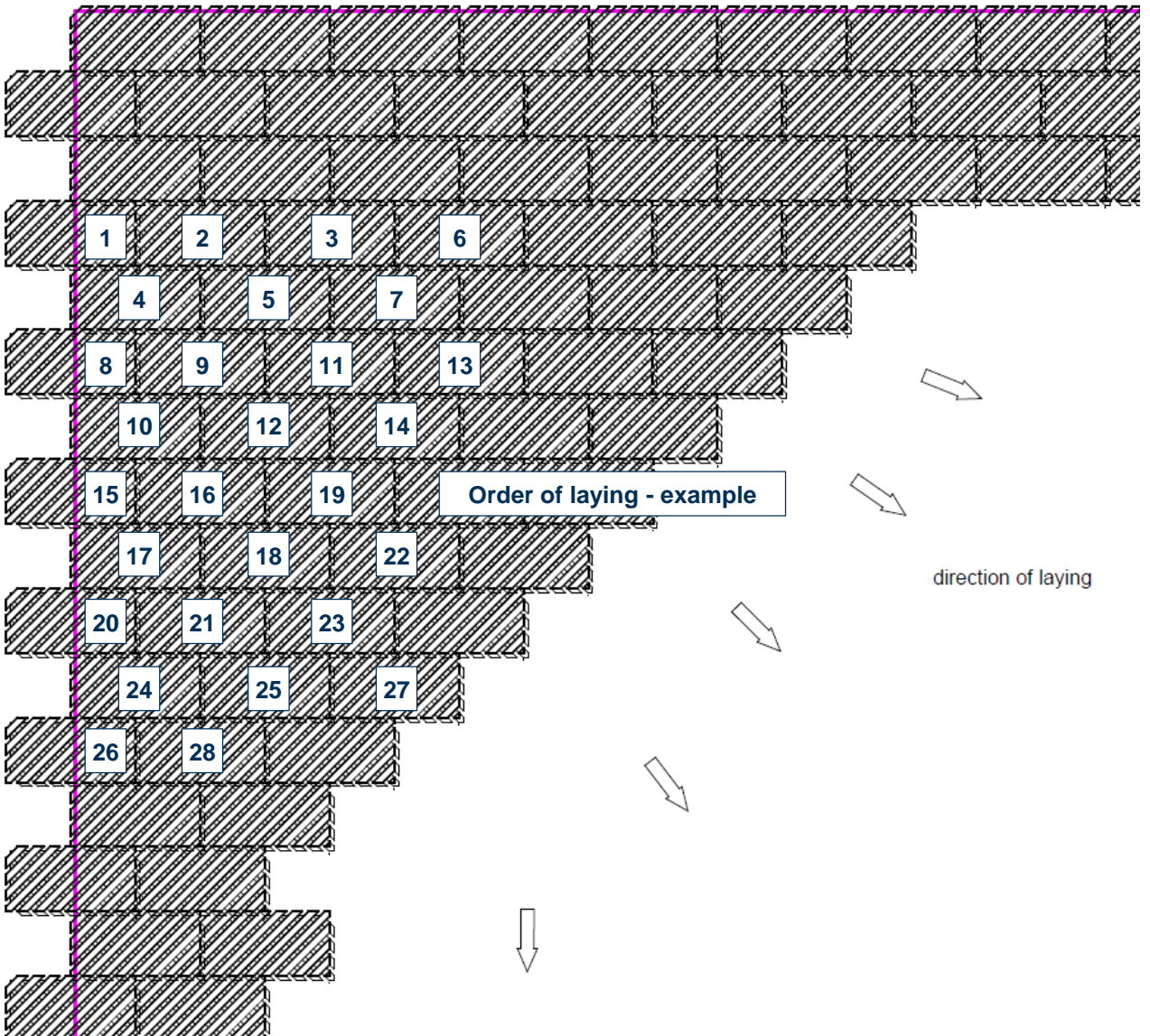


Fig. 3

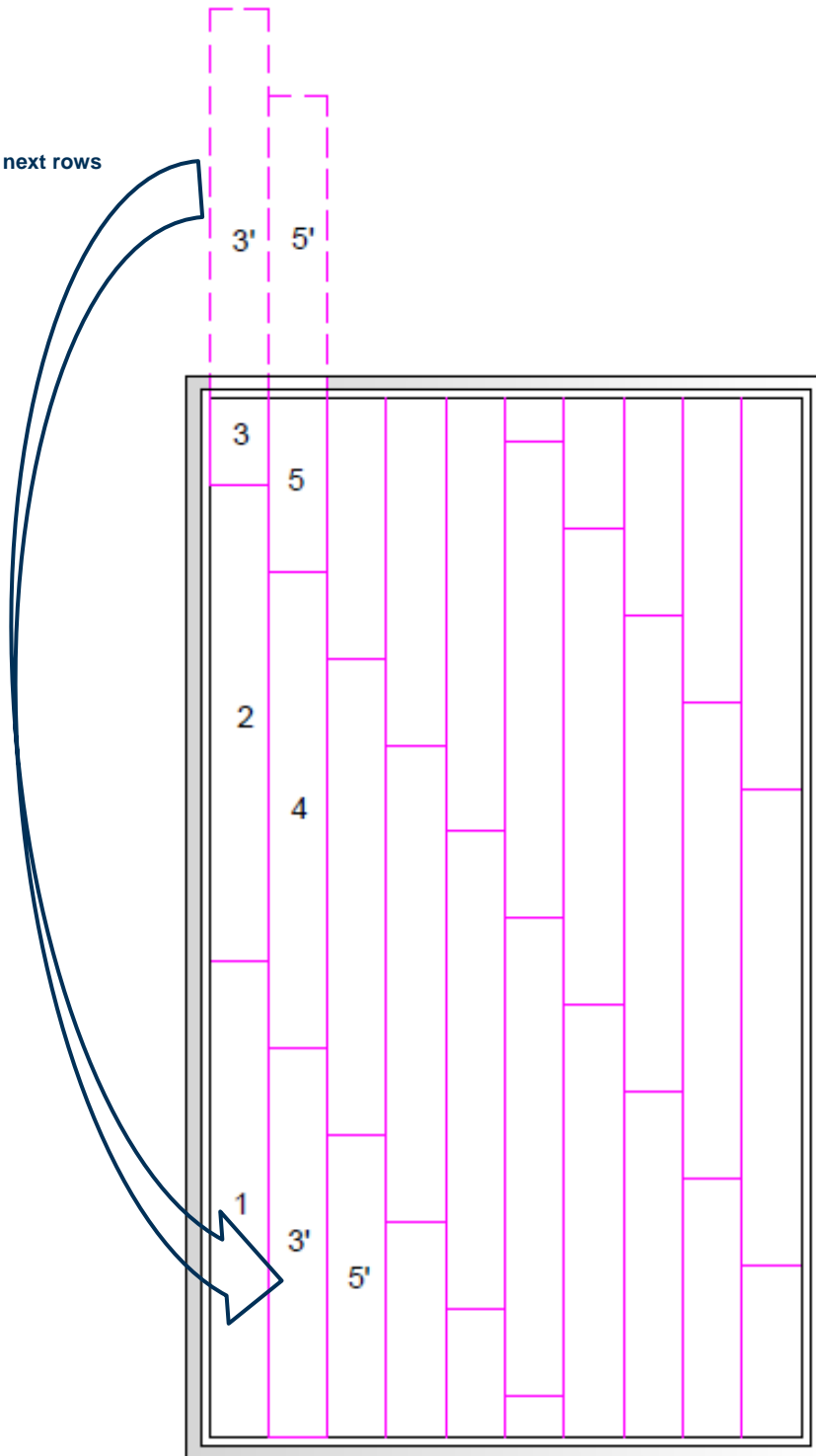
After having three full rows installed you can start laying the next panels diagonally.



2nd method – less area to be installed + walls around installation area

The foam sheets are laid according to the below scheme.

Use the leftovers for the next rows



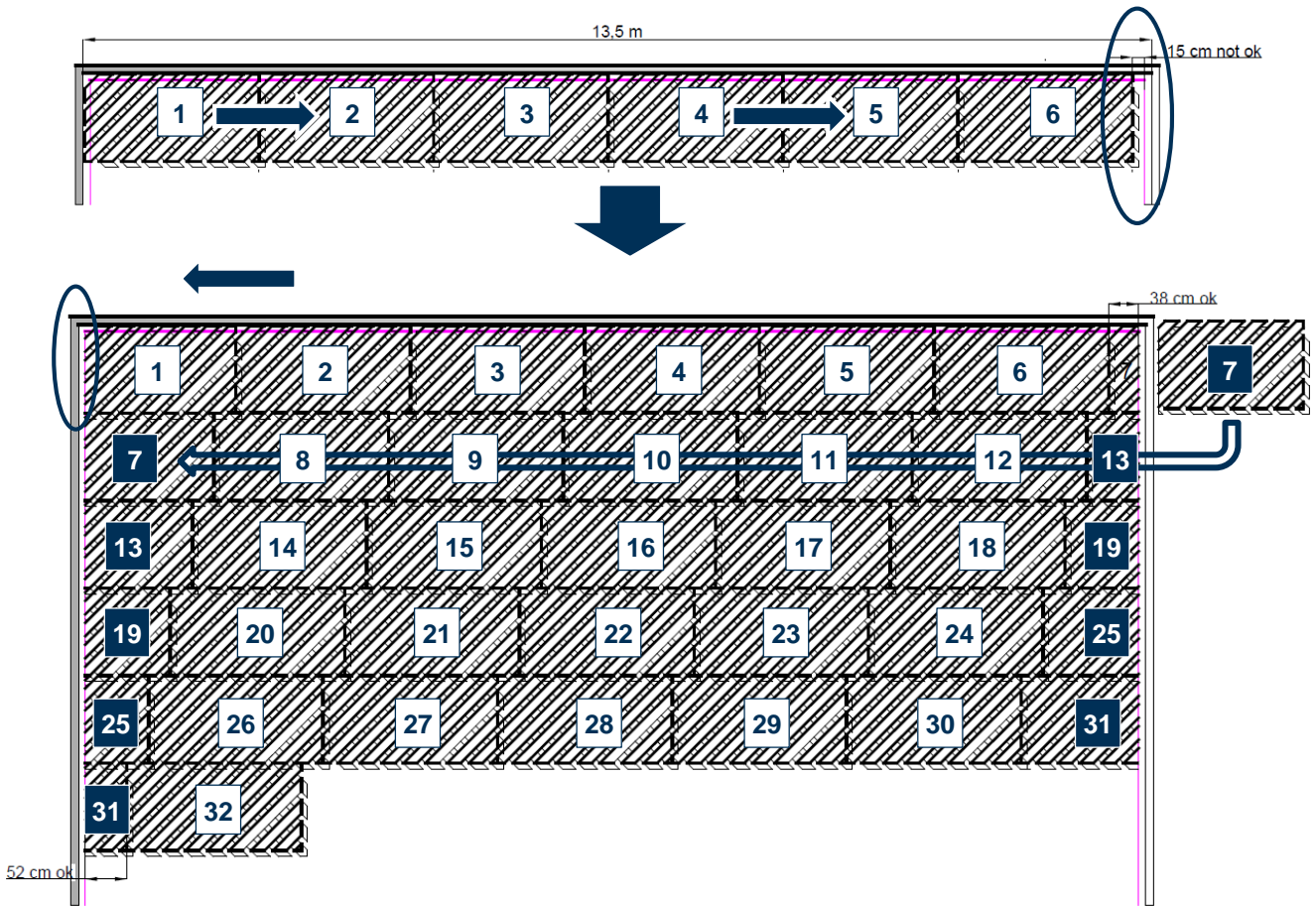
Example with sport hall about 13,5 m in width

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

If the length of the last panel is shorter than 38 cm you have to make 1st panel shorter and move all panels leftwards in order to obtain min length about 38 cm. Please keep always min length of the last\first panel not shorter than 38 cm.

After cutting of the last panel use the leftover for the next row. Use the same method for the next rows.

Each sport hall needs to be calculated separately in terms of layout of the panels.



After having full area installed by Flexlock panels you can start laying the top flooring.

III. Fixing the trap Door

Mark location where trap door will be placed.

Cut off the panels to expose the place (slot) (1,2)

Reinforce the weak points by using a piece of panel and fix it by glue, nails or screws (3)



Fig. 1



Fig. 2

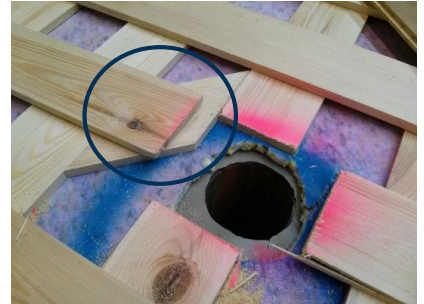


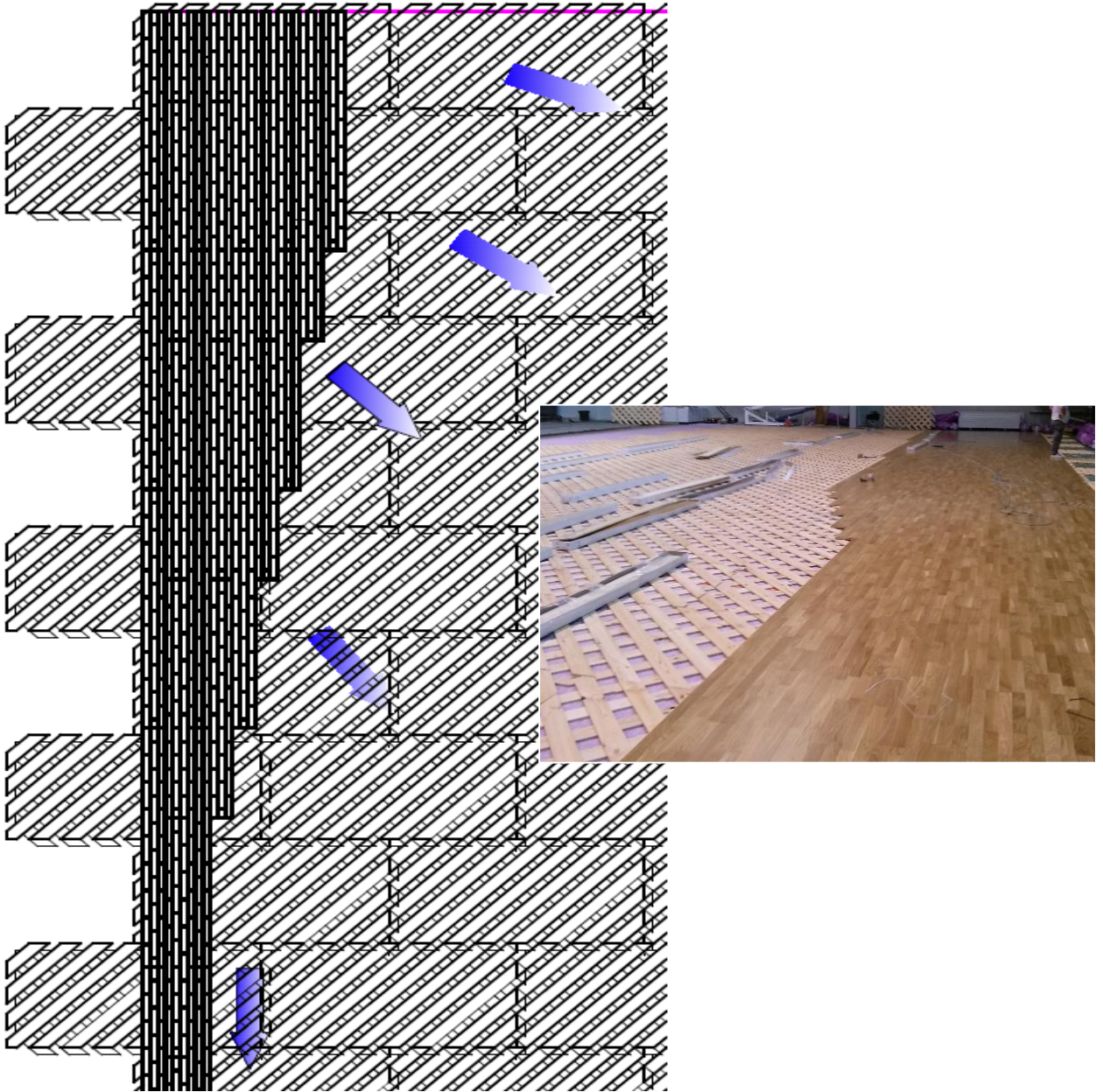
Fig. 3

IV. Laying of 22mm multilayer T&G flooring

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



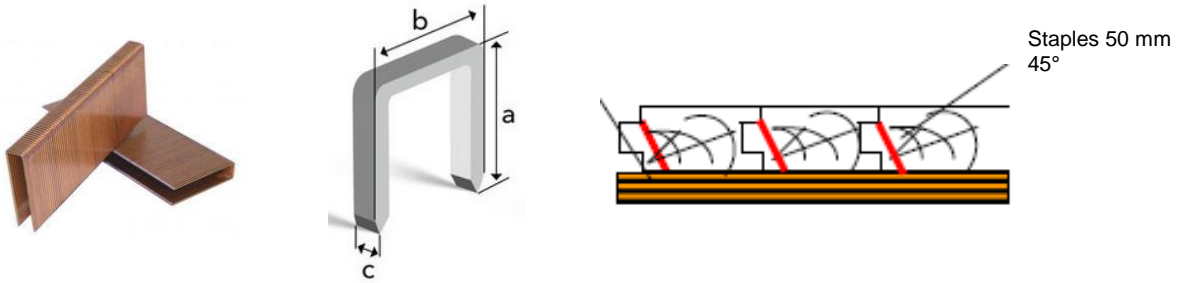
Install three full rows of the top flooring at the beginning. After having three full rows installed you can start installing a top flooring diagonally. **The top flooring should be install perpendicular to the length of the Flexlock panels.**



Install three full rows of top flooring first

The boards of the strip flooring shall be fixed to battens using 50mm pins. 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).

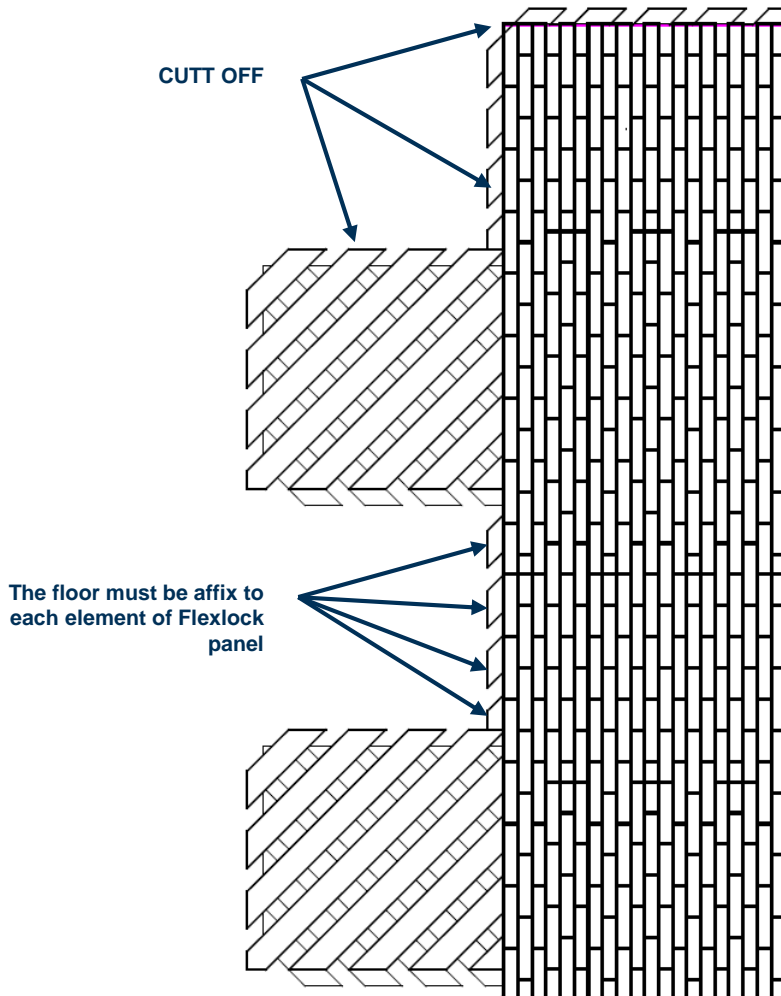
Recommendation: A=50 mm, B=10,8 mm, C= 1,4 x 1,6 mm



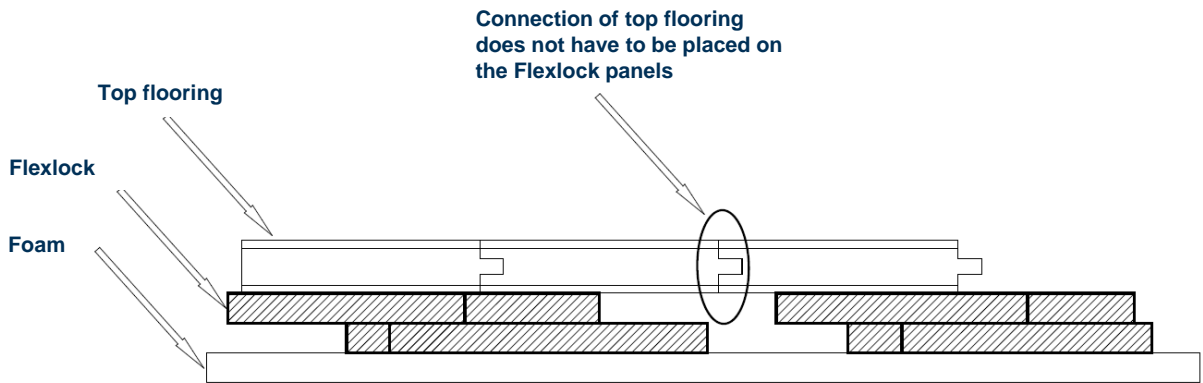
When an installation of the top flooring is finished cut off carefully all elements located out of the foam edge



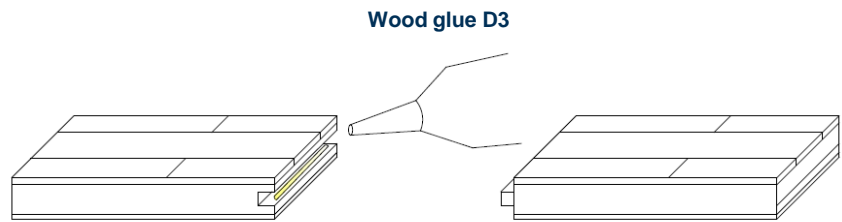
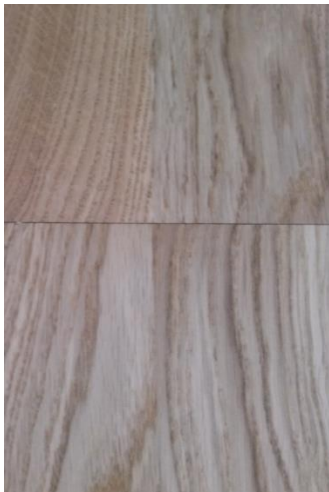
Please be careful and do not destroy the top flooring during cutting



Connection of the boards between short ends:
The edges can be installed out of the panels (see picture below)

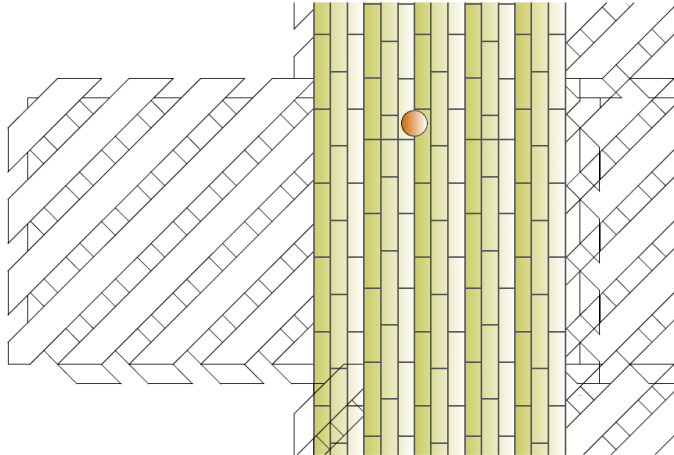


Must: In order to avoid gaps between short ends you can apply a wood glue inside groove

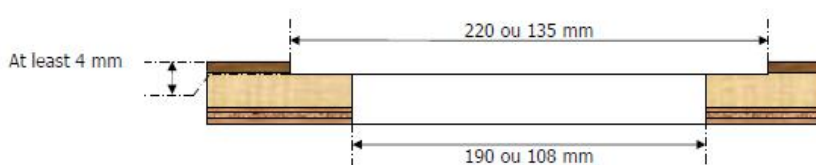


V. Installation of trap door

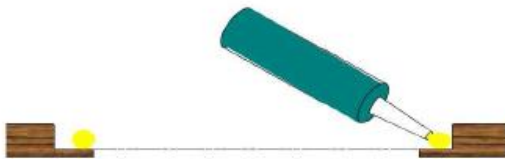
After having laid the top layer, locate the centre of anchor. Form a circular recess – diameter 210mm, check the diameter of the trap door before perforating the wooden floor



Form a circular recess adapted to the trap door you choose (check the diameter before cutting the wood floor)



Glue the frame using PU adhesive



Clean the frame carefully



VI. Games line marking

Permanent marking

- Blanchon Thixo Trace – Blanchon SA – Tel: +33 4 72 89 06 00 – www.blanchon.com
- Conipur 45 – BASF AG – Tel: +41 58 958 22 44 – www.conica.com
- Kipp – Indoor paint 2K for lines marking and Indoor paint 2C for painted surfaces – www.kipp-markierungen.de

Temporary marking

3M – reference 471 – 5 cm wide – www.3M.com