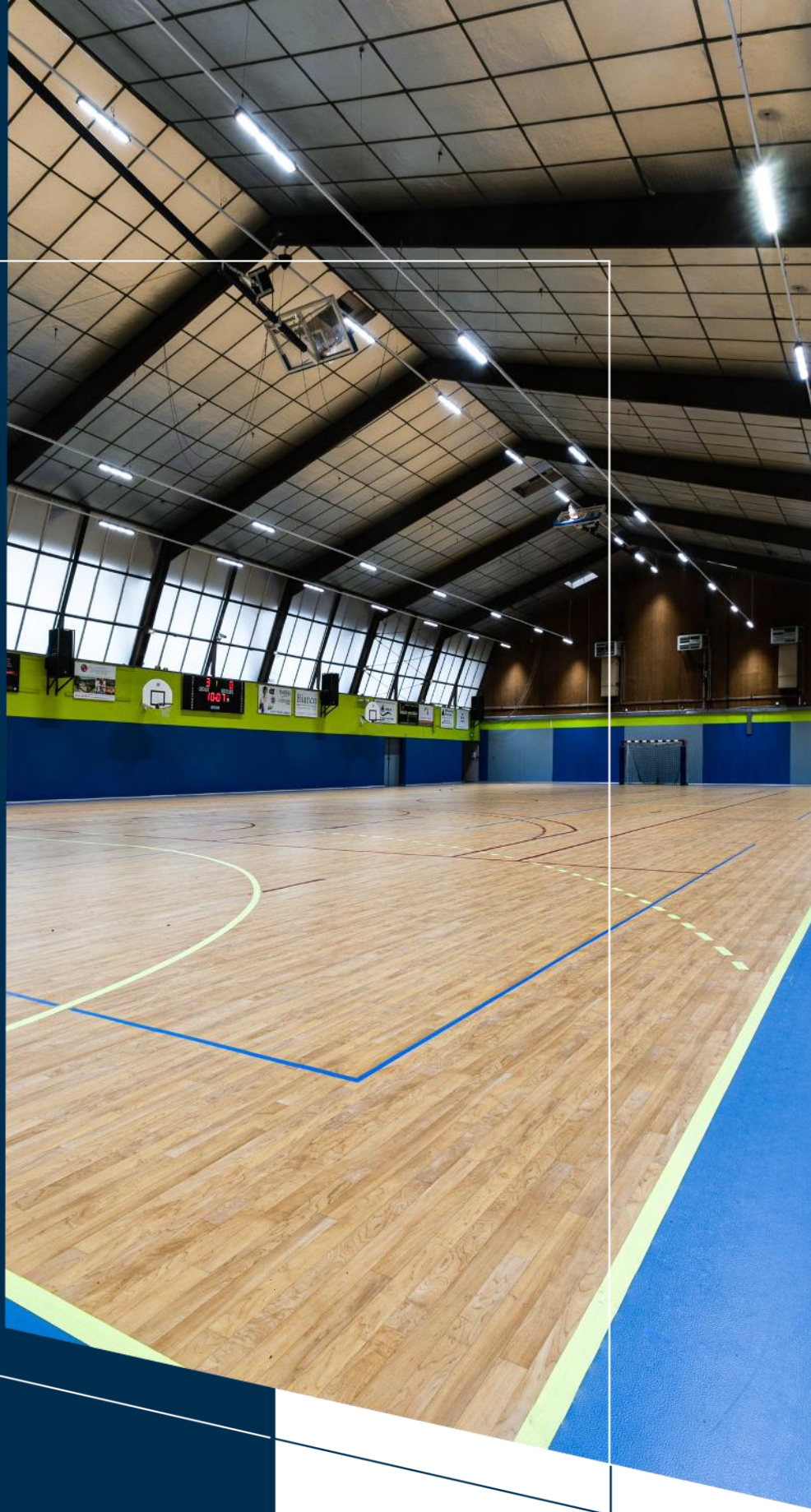
Installation instructions

LUMAFLEX ENERGY Omnisports Compact



Tarkett SPORTS INDOOR

07.2026

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.

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 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 ≤ 4,5%, Germany < 2%, Spain ≤ 3%, (CCM method),...

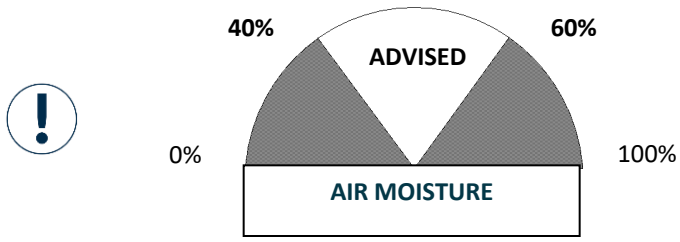
Subfloor	Requirements
Surface appearance	Smooth
Flatness	≤ 6mm under 3m ruler
Altimetry	+/- 1cm compared to the average
Moister rates for concrete	Local standard compliant
Moister rates for anhydrite screed	< 0,5%
Saw joints treatment	No
Cracks < 1mm treatment	No

Levelling compound is necessary if the surface appearence 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.

INSTALLATION

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 needs to be between 40 and 60%.

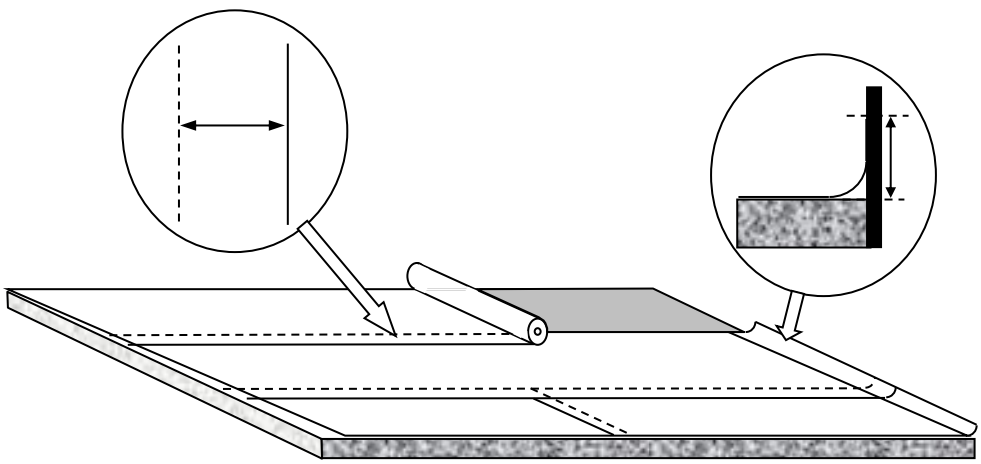


The packages of timber products must not be opened before being installed.
Timber products must be acclimatized in the hall for 24 hours before installation.
The temperature needed, in a room for a Lumaflex Energy system should be between 15 and 20°C (between 59 °F and 68°F).

2 – LAYING THE VAPOUR BARRIER: TARFILM

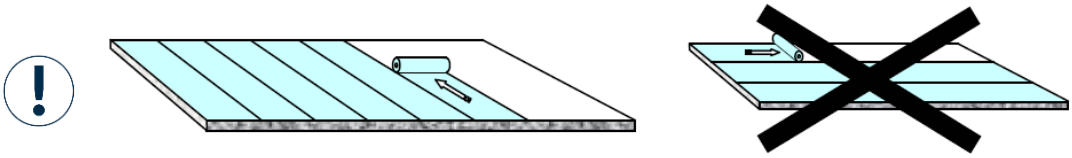
Lay the first sheet on the ground. The second sheet is laid with 20cm overlapping the first, then tape the both sheets together. We recommend to use strong adhesive tapes PVC. Do not forget to leave 10cm of Tarfilm along the edges against the walls. Ref. 1027006 (1 roll = 3m width x 40m length = 120sqm, 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 – UNROLLING TARFOAM 60 (15mm)



Roll out the foam down across the width of the room. ref 1027008 (1 roll = 1.6m width x 25m length = 40sqm) during 12 hours with no tension and without any storage on it.
We recommend unrolling in the width of the room in order to avoid seams in short ends.
If you may have to connect seam in short ends with another, 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 and tape rolls all together.

Do not forget to locate holes for poles on the foam, that will help you install the trap doors.

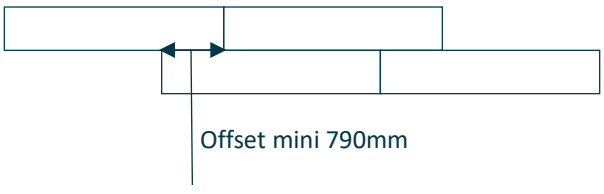
In door openings, leave a 10cm wide strip free from Tarfoam 60; this should be filled with a 15mm plywood for re-enforcement purposes. The same operation can be carried out to re-enforce parts that support heavy loads but you must keep in mind that these areas won't be in accordance with the EN14904 standard.

4 – LAYING LUMAFLEX ENERGY PANELS

Lumaflex Energy Panels : 2490mm length X 395mm width X 15mm thickness, sold by 2 panels (1.97sqm)

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. Minimum panels length : 790mm.



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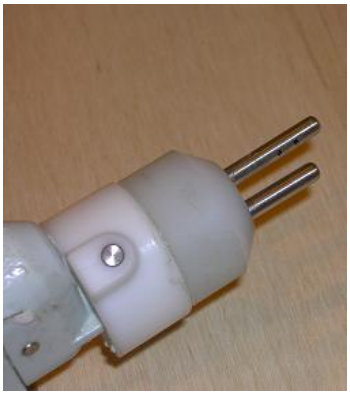
Laying process of the Lumaflex Energy panels – Gluing tongues and grooves by using Lumaglue ref. 1551075 (5kg bucket).

A special nozzle can help to spread the Lumaglue efficiently on the tongues and grooves, this nozzle often has to be cleaned up in order to prevent this item from getting blocked up. Otherwise, use a specific wood glue D3 in bottle with a regular glue applicator.

The glue consumption is about 5kg for an area of 300sqm. 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.

1551088 LUMAFLEX GLUING SYSTEM
1551089 LUMAFLEX NOZZLE

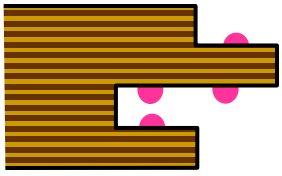
Lumaflex Nozzle



Lumaflex Gluing System

The glue tank needs 5 bars compression to be properly used.

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



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

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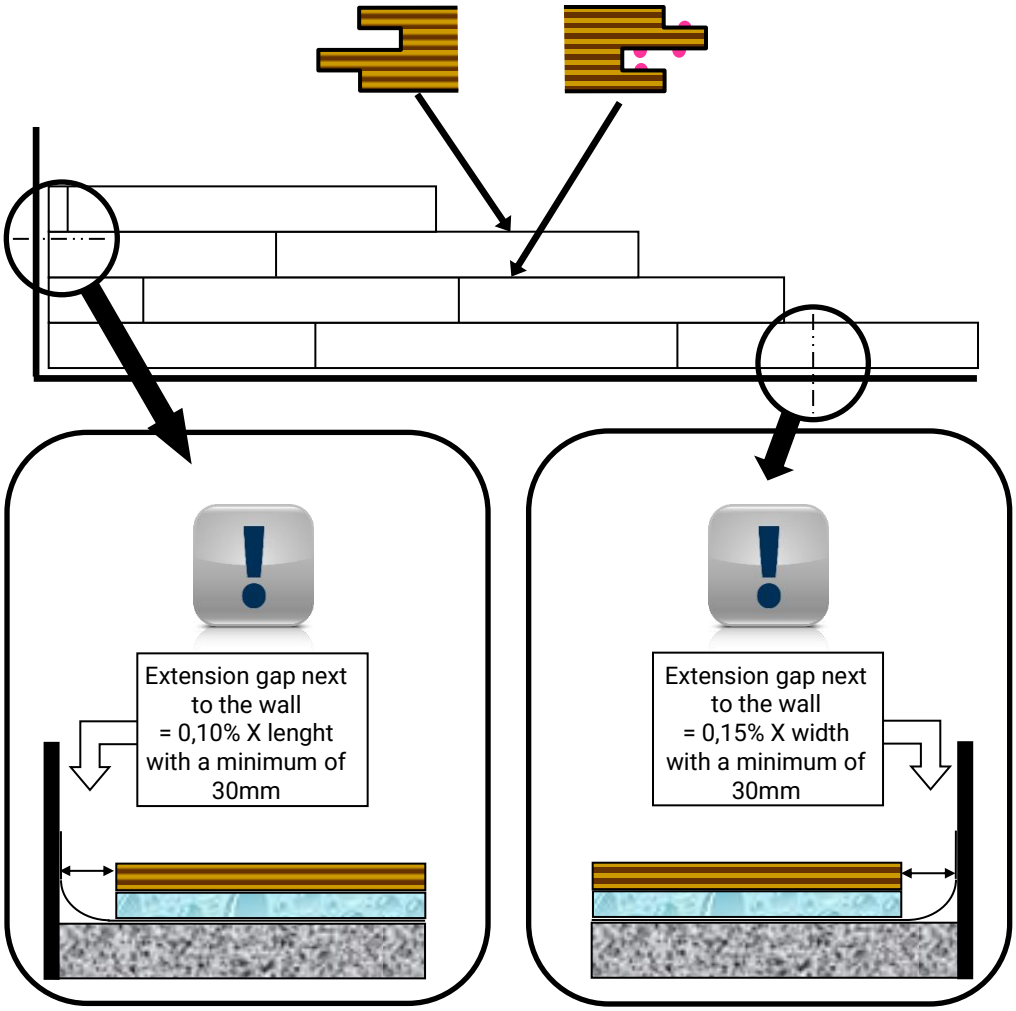
When laying the planks, the tongue must face the installer, never apply adhesive to this side.
Start laying from the left, the first row is not glued at all.
For the second row and all subsequent rows, apply the Lumaglue only among the lengths to the planks you are about to lay.
After laying the second row, use a chalk line to check and adjust the row to ensure it is perfectly straight.
Respect extension gap all around the room.

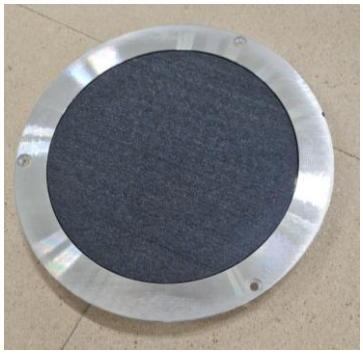


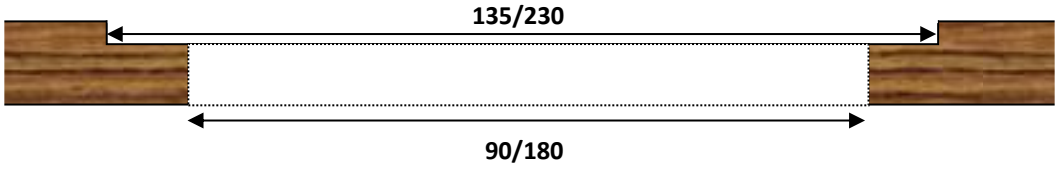
The Lumaflex Extreme planks must be perfectly edge to edge and absolutely no space must be tolerated between the strips (in length and width).
The excess glue must be immediately removed after applying.
A surface sanding can be handled by using a scrubber in order to eliminate all surface defects.
The use of a punctual coating can be required if spaces between strips are observed.
Follow the manufacturer recommendations.

INSTALLATION

5 – FIXING THE TRAP DOORS

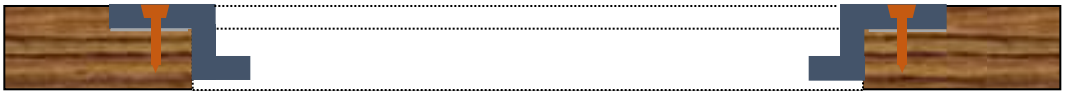
When installing the Tarfoam 60 and Lumaflex Energy planks, locate the center of pole holes, form a circular recess according to the sizes mentioned on the drawing below (check the diameter and the depth of each part of the trap door, before perforating the wooden floor).





Put the PU mastic all around the upper recess you created

Glue and screw the frame on plywood



Place the PE cover and glue the Omnisports Compact

INSTALLATION

6 – OMNISPORTS INSTALLATION

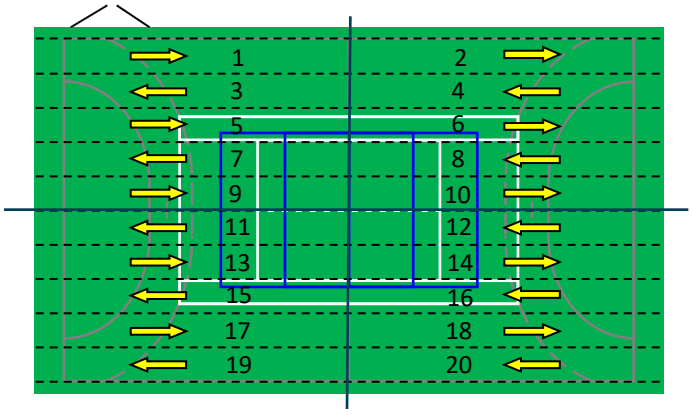
After installation, ensure that the temperature is always maintained between 15 and 28°C
Relative air rate moister needs to be between 35 et 65%. .

The temperature in the room must be ≥ 15°C and for the subfloor ≥ 12°C.
Relative air rate moister needs to be between 35 et 65%.

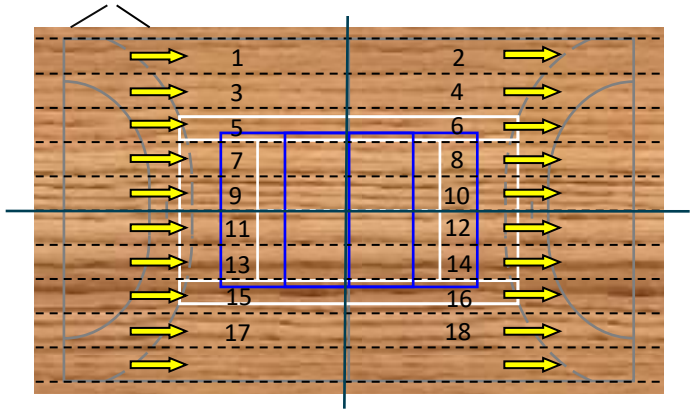
Omnisports rolls are to be stored horizontally,
on a plain/flat, dry and without any ruggedness.
They must not be stacked.

Tarkett Sports recommand to install rolls in the play direction.
Same batch for all the same room.
Mark out tranversal and longitudinal axes.
Unroll the rolls along the longitudinal axis, following the chronological rolls manufacture order, leaving a space of 1 cm between them for at least 24 hours.
If necessary, re-cut the selvedge
Let the Omnisports rest before adjusting the sheets, edge-to-edge, gap < 1mm.

Uni :
alternate direction



Wood patterns :
same way



INSTALLATION

7 – OMNISPORTS GLUING

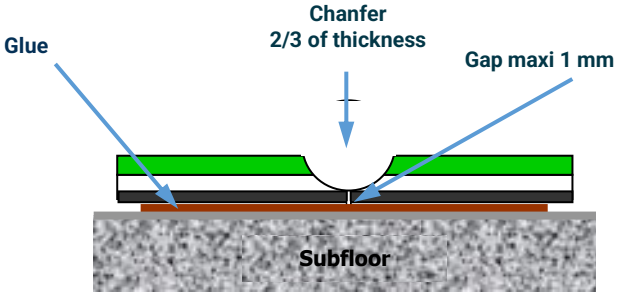
Roll half way back the sheets carefully on the first half of the gymnasium and start from the longitudinal axis to avoid moving the sheets from their original positions.
Apply the acrylic glue on the uncovered half of the sub-floor, starting with the center strips and working outwards.
Only glue the adequate surface of floor covering, considering the drying time in order to make the glue transfer effective to floor covering back (maximum two or three sheets at the same time).
Glue consumption is about 250-300gr/sqm with a thin toothed spatula TKB A1.
Lay Omnisports rolls on the sub-floor and make sure that setting time specified by the glue manufacturer is respected. Start by the first one along the longitudinal axis.
Press all the surface glued with cork to eliminate the air bubbles located between the sub-floor and Omnisports then use a 50kg heavy roller, this will enable the glue to transfer perfectly on Omnisports.
Repeat the same operations for the second half Omnisports sheets and the second half of the gymnasium.
Don't leave any heavy load on Omnisports during the whole glue drying time (72h).

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

8 – HOT WELDING

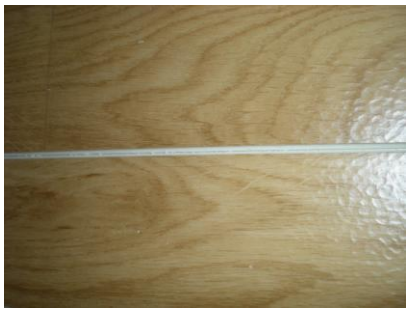
24 hours after gluing

The grooving :
This operation should be performed by using an electric tool with a "U" shaped blade as described, for any 5mm diameter welding rod the width of mill must be 4.3mm and the maximum depth must be 2/3 of the thickness.



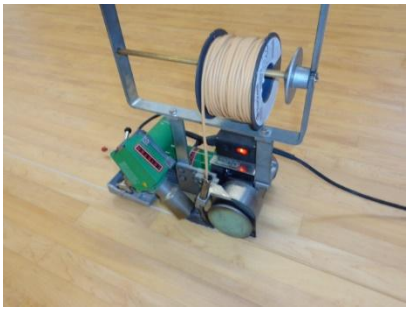
Omnisports Compact

INSTALLATION

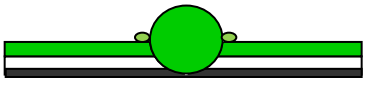


The welding :

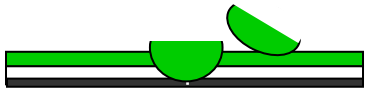
We strongly recommend, for this operation, an automatic cart (Leister or similar), which will produce more regular, professional quality welds.
Before welding Omnisports, first of all, try to weld on an apart piece of product, in order to check that the temperature and the speed of this material enables to perform a good welding conditions.
To obtain an optimal result, we recommend to set the temperature on 450°C, speed: 2m/min.



The trimming :

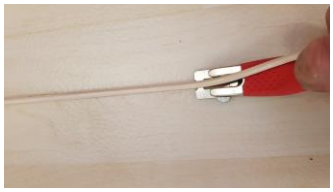


The presence of a small bump indicates the perfect level of fusion of the welding rod.



First trim with a Mozart knife and wedge before cooling.

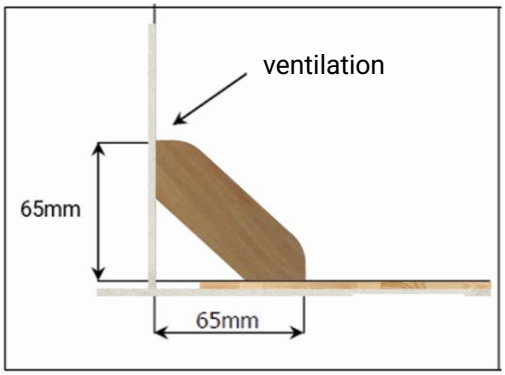
Second trim with a Mozard knife after cooling.



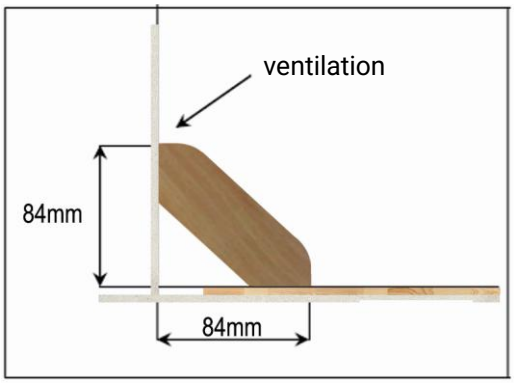
INSTALLATION

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.

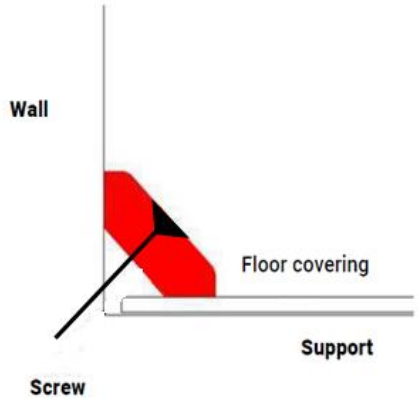


Standard



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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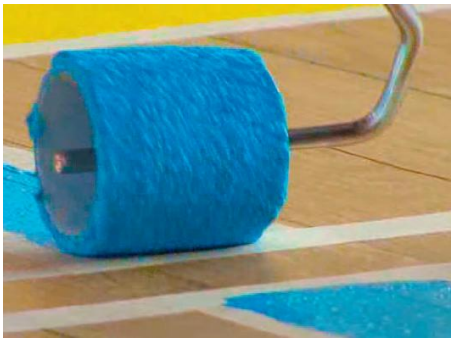
10 – PAINTING GAME LINES

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 pour les lignes de jeux et Kipp 2K PUR Surface Paint pour les surfaces
  www.kipp-markierungen.de
- Bona SuperSport Line Paint – Bona – Tel: +4640385500 - E-mail: bona@bona.com
  www.bona.com
- Conipur 3100 – BASF AG– Tél. +41 58 958 22 44 –www.conica.com

Follow the manufacturer's installation recommendations