

**INSTALLATION OF FLOORING WITH BEAD ADHESIVE
NATURFLOOR-W**

PARKLEX PRODEMA

How to install PARKLEX PRODEMA flooring with bead adhesive

NATURFLOOR-W is designed for use in the most demanding indoor environments.

NATURFLOOR-W planks can be installed using bead adhesive. This installation system is suitable for interior flooring.

Panel thickness: 14 mm (0.55")

Panel dimensions:

2450 mm x 188, 290, 590 mm

96.46" x 7 1/2", 11 1/2", 23 1/4"

NATURFLOOR-W is available with a choice of 3 different board joint options:

Non-bevel joint:

Boards have a conventional 'closed' and flush joint.

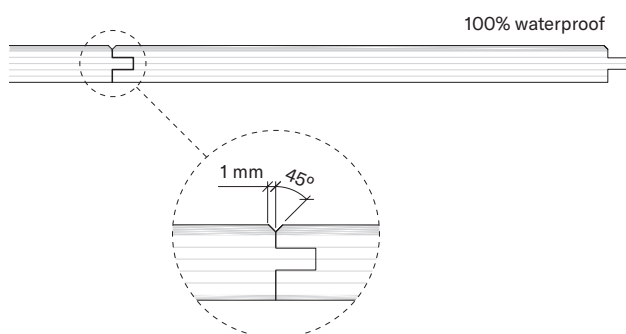


Bevel on the long side only:

Boards have a bevelled joint only at their longitudinal edges.

Bevel on all sides:

Boards have a bevelled joint to all 4 edges.



Before installing:

Measure the subfloor humidity level to confirm it meets our minimum requirements. The subfloor must meet specific requirements before installing the material or storing it on-site:

- It must be solid and consistent, without risk of failure or subsequent deformation.

- The moisture content of the concrete slabs must meet one of the following requirements:

1. Calcium carbide test (CM) (ASTM D 4944):

The moisture must be less than 2.5%.

2. Anhydrous calcium chloride test (ASTM F1869):

The limit for installing flooring with adhesive is < 3 lbs / 1000 ft² / 24 h. An insulation mat should be placed over the concrete subfloor, so the limit would be < 7 lbs / 1000 ft² / 24 h.

3. Relative humidity test (ASTM F 2170):

The moisture level for installing the flooring is < 75%.

- The subfloor must ensure that the moisture content complies with the standards established for natural wood flooring.

- It must be completely clean, free from oil or residues from other materials.

- It must be level, with a maximum deviation of 0.15%, or 3 mm over 2000 mm.

- To ensure that the subfloor meets the above conditions, a self-leveling compound should be applied according to the manufacturer's instructions.

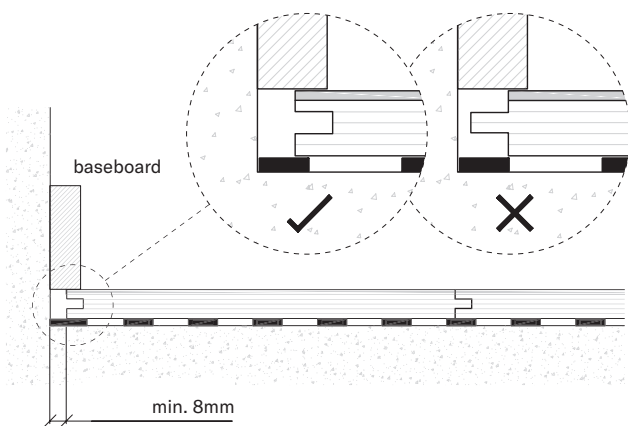
If laying on top of an existing wood subfloor, the new boards should be installed at 90° to the original, if possible.

It is generally advisable to install the material parallel to the main source of light, in a longitudinal direction.

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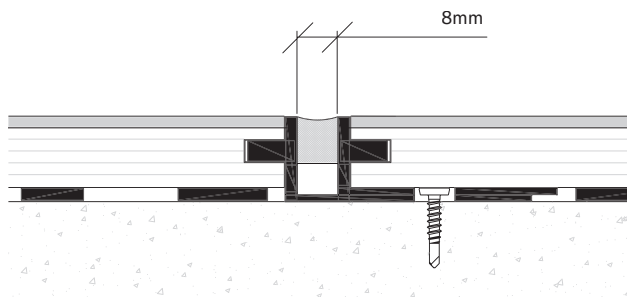
Expansion joints

Due to the material composition and its expansion/contraction movements, it is essential to leave expansion joints/gaps of 8 mm ($\geq \frac{5}{16}$ ") around the perimeter of the area of installation, next to walls and obstacles. This distance must be consistently maintained with the temporary use of wedges during the installation process. The floor should never be installed in direct contact with the walls or other fixed elements of the construction, or have a joint/gap less than 8 mm ($\frac{5}{16}$ ").



The floor must be allowed to expand, for example, next to thresholds, door frames, heating pipes and adjoining floor finishes. It is also important to ensure that a skirting board covers the contraction that occurs during the winter, as much of this contraction is at the perimeter.

For installations equal to or longer than 8m (26') in either direction, we recommend the installation at least one intermediate expansion joint of 8 mm ($\frac{5}{16}$ ").

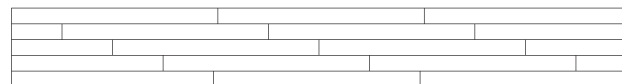


Installation patterns:

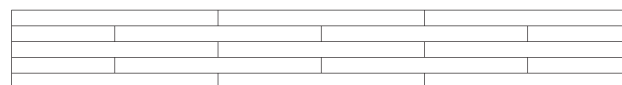
Random layout



Running bond 1/4



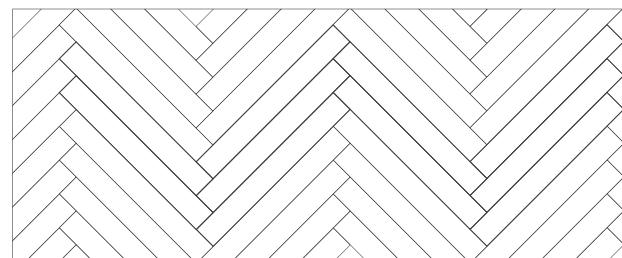
Brick bond 1/2



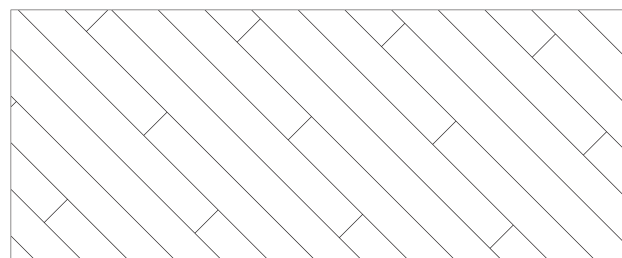
Multiple board widths



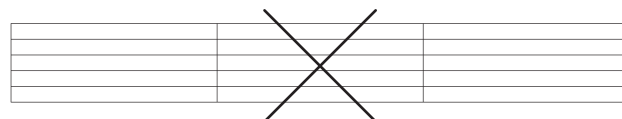
Herringbone tread



Boards run at 45°



Incorrect method: stack joint

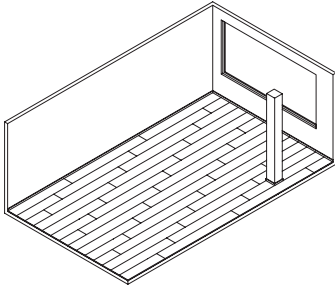


In order to install NATURFLOOR-W following other installation patterns, please consult the PARKLEX PRODEMA technical department.

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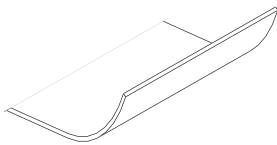
System components

Layout

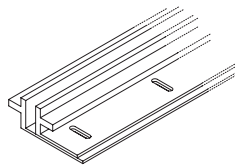


Accessories

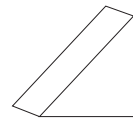
Insulation mat



Expansion joint



Wedge



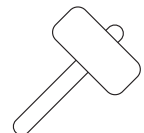
Elastic adhesive



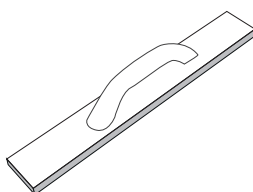
D3/D4 PVA adhesive



Hammer

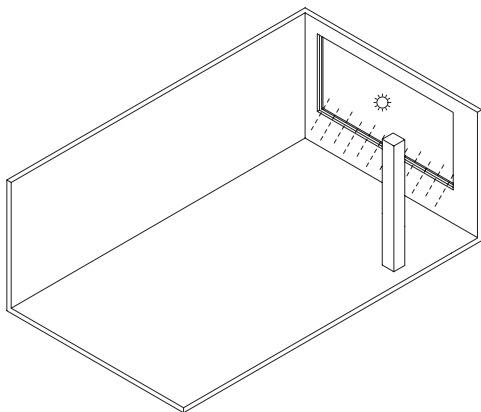


Tapping block

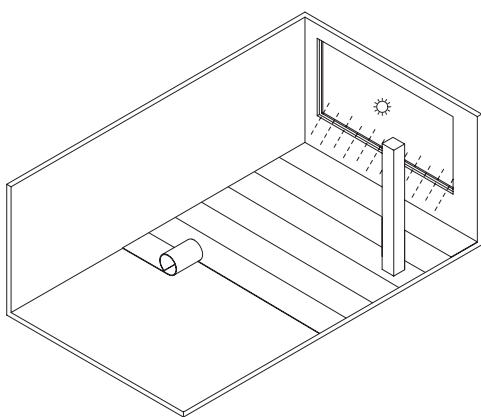


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Prepare the surface of the subfloor based on adhesive manufacturers recommendations.

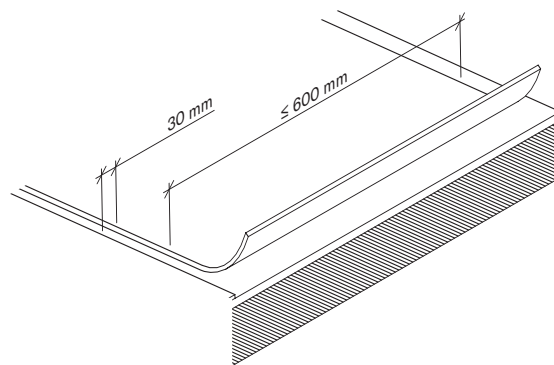


Place the underlayment over the subfloor in the opposite direction to board. The underlayment acts as acoustic insulation and moisture protection, and absorbs minor irregularities in the subfloor. Only underlayment with an integrated moisture barrier must be used.



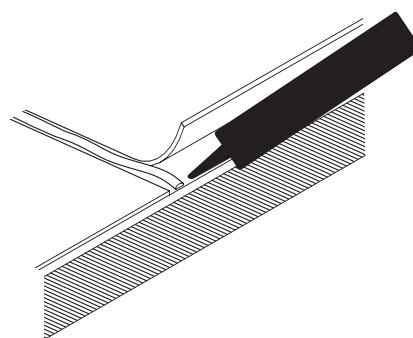
When installing with bead adhesive, the underlayment must allow for the positioning of elastic adhesive lines to the subfloor at certain points.

Cut 30 mm (1 1/4") wide slots off the insulation underlayment, following its same direction. The maximum separation between slots is 600 mm (24"), with a minimum of 5 lines of adhesive per full board length of 2450 mm (96").

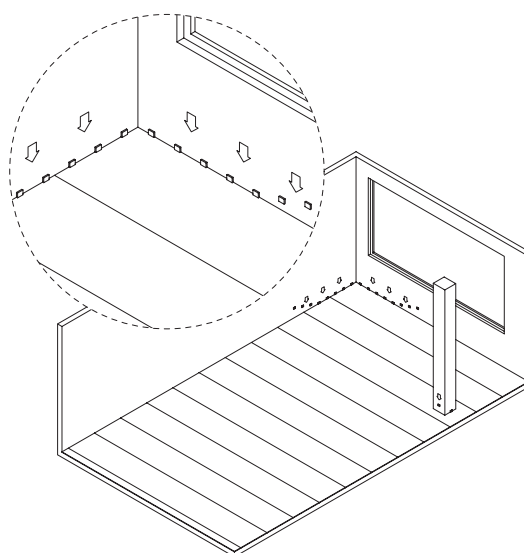


Apply a continuous line of elastic adhesive from end to end in between the slots, over the prepared surface of the subfloor, according to the adhesive manufacturing instructions.

Consult PARKLEX PRODEMA technical department for the most recent adhesive application instructions.

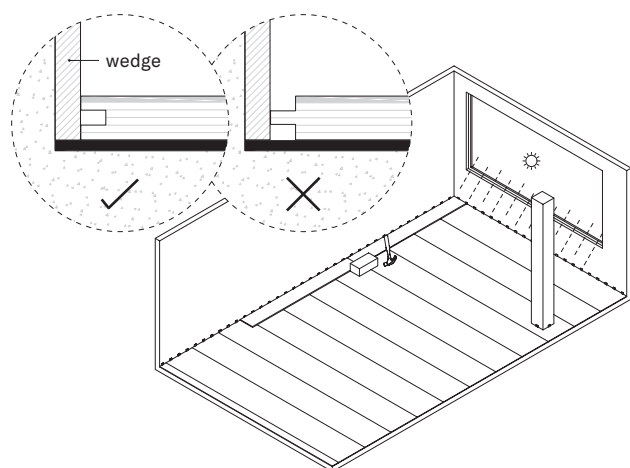


After having placed the adhesive lines, ≥ 8 mm temporary wedges must be placed at the perimeter, next to walls or other fixed points, to allow for future expansion/contraction.

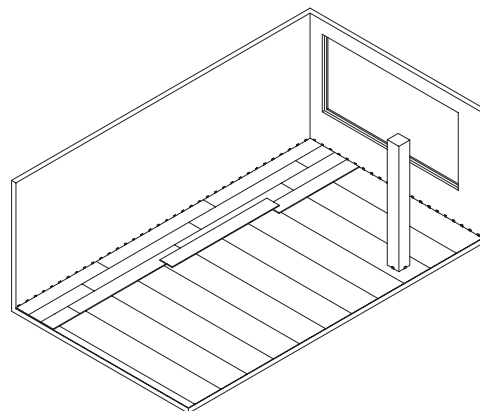


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After selecting the direction of the grain, place the first row of boards with the groove facing the wall, ensuring that the line is consistent using a string-line. The following row should be started with the off-cut from the previous row, ensuring that the heads of the two consecutive rows are an absolute minimum of 450 mm (18") apart, with an optimum offset of 600 mm (24").



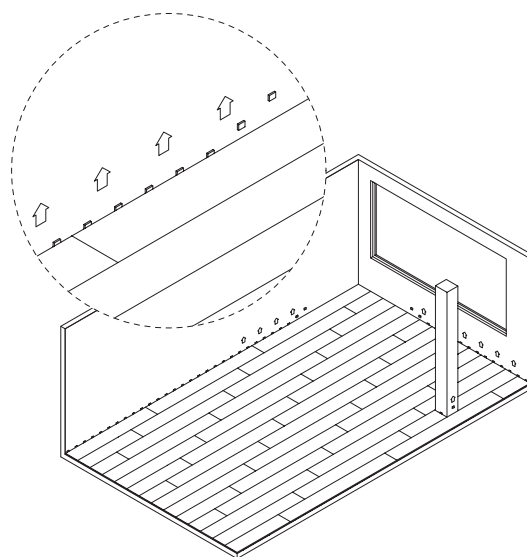
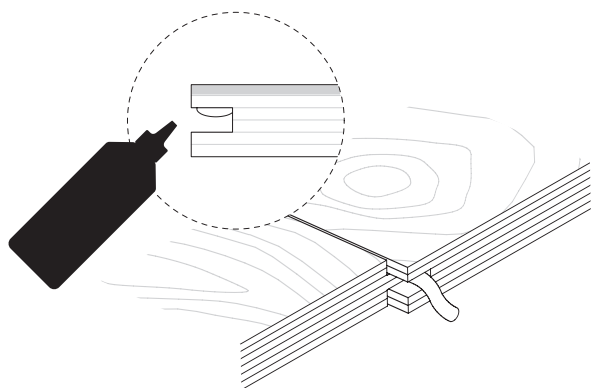
Place next rows in the same way.



Remove the temporary wedges after 24 hours and fit a skirting board with a suitable thickness to cover the perimeter joints.

On this row, apply continuous lines of D3/D4 PVA adhesive (such as Titebond III) just inside the upper edge of the groove to ensure that the tongue is fully coated when the boards are tapped together. This ensures a water-resistant finish, and maximum strength at the joint. It is essential that any excess surface adhesive visible at the joints is immediately and completely wiped off with a damp cloth, or it will be visible when dry. Adhesive is of no use at the back of the slot, an area designed to attract excess adhesive inside the joint.

In order to ensure a perfect insertion, tap against the tongue of the boards. Use a tapper/tapping block to prevent the tongue from deforming.



How to install PARKLEX PRODEMA flooring with bead adhesive

PARKLEX PRODEMA provides three specific applications by using bead adhesive:

- Application over underfloor heating
- Application in humid environments
- Application with multiple widths

Application over underfloor heating

The bead adhesive system on radiant floors can only be installed with planks that are 188mm (7 1/2") wide.

Specific materials:

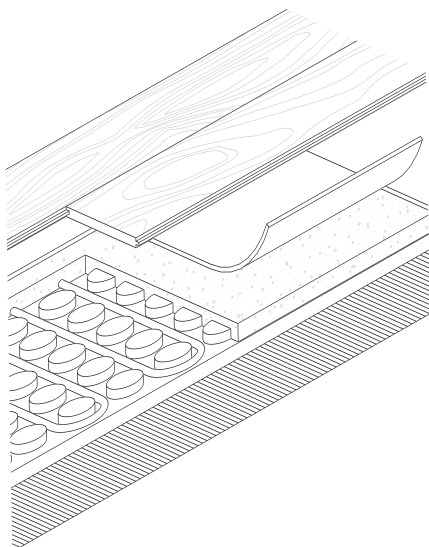
- Sound Silver insulation underlayment*
- Decibel 2 insulation underlayment*

* Provided by PARKLEX PRODEMA

NATURFLOOR-W can be installed over radiant heating provided the installation fully complies with a series of conditions regarding the commissioning of the heating circuit, the NATURFLOOR-W installation and its subsequent operation.

The humidity must be below 2%.

Underfloor or radiant heating systems work either by warm water circulation or by electrical mats. In these systems, the coils formed by the heating pipes or mats are embedded into a variety of subfloors. Please refer to the specific detail and instructions supplied by the installer of the system in place.

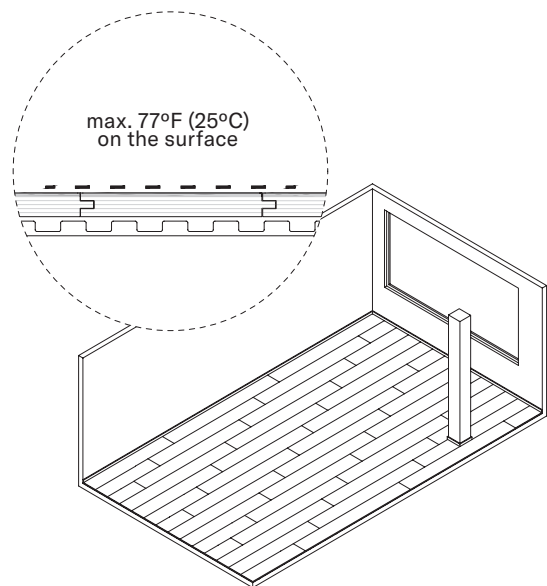


Floor temperature and humidity are the two key factors that must be kept under control to ensure that the bead adhesive system works correctly. Before proceeding to the floor installation, it is imperative that the subfloor meets the necessary conditions described above.

It is essential that the water circuits have no leaks, and the boiler manufacturer and/or installer have fully approved the installation. No responsibility will be accepted by PARKLEX PRODEMA for any failures of our product due to the performance or incorrect operation of the heating system.

The heating system must be switched off two days before the installation of NATURFLOOR-W.

Once NATURFLOOR-W has been installed, it is important to regulate the heating so that the surface temperature of the floor does not exceed 77°F (25°C), always avoiding any sudden temperature variations.



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Application in humid environments

The bead adhesive system in humid environments can be installed with planks that are 188 mm (7 ½”), 290 mm (11 ½”) and 590 mm (23 ¼”) wide.

Specific materials:

- Waterproof sealer

For installations of NATURFLOOR-W boards in high humidity environments (bathroom, kitchen, locker room, spa,...) it is important to follow the installation system described in this document.

After having completed the indicated system, this application requires to seal perimeter joints.

For the sealing of perimeter joints on walls and other fixed points (shower tray, bath, columns, door frames...) it is necessary to use a waterproof sealer (silicone or similar) that allows for the dimensional variations of the material and prevent the entry of liquids through the joints.

Do not use too much water or leave puddles of water on the floor.

Application with multiple widths

The bead adhesive system with different plank widths can only be installed with planks that are 188mm (7 ½”) and 290mm (11 ½”) wide.

