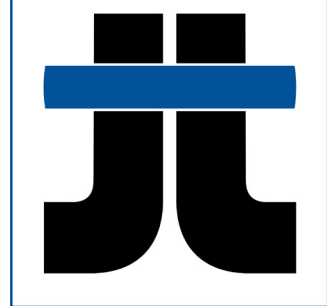




Jouplast®

DIRECTIONS FOR USE

USING PROFILDECK® TO CREATE A COMPOSITE DECK

ALUMINIUM JOIST HEIGHT 55 MM



10 WARRANTY
YEARS

www.jouplast.com



PROFILDECK® RANGE

Aluminium joist :

One side for installing terrace paving and one side for installing wooden and composite decking.

Profildeck® screw :

Self-drilling screw. Secures brackets, adapter directly into the joist. Dimensions : 4.8 x 19 mm.

Decking board screw :

Self-drilling screw. For fixing wooden decking boards to the joist.

Dimensions : 5.5 x 45 mm.

Horizontal junction angle bracket :

For reinforcing 90° joints.

Slotted holes for accurate setting.

Vertical junction angle bracket :

To create step or a second terrace level. Slotted holes for accurate setting.

Adapter :

Secures the Profildeck® joist to the «Essential» and «Elevo» riser head and clips onto all Jouplast® riser heads. (Except paving riser HD 8/20). Use the adapter to link to 2 joists together with the 4 fixing points.

Raises the height of the riser by 5 mm.

Anti-condensation tape :

Prevents increased Profildeck® profile and terrace moisture content. To be positioned on the support rails of the decking side joist.

Horizontal junction angle bracket for edge finishing :

Allow the decking edge finishing.

Pre-drilled for easy screwing.



TOOLS

MINIMAL TOOLS REQUIRED :

- › A tape measure.
- › A level.
- › A screwdriver.
- › A mitre saw or chop saw with a multicut or similar blade. Alternatively, an angle grinder with an aluminium or all-purpose disc (minimum diameter 125 mm) or a hacksaw.
- › A metal file for deburring cut ends.
- › Chalk or line marking spray

Safety first ! Use protective glasses and safety gloves.



RECOMMENDATIONS

› FOR DECKING INSTALLATION :

DIRECTION OF LAYING

Before you begin, decide in which direction you will lay the boards. From an aesthetic perspective, wooden boards should be positioned parallel to the access wall.

› CHOOSE THE RIGHT DECKING BOARDS :

Board slenderness ratio*

The slenderness coefficient is calculated as the ratio between the width (w) of the joist and its depth (d), i.e. $w \div d$. The higher the slenderness coefficient, the greater the risk of the joist warping*. We therefore recommend a slenderness coefficient of between 4 and 6, depending on the type of timber used.

Board quality

Any idiosyncrasies noted on the boards could have negative consequences. Check for buckled, warped or curled boards, or boards with an irregular pattern in the wood fibre.

Drying the boards

Ensure that the board drying techniques used meet the requirements for the selected species.

AD: Air drying for naturally stable wood (e.g. IPE exotic wood).

KD: Kiln drying for wood requiring a more controlled drying environment.

We also recommend that the moisture content of the timber decking boards should be between 18% and 22% at the time of installation, otherwise there is a risk that the installation will degrade.

THIS MUST BE VERIFIED WITH THE WOOD DISTRIBUTOR**BEFORE STARTING :**

Before starting work, it's important - essential even - to prepare a joint layout plan* clearly showing:

- › the cuts.
- › the spacing between joist centrelines.
- › the quantity of accessories required : brackets, adapters, riser pedestal, etc...
- › the levels.
- › the joist connection joints. We do not recommend the use of joist lengths less than 800 mm. If, when you reach the end of the terrace, the length of joist is less than 800 mm, we recommend cutting the previous length of joist to 800 mm, so that the run to the end of the terrace can be finished with a longer section. The shorter cut section can then be used in the next run of joist.
- › **Edge finishes must be considered and planned before the start of installation.**
- › Ensure full decking board widths to avoid having to rip boards lengthways. We recommend you install only full boards.
- › Check that the clips and screws are suitable for use with aluminium joists.
- › **Edge finishes**

* Joint layout plan: the plan to follow when laying your paving.

* slenderness ratio: Ratio between the thickness and width of the board.

1 PREPARING THE TERRACE INSTALLATION AREA

1.1. MARK OUT THE TERRACE INSTALLATION AREA

- › Mark out the location of the future terrace on the ground.

Prepare the ground in one of two ways:

Pro tip :

- › Make sure the area is clean and the ground is stable.

On uneven ground :

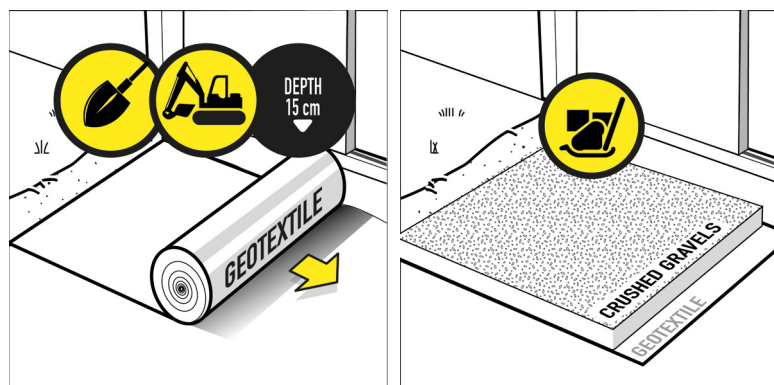
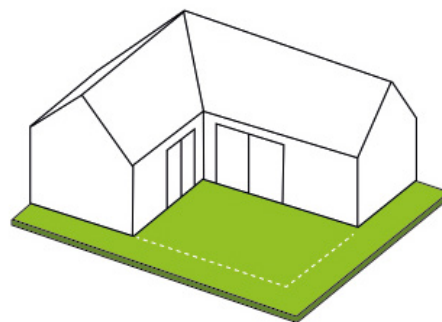
- › Remove about 15 cm of topsoil.
- › Lay a geotextile membrane.
- › Lay a base layer of 0/31.5 grade aggregate..
- › Compact with a vibrating plate compactor (wacker).

N.B.:

- › Depending on the nature of the soil, a draining foundation layer can be laid upstream by depositing a layer of 30/60 or 40/80 crushed stone.

- › If the resulting surface is still uneven, we recommend laying a bed of quarry sand or 0/4 crushed sand. This will make it easier to install low riser pedestals.

- › We recommend using the vibrating plate compactor between each layer.

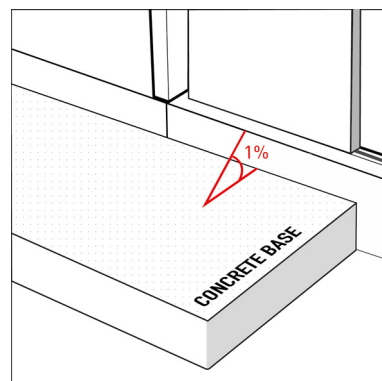


On a concrete support :

- › Remove any debris, stones, etc. that could make it more difficult to position and stabilise the riser pedestals.
- › Check that the levels are correct according to the layout plan and that there is at least 8.5 cm of clear space below the decking at the lowest point.

N.B.:

- › Joist + adapter + the anti-condensation tape = 6.1 cm
To which the height of the riser pedestal (min. 20 mm) should be added.



Minimum slope percentage 1%.

1.2. MARK OUT THE POSITION OF THE JOISTS

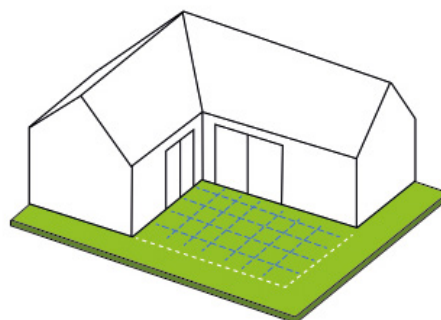
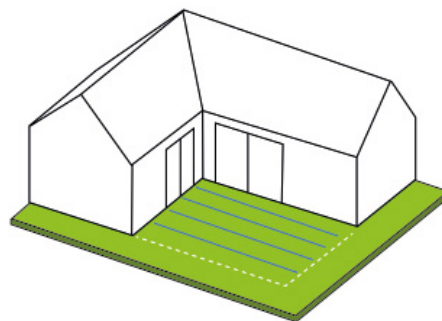
- › Use a chalk line to clearly mark the position of each line of riser pedestals at right angles to the recommended joist centreline spacing*.

This will depend on the thickness and type of timber chosen (50 cm on average).

1.3. MARK OUT THE RISER PEDESTAL POSITIONS ON THE GROUND

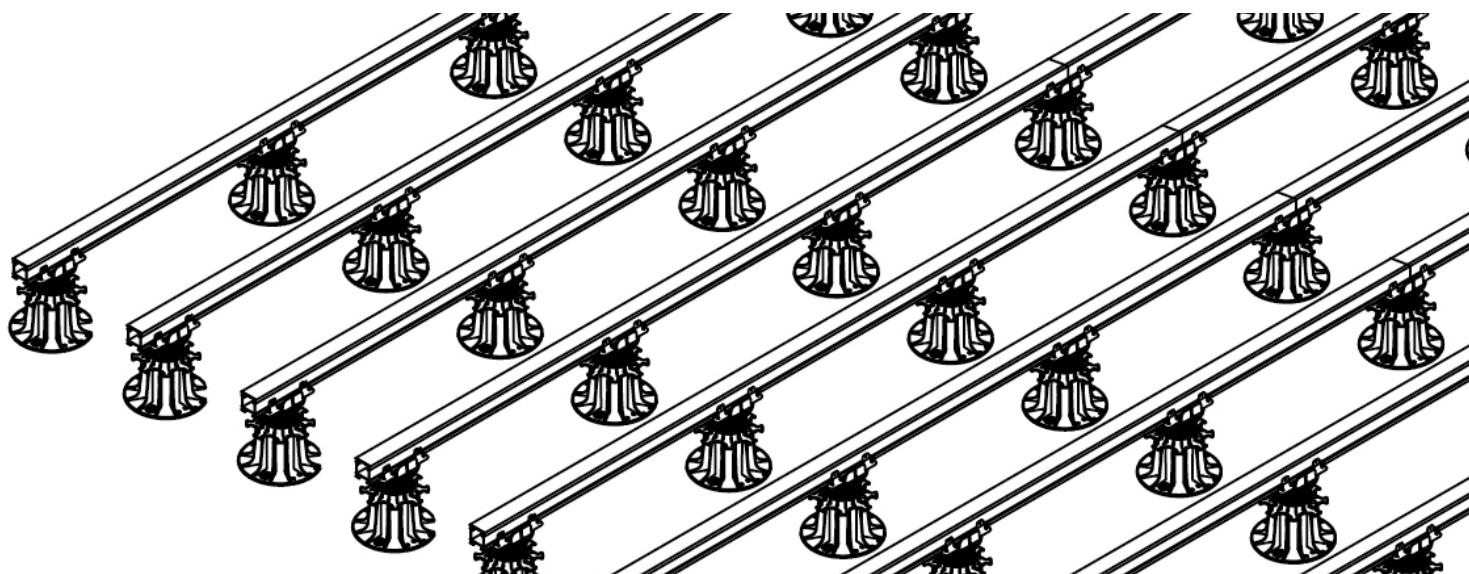
- › Use a chalk line to clearly mark the position of each line of riser pedestals at right angles to the recommended joist centreline spacing.

- › The recommended spacing distance for riser pedestals is 80 cm.
For terraces with public access, the recommended distance varies from 50 cm to 65 cm.



* Spacing between joist centrelines : the distance between the centrelines of two joists.

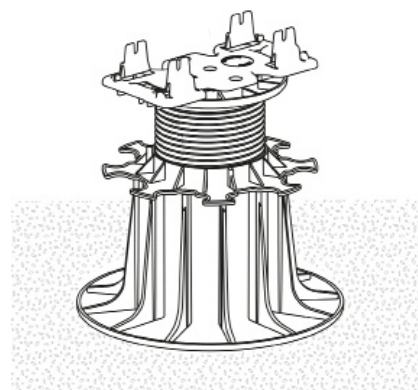
ASSEMBLE THE STRUCTURE



2.1. POSITION THE JOISTS AND RISER PEDESTALS

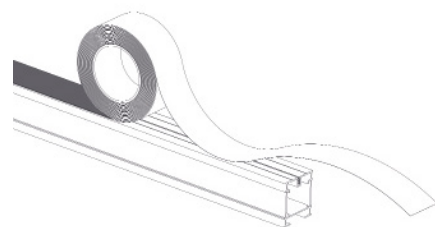
- › Choose your starting point from your layout plan.
- › Place the first joist in the location shown on the plan.
- › Clip the adapters onto the riser pedestals.
- › Clip the joist to the riser pedestal at each end by pushing the joist until it clicks into place - then set the level using the nut.
- › Then clip the joist into the intermediate riser pedestals and adjust the height to your desired level.
- › Maintain the centreline spacing between riser pedestals as recommended in § 1.3 .
- › Set the levels and position string lines, stakes or other markers using the first joist installed as your reference, and repeat the operation for all other joists.

N.B.: remember to take account of features like inspection covers, junction boxes, skimmer inlets, door thresholds, etc.



2.2. APPLY THE SELF-ADHESIVE ANTI-CONDENSATION TAPE

- › As you progress, and ensuring that the joist is clean and dry, apply the self-adhesive anti-condensation tape to the face on which the timber will be laid.

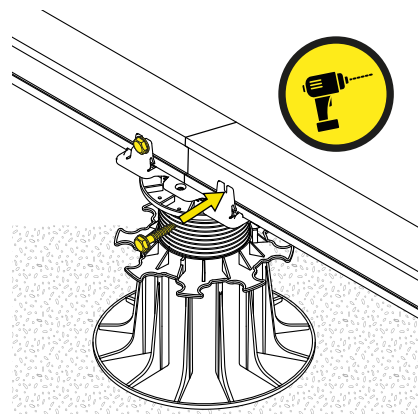


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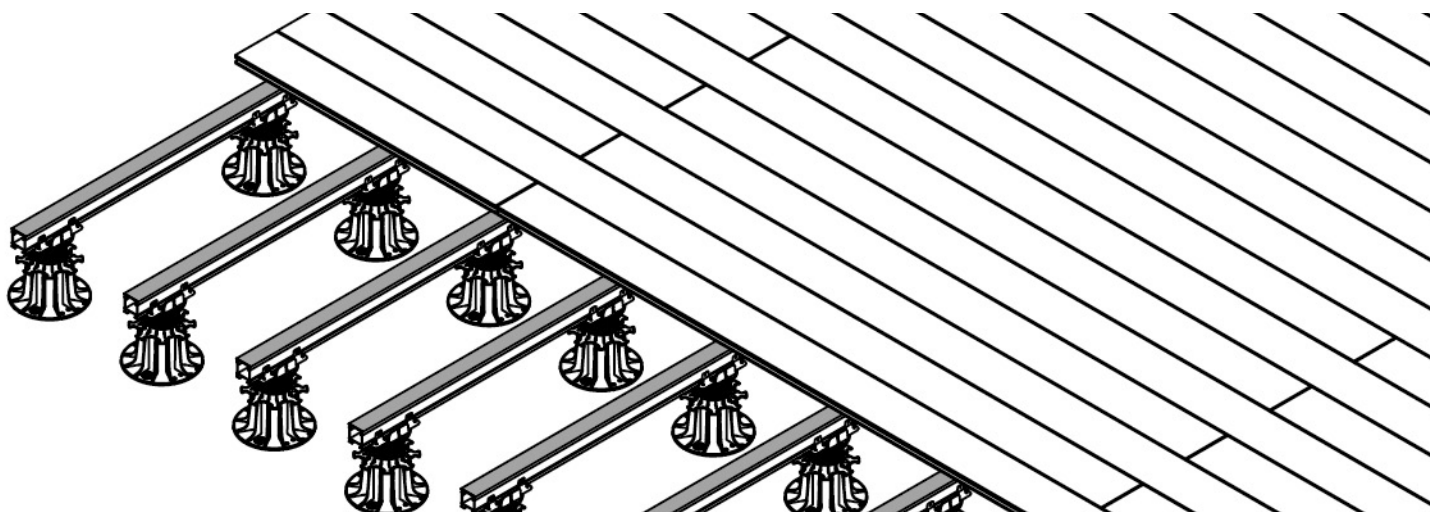
ASSEMBLE THE STRUCTURE**2.3. JOINING JOISTS**

- › Joist lengths greater than 3 metres should be connected using the adapters.
- › Position a riser pedestal fitted with an adapter beneath each joint.
- › Screw the adapter to the joists at all 4 fixing points using self-tapping Profildeck® screws. We recommend leaving a gap of 2 mm between joists to allow for expansion.
- › Repeat for each joist joint.

N.B.: the torque rating for our structural screws is 2.5 Nm $\pm$ 0.5. As a guide, a torque rating of 2.5 Nm normally corresponds to position 8 on the adjuster of a 20-position 18-volt drill/driver.*



3

LAY THE DECKING BOARDS

- › Secure the composite decking boards using the supplied clips.

Note : Ensure that the clips and screws are compatible with aluminium joists.

4

DECKING EDGE FINISHING

- › For the edge finishing of the terrace, use the finishing solutions recommended by the manufacturer of the composite decking boards. Contact your dealer for information on compatible and available products.