

Lumaflex Duo

Omnisports Compact, Speed, Training, Reference Multi-use

Installation Instructions



NOTA BENE:

2019

Lumaflex 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 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 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.

SUB-FLOOR & EVENESS

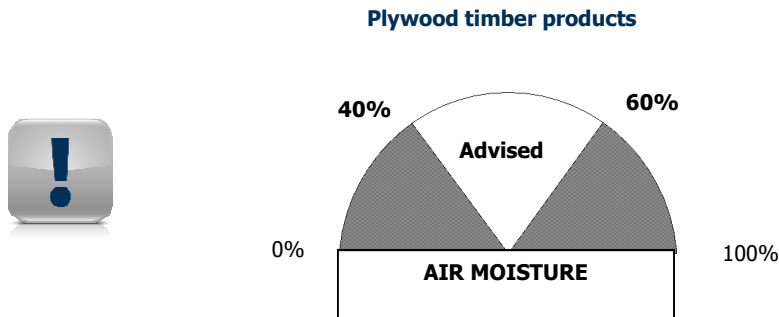
- The subfloor must be dry, flat, clean, strong and without cracks. Sports floor sub-floors: bumps and holes must not exceed 6mm under the 3m ruler or the limit defined by local regulation.
- The moisture rate in the screed must be in accordance with the local requirements, i.e. in France < 4,5% (concrete) - in Germany < 2% (concrete); anhydrite in France and Germany 0.5%.....
- If the subfloor doesn't meet the local standards, it will be necessary to flatten bumps and flashes with an adapted mortar and if needed to do a complete self levelling of the subfloor.
- Beyond 2% moisture rate (CCM method) or in case of rising moisture, it is usually necessary to waterproof the subfloor by a screed made of epoxy resin (or equivalent) before self levelling.

If any doubts or clarifications should be needed, please contact your local Tarkett representative for further information.

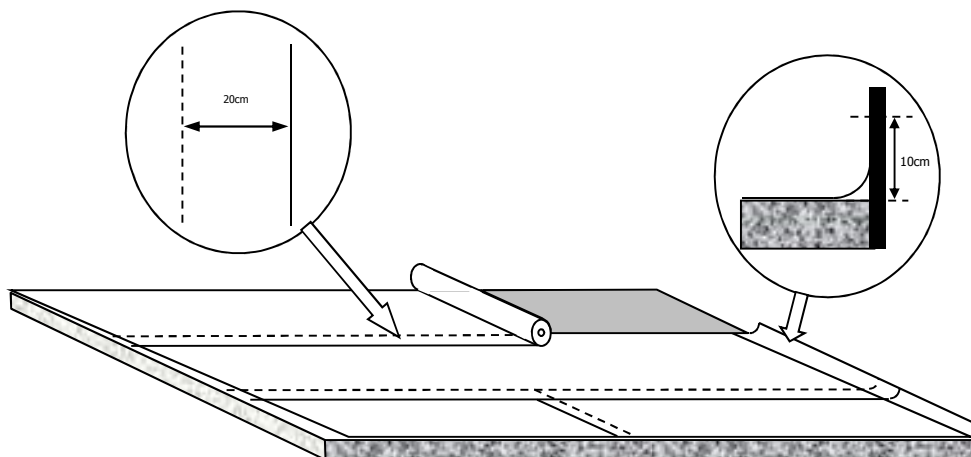
CONDITIONS DURING STORAGE AND INSTALLATION

The timber products have to be stored on their wedges, in a dry, heated – between 15 and 20°C (between 59 °F and 68°F) - indoor area. The packages of timber products must not be opened before being installed.

The temperature needed, in a room for a Lumaflex system should be between 15 and 20°C (between 59 °F and 68°F), the relative humidity must be between 40 and 60%.



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.

If any doubts or clarifications should be needed, please contact your local Tarkett representative for further information.

UNROLLING THE TARFOAM

For a Lumaflex system installation, roll out the foam down the length or across the width of the area. We recommend unrolling on the width of the room, for those that are less or equal to 24 m width in order to avoid seams in short ends. In order to lock up the rolls in the short ends, we recommend taping the rolls one to another.

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.

Do not forget to locate the centre of the anchors on the foam, that will help you to install the trap doors (see paragraph 7 "Fixing the trap door" picture 1).

In door openings, leave a 10cm wide strip free from tarfoam; this should be filled with a 15mm 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.

LAYING OF LUMAFLEX PANELS

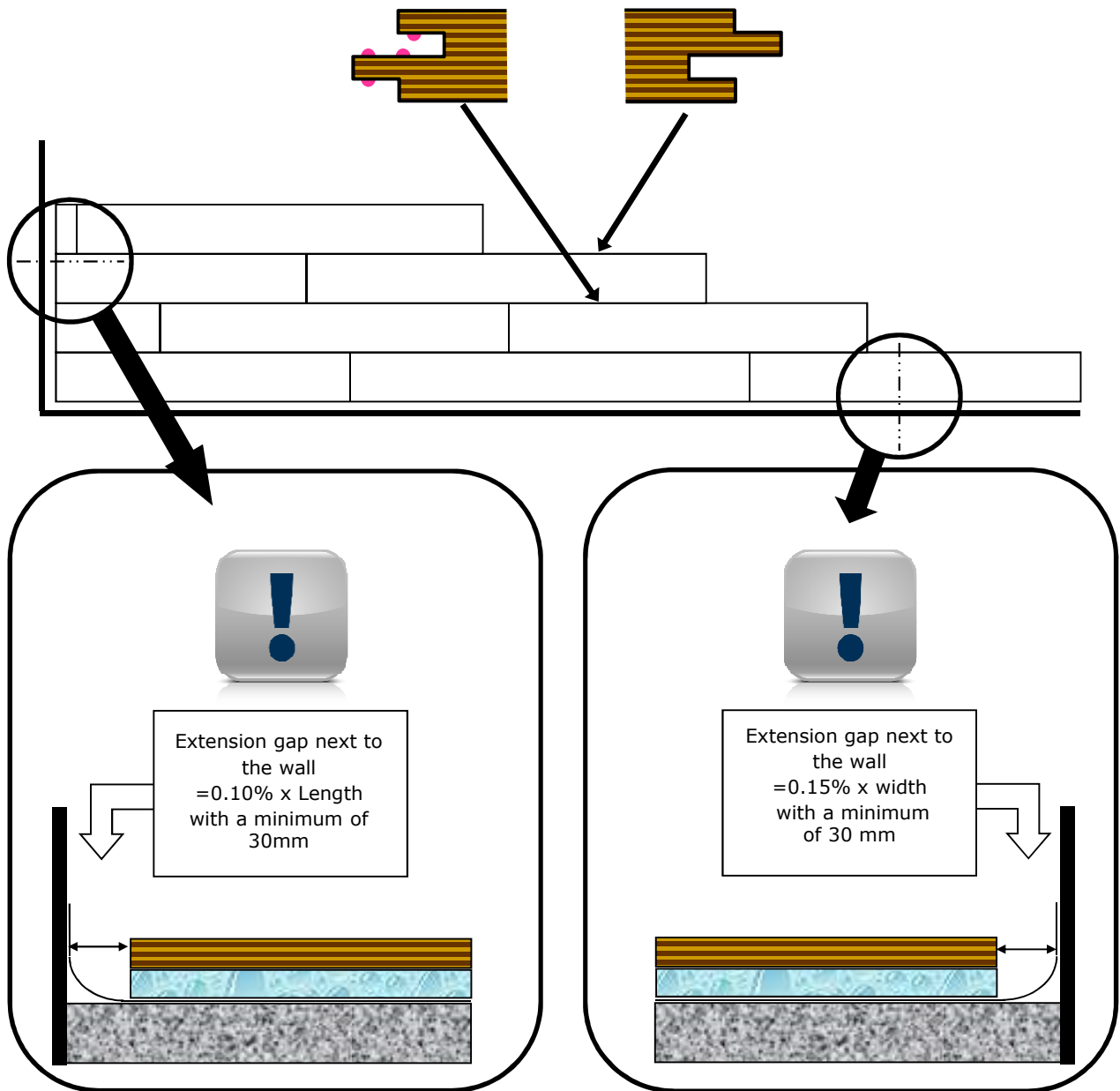


Backside of the Lumaflex panel – this side must be installed on the foam



Cut the Lumaflex panels in order to obtain an homogeneous resistance Before assembling (the 3 first strips on this photograph)

Laying process of the Lumaflex panels – Glueing tongues and grooves by using Lumaglue (5kg bucket)



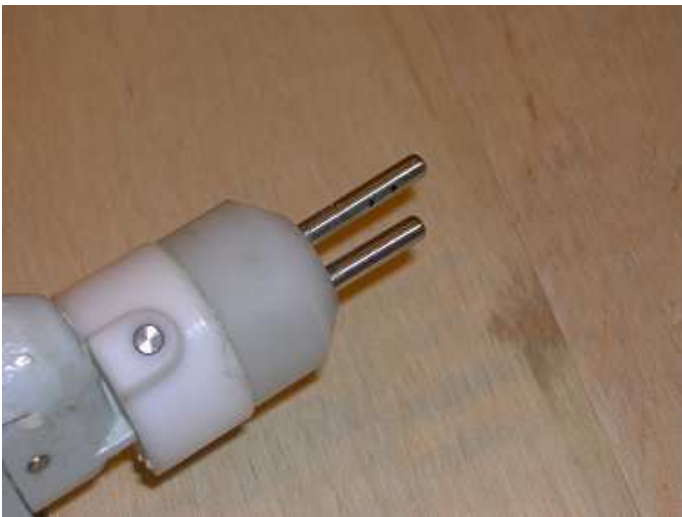
Check that the glue is well dispatched on tongue and groove.

If any doubts or clarifications should be needed, please contact your local Tarkett representative for further information.

A special nozzle can help to spread the Lumagluce efficiently on the tongues and grooves. Or simply use a regular glue applicator.

This nozzle often has to be cleaned up in order to prevent this item from getting blocked up. The glue consumption is about 10kg for an area of 200sqm. You must check that you handle the correct quantity of glue to obtain a good adherence of the panels and a homogenous structure, if less glue is used, the fixing will be considered to be non-compliant.

Lumaflex Nozzle



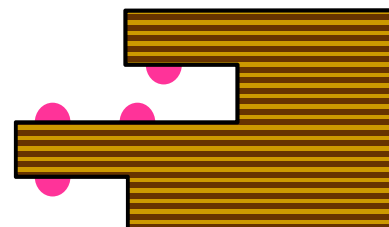
Glue applicator – manufacturer
Lamello reference LK10 (=10kg)
Pipe diameter 10 – 4m long –
gluing gun ref. LK0
Site: www.lamello.com



To use properly these items you need an compressor of 10 bars pression, with a tank capacity of 100liters and an air output of at least 275l per minute.



Don't forget to check constantly that the appropriate quantity of glue is applied.



Be careful

During the installation and gluing of Lumaflex Duo strips, you will have to pay attention to:
-The strips must be perfectly edge to edge and absolutely no space must be tolerated between the strips (in length and width).
-The extra glue must be immediately removed after applying.
A sanding of the surface can be handled by using a scrubber in order to eliminate all surface defects.
The use of a punctual screed can be required if spaces between strips are observed.
Follow the manufacturer recommendations.



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STORAGE CONDITIONS OF THE OMNISPORTS SPEED

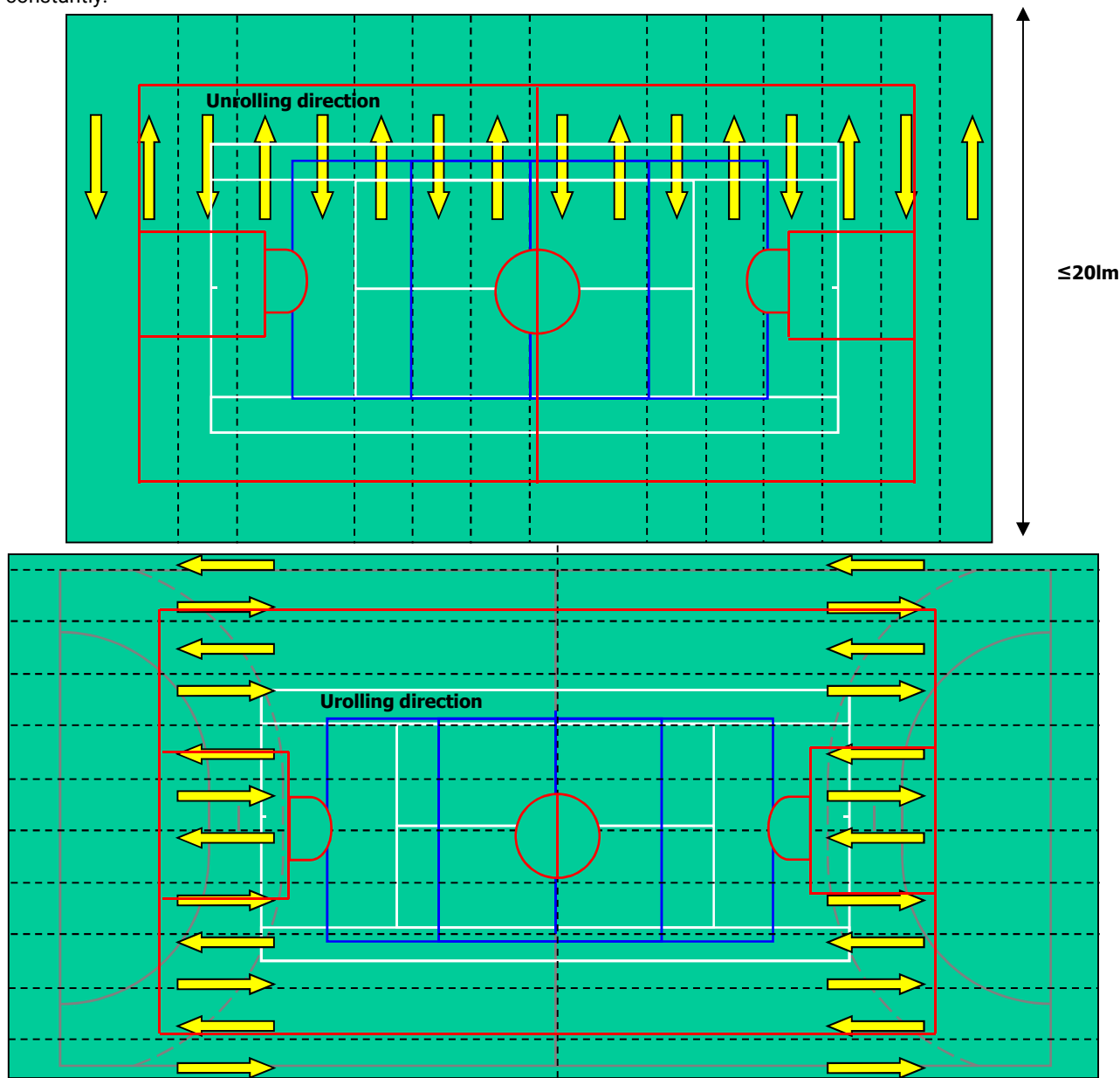
Omnisports rolls are to be stored horizontally, on a plain/flat, dry and without any ruggedness. They must not be stacked.



Positioning the rolls for glued installation

- The temperature at the subfloor level must be 12°C (53°F) in the room and 15°C (59°F) on the subfloor.
- Mark out the axes of the arena/gymnasium on the floor.
- Position the rolls at this centre line, following the layout numbers (1-2-3-4.....)
- Start from the length axis and unroll the strips.
- Unroll in alternate directions (except for the wooden patterns), positioning the sheets 1cm away from each other till the end of the 24h relaxing period. If necessary, re-cut the selvage.

Let the Omnisports rest for at least 24 hours before adjusting the sheets, edge-to-edge. During this time, the arena/ gymnasium must be kept within the temperature range specified above. Relative air rate moisture needs to be between 35 and 65%, this means that ventilation or in cold seasons, heating system must be running constantly.



If any doubts or clarifications should be needed, please contact your local Tarkett representative for further information.

Glued laying

Sub-floor must be clean, dry, smooth, un-cracked, compression resistant and free of any material that could prevent from a good adherence.

Roll halfway back the sheets carefully of the first half of the gymnasium. Avoid moving the sheets from their original positions.

Apply the glue to the uncovered half of the sub-floor, starting with the center strips and working outwards. Glue two or three sheets at the same time.

Apply the glue to the sub-floor in even coats. In order to ensure that the glue is properly transferred to the back of the floor covering, do not glue too large an area at any one time. For a normal absorbent sub-floor, glue consumption is about 200-300gr/sqm with a thin toothed spatula (TKB-A1 for Compact and TKB-A2 for the others)

Lay the covering on the sub-floor after the setting time specified by the glue manufacturer.

Then you will have to eliminate the air bubbles that can be located between the sub-floor and the covering by using a 50kg roller.

Important notice: Use only adhesives recommended by Tarkett. For more information, please refer to the list of recommend adhesives available on: <https://professionals.tarkett.com>

Grooving the Omnisports

This operation should be performed by using an electric tool with a curved blade as described, the dimension of the chamfer depends on the diameter of the welding rod and of the thickness of the product:

Omnisports Reference Multi-use – 6.1mm thick => welding rod 5mm – width of the trimming 4,3mm, depth 2mm

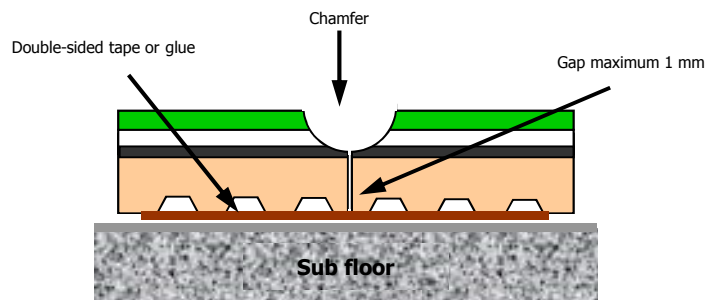
Omnisports Training – 5mm thick => welding rod 5mm – width of the trimming 4,3mm, depth 2mm

Omnisports Speed – 3.45mm thick => welding rod 4mm – width of the trimming 3.3mm, depth 2mm

Omnisports Compact – 2mm thick => welding rod 4mm – width of the trimming 3.3mm, depth 1,13mm



Trimming machine

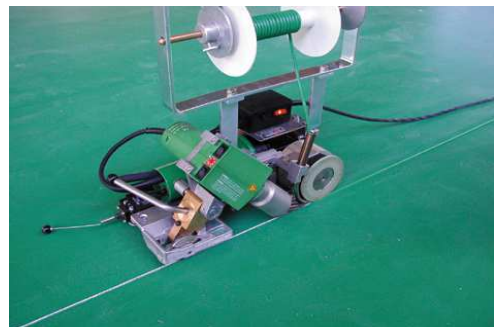


Welding the Omnisports

We strongly recommend, for this operation, an automatic cart, which will produce more regular, professional quality welds.

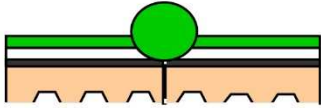
Before welding the Omnisports, first of all, try to weld on an apart piece of product, in order to check that the temperature, the pressure and the speed of this material enables to perform a good welding conditions.

To obtain an optimum result, we recommend to set the temperature on 450°C, 2m/min.

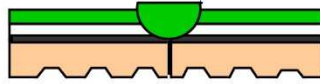


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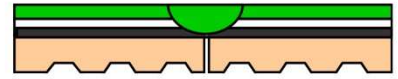
Cutting back the bead



Weld is hot (The presence of a small bump indicates the perfect level of fusion of the welding rod).



First trim before cooling



2nd trim after cooling

Tool required for trimming: "Quarter moon" knife or Mozart knife with the cutting guide.

Painting game lines

1 Permanent marking:

Kipp – Indoor paint 2K - www.kipp-markierungen.de

Conipur 45 – BASF AG – phone number +41 58 958 22 44 – www.conica.com

Follow the manufacturer's installation recommendations.

Other line paintings can be compatible with the Omnisports floor coverings. Please contact your technical service for any question or assistance.

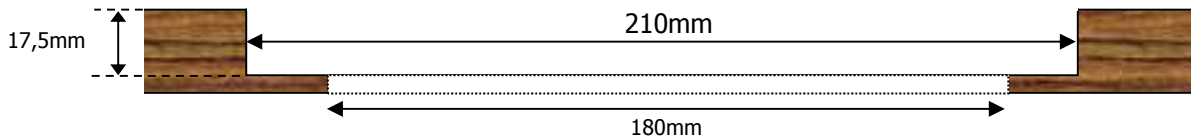
2 Temporary marking lines:

The producer of these tapes is 3M – reference 471 - 5cm width - www.3M.com

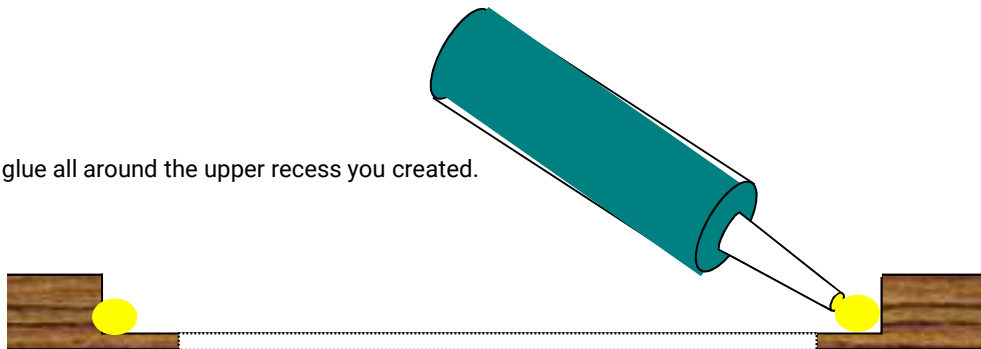
Follow the manufacturer's installation recommendations.

FIXING THE TRAP DOORS – UNFILLED ONES

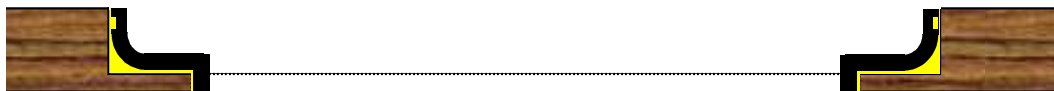
When installing the foam and the Tarflex panels, locate the centre of the anchor, form a circular recess according to the sizes mentioned on the drawing below (check the diameter and the depth of each part of the trap door, before perforating the wooden floor). Fill in the top of the trap door with a appropriate plywood by sticking it with a PU glue, then glue the appropriate PVC on the top.



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



Clean the frame carefully with acetone



Place the top filled with plywood on the frame



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