Jouplast®

DIRECTIONS FOR USE

USING PROFILDECK® TO CREATE A COMPOSITE DECK

ALUMINIUM JOIST HEIGHT 27 MM

TMP CONVERT

10 WARRANTY YEARS

www.jouplast.com

100% recycled

MADE IN FRANCE · FABRIQUÉ EN FRANCE ·

PROFILDECK® RANGE

Aluminium joist - Height 27 mm :

One side for installing terrace paving and one side for installing wooden and composite decking. **To be used with paving and decking riser pedestals with the exception of the 8/20 mm paving riser pedestal.**

Profildeck® screw :

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

Decking board screw :

Self-drilling screw. For fixing wooden decking boards to the aluminium joist.
Dimensions : 5.5 x 45 mm.

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 reinforcing 90° joints.

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.

BEFORE STARTING :

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

› **the cuts.**
› **the spacing between profile centrelines.**
› the quantity of accessories required : adapters, riser pedestal, etc...
› the levels.
› the joists connection joints. We do not recommend the use of joist lengths less than 500 mm. If, when you reach the end of the terrace, the length of joist is less than 500 mm, we recommend cutting the previous length of joist to 500 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.
› 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.*

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.

BEFORE STARTING :

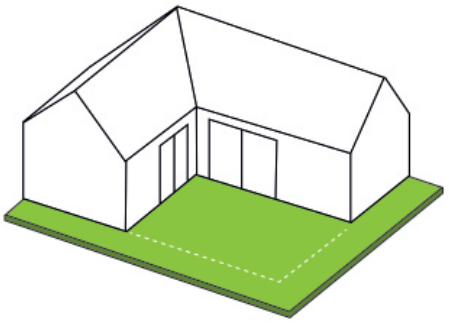
Before starting work, it's important - essential even - to prepare a joint layout plan* clearly showing:

› **the cuts.**
› **the spacing between profile centrelines.**
› the quantity of accessories required : adapters, riser pedestal, etc...
› the levels.
› the joists connection joints. We do not recommend the use of joist lengths less than 500 mm. If, when you reach the end of the terrace, the length of joist is less than 500 mm, we recommend cutting the previous length of joist to 500 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.
› Check that the clips and screws are suitable for use with aluminium joists.
› **Edge finishes**

* ***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



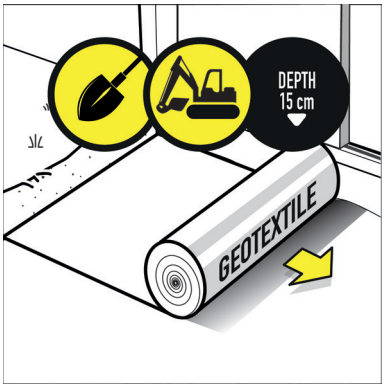
› Mark out the location of the future terrace on the ground.

Prepare the ground in one of two ways:

Pro tip :
› Make sure the area is clean and the ground is stable.

On uneven ground :

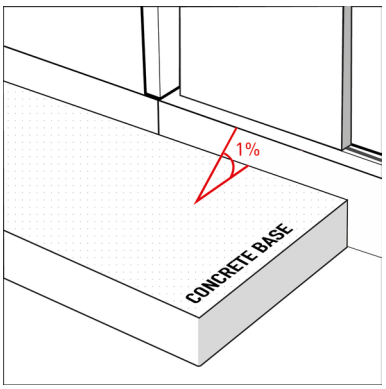
› Remove about 15 cm of topsoil.
› Lay a geotextile membrane.
› Lay a base layer of 0/31.5 grade aggregate.
› Compact with a vibrating plate compactor (wacker).



Note :
› 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 made it easier to install low riser pedestals.
› We recommend using the vibrating plate compactor between each layer.

On a concrete support :

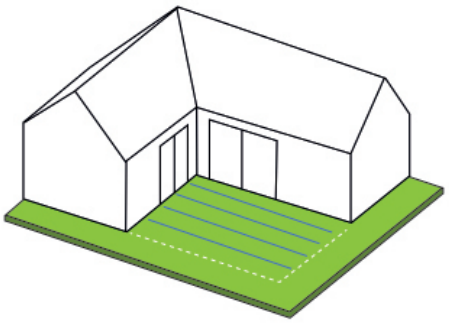
› Remove any debris, stones, etc. that could make it more difficult to position and stabilise the riser pedestals.
› Check that the levels are correct according to the layout plan and that there is at least 5.5 cm of clear space below the decking at the lowest point.



Minimum slope percentage 1%.

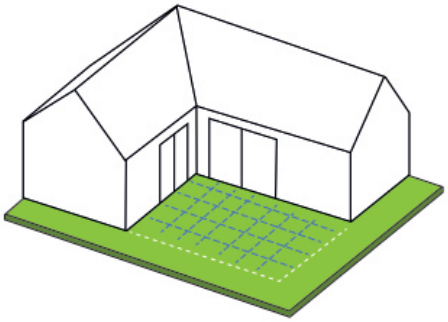
Note :
› Aluminium joist + adapter + the anti-condensation tape = 3.3 cm
To which the height of the riser pedestal (min. 20 mm) should be added.

1.2. MARK OUT THE POSITION OF THE JOISTS



› Use a chalk line to clearly mark the spacing between joist centrelines * shown on the layout plan.
› The spacing between joist centrelines is dictated by the size of the paving tile and/or its manufacturer's recommendations.

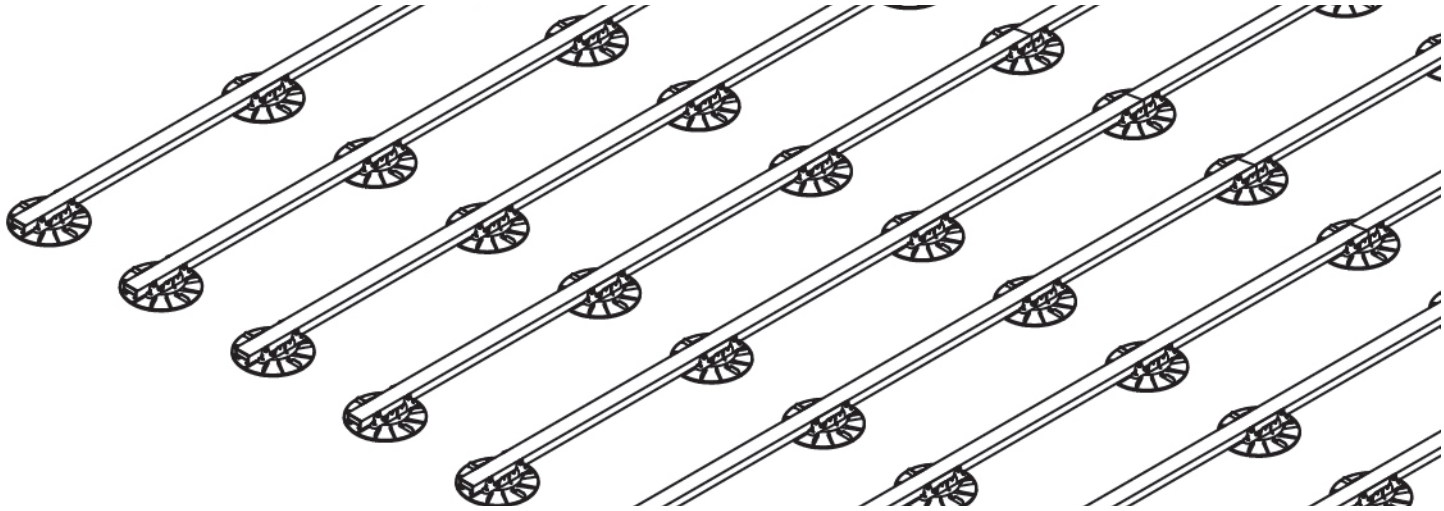
1.3. MARK OUT THE RISER PEDESTAL POSITIONS ON THE GROUND



› 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 48 cm. (i.e 6 riser per joist, including the ends).

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

2 ASSEMBLE THE STRUCTURE



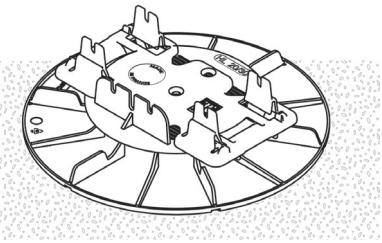
2.1. POSITION THE ALUMINIUM JOISTS AND RISER PEDESTALS

› Choose your starting point from your layout plan.

› Place the first aluminium joist in the location shown on the plan.

› Clip the adapters onto the riser pedestals.

› Clip the aluminium joist to the riser pedestal at each end by pushing the aluminium joist until it clicks into place - then set the level using the nut.



› Then clip the aluminium joist into the intermediate riser pedestals and adjust the height to your desired level.

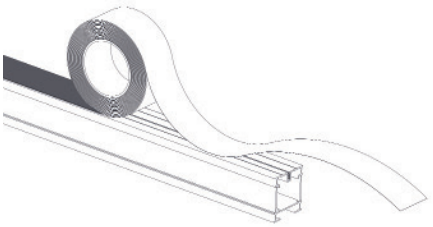
› Maintain the centreline spacing between riser pedestals as recommended in § 1.3.

› 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.

Note : 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

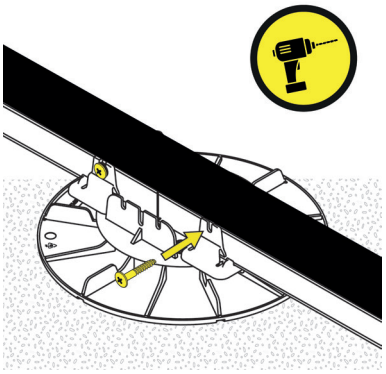
› As you progress, and ensuring that the aluminium joist is clean and dry, apply the self-adhesive anti-condensation tape to the face on which the timber will be laid.



** Torque rating: the parameter used to measure the rotational force of a screwdriver.*

2 ASSEMBLE THE STRUCTURE

2.3. JOINING ALUMINIUM JOISTS



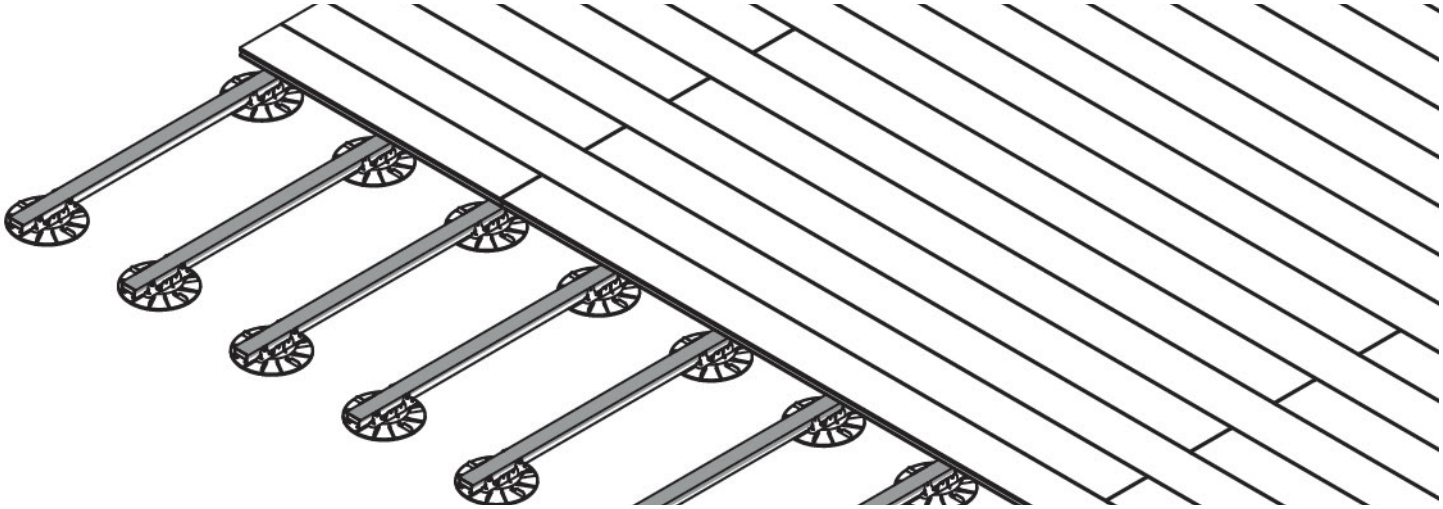
› Position a riser pedestal fitted with an adapter beneath each joint.

› 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.

Note : the torque rating for our structural screws is 2.5 Nm ±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.