DIRECTIONS FOR USE

BUILDING A WOODEN OR COMPOSITE DECK WITH PROFILDECK®

Jouplast®

MADE IN FRANCE · FABRIQUÉ EN FRANCE ·

www.jouplast.com

Decking side

Suggested use

Suggested use

Suggested use

› Easy and quick installation.
› Stability overtime.
› Lighter than a wooden structure.

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TMP CONVERT

PROFILDECK® - SELF-SUPPORTING TERRACE STRUCTURE

PROFILDECK® RANGE

Aluminium profile :
One side for installing terrace paving and one side for installing wooden and composite decking. Length 3 m.

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

Decking board screw :
Self-drilling screw. For fixing wooden decking boards to the profile.
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® profile 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 profiles 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 profile.

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.

PROFILDECK® - SELF-SUPPORTING TERRACE STRUCTURE

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 : brackets, adapters, riser pedestal, etc...
› the levels.
› the profiles connection joints. We do not recommend the use of profile lengths less than 800 mm. If, when you reach the end of the terrace, the length of profile is less than 800 mm, we recommend cutting the previous length of profile 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 profile.
› Edge finishes must be considered and planned before the start of installation.

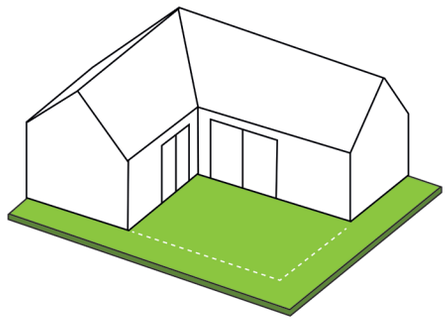
** Joint layout plan: the plan to follow when laying your paving.*

PROFILDECK® - SELF-SUPPORTING TERRACE STRUCTURE

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.

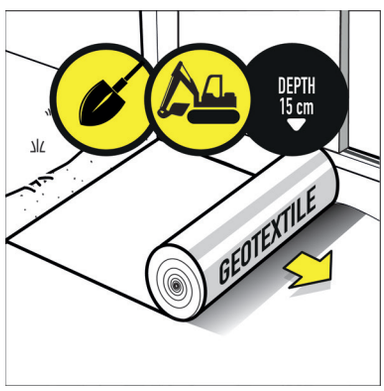


Prepare the ground in one of two ways:

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

On uneven ground :

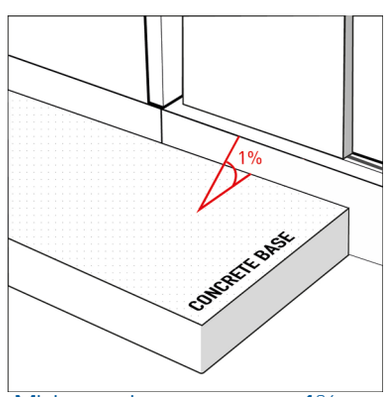
› Remove about 15 cm of topsoil.
› Lay a geotextile membrane.
› Lay a base layer of 0/31.5 grade aggregate..
› Compact with a vibrating plate compactor (wacker).



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 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 8.5 cm of clear space below the decking at the lowest point.

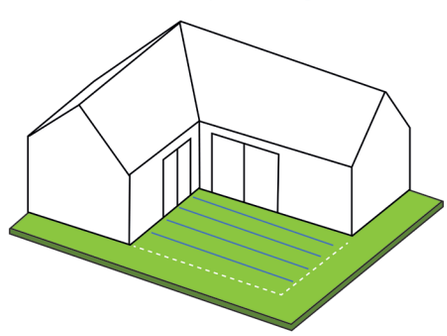


Minimum slope percentage 1%.

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

1.2. MARK OUT THE POSITION OF THE PROFILES

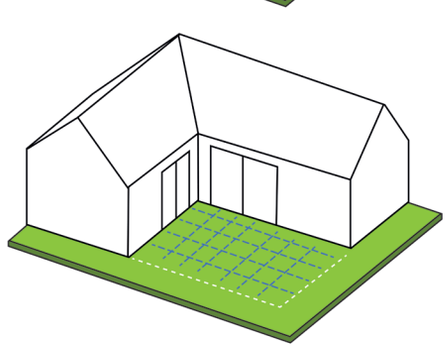
› Use a chalk line to clearly mark the position of each line of riser pedestals at right angles to the recommended profile centreline spacing*.
This will depend on the thickness and type of timber chosen (50 cm on average).



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 profile centreline spacing.

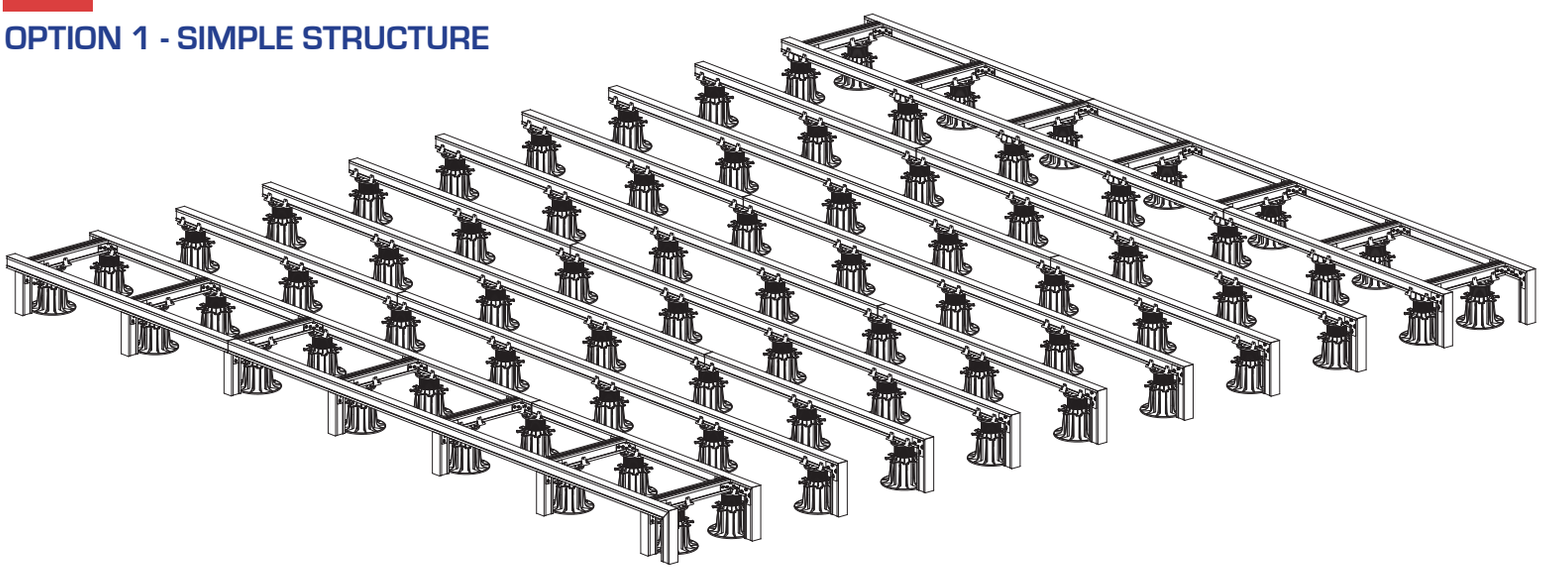
› The recommended spacing distance for riser pedestals is 80 cm.
For terraces with public access, the recommended distance varies from 50 cm to 65 cm.



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

2 ASSEMBLE THE STRUCTURE

OPTION 1 - SIMPLE STRUCTURE



2.1. POSITION THE PROFILES AND RISER PEDESTALS

› Choose your starting point from your layout plan.

› Place the first profile in the location shown on the plan.

› Clip the adapters onto the riser pedestals.

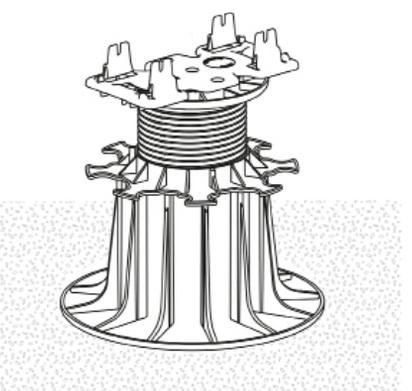
› Clip the profile to the riser pedestal at each end by pushing the profile until it clicks into place - then set the level using the nut.

› Then clip the profile 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 .

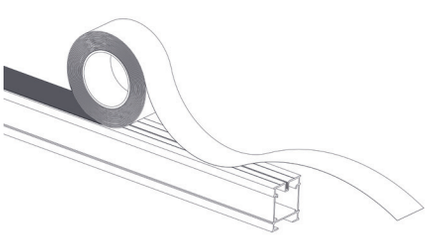
› Set the levels and position string lines, stakes or other markers using the first profile installed as your reference, and repeat the operation for all other profiles.

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 profile is clean and dry, apply the self-adhesive anti-condensation tape to the face on which the timber will be laid.



2.3. JOINING PROFILES

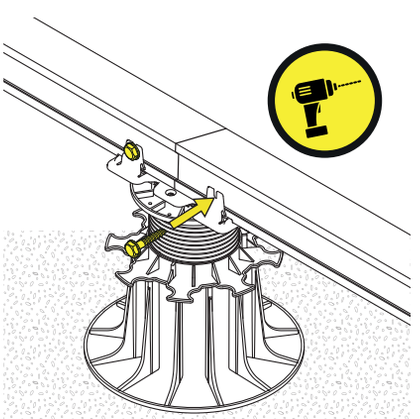
› Profile lengths greater than 3 metres should be connected using the adapters.

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

› Screw the adapter to the profiles at all 4 fixing points using self-tapping Profildeck® screws. We recommend leaving a gap of 2 mm between profiles to allow for expansion.

› Repeat for each profile joint.

N.B.: 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.*

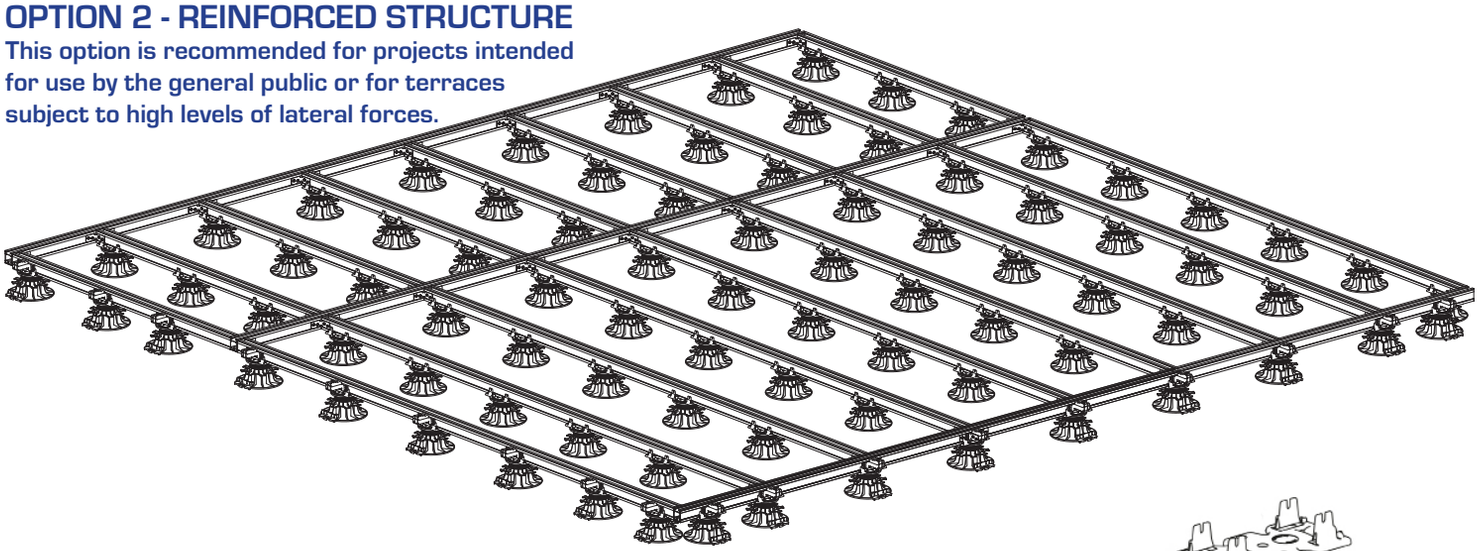


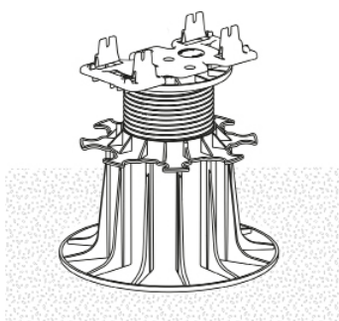
** Torque rating : the parameter used to measure the rotational force of a screwdriver.*

2 ASSEMBLE THE STRUCTURE

OPTION 2 - REINFORCED STRUCTURE

This option is recommended for projects intended for use by the general public or for terraces subject to high levels of lateral forces.

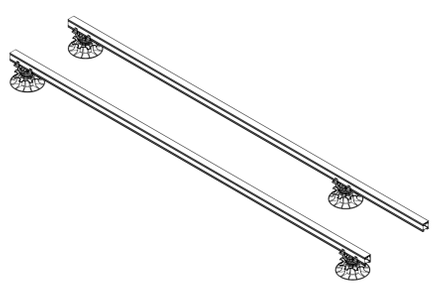




2.1. POSITION THE PROFILES AND RISER PEDESTALS

› Choose your starting point from your layout plan.
› Place the first profile in the location shown on the plan.
› Clip the adapters onto the riser pedestals.
› Clip the profile to the riser pedestal at each end by pushing the profile until it clicks into place - then set the level using the hand adjuster.
› Position the second profile in the same way, respecting the centreline spacing distance shown on the layout plan, and continue until your structure looks like the one in the diagram.

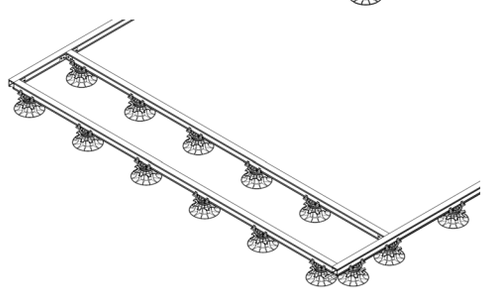
N.B.: remember to take account of features like inspection covers, junction boxes, skimmer inlets, door thresholds, etc...

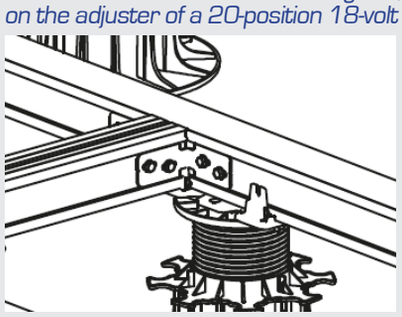


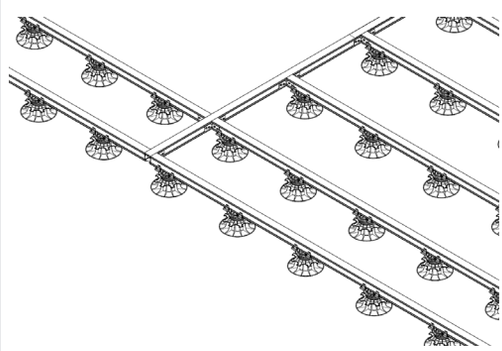
2.2. ATTACH THE REINFORCEMENTS

› To reinforce the structure, we recommend installing 1 reinforcement with the horizontal bracket every 3 metres.
When attaching the reinforcement, we recommend leaving an expansion gap of 2 mm between profiles.

N.B.: the torque rating for our Profildeck® 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.







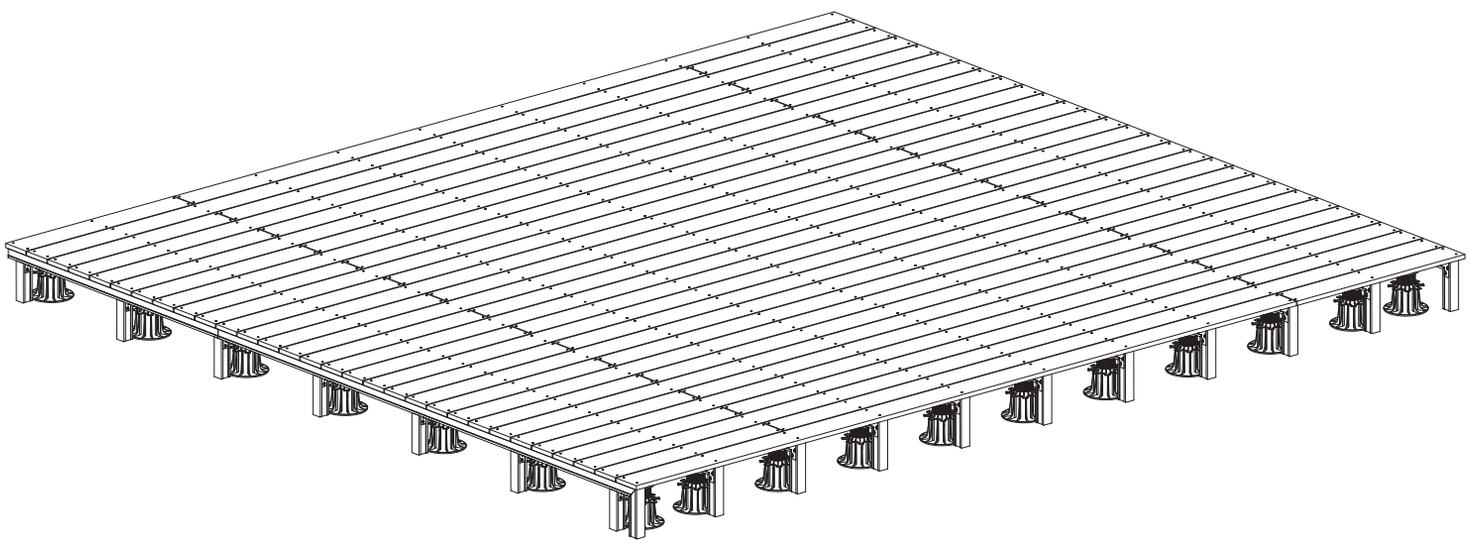
› Then clip the profile into the intermediate riser pedestals and adjust the height to your desired level.
› Repeat the process with the remaining profiles.

2.3. APPLY THE SELF-ADHESIVE ANTI-CONDENSATION TAPE

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

3 LAY THE DECKING BOARDS

OPTION 1 - SCREW FIXING OF DECKING BOARDS



3.1. USING PROFILDECK® SCREWS TO FIX TIMBER DECKING BOARDS

› Lay the timber decking* boards leaving a regular and consistent space between boards (using spacers).

› Screw through each board using the special Profildeck® screws.

Pro tip :

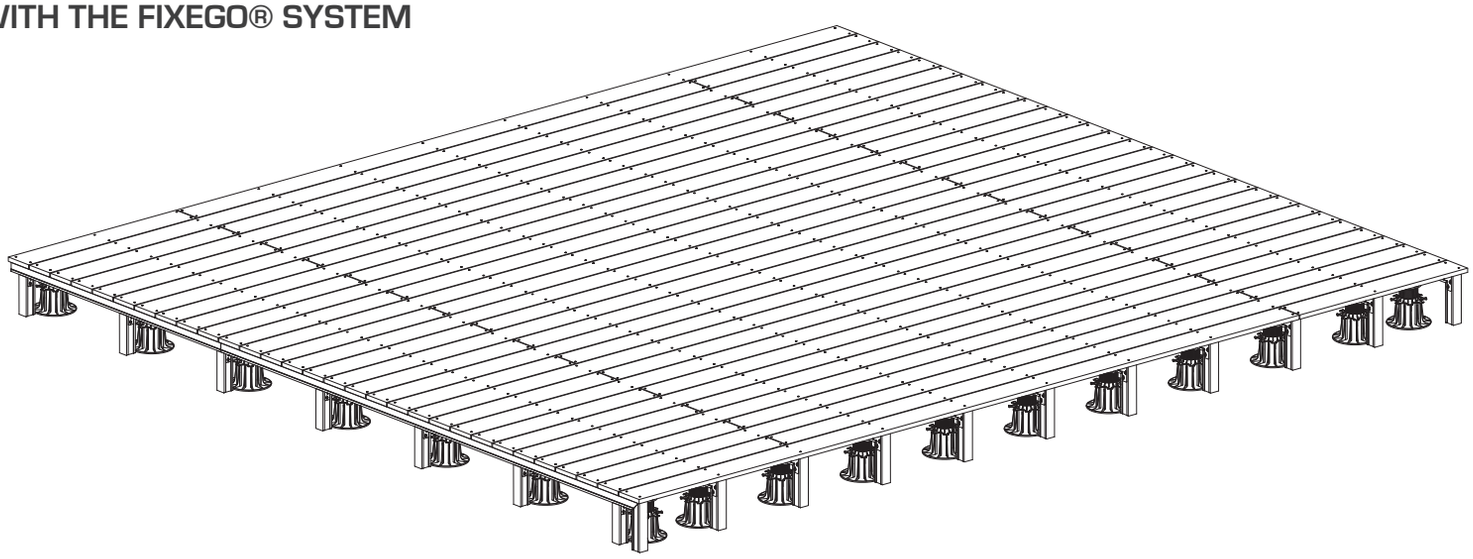
The torque rating for these fixing screws is 7 Nm. As a guide, set the adjuster of a 20-position 18-volt drill/driver to position 18.

When laying composite decking boards, use the fixings recommended by the manufacturer, checking that the screws concerned are suitable for use with aluminium profiles. Screws must be threaded for their full length. Minimum screw length: 15 mm.

** Timber decking: exterior structure covered with boards laid on joists fixed to stable base structures (riser pedestals, packers, beams, etc.).*

3 LAY THE DECKING BOARDS

OPTION 2 - SECRET SCREW FIXING OF DECKING BOARDS WITH THE FIXEGO® SYSTEM



3.2. USING THE FIXEGO® FIXING SYSTEM

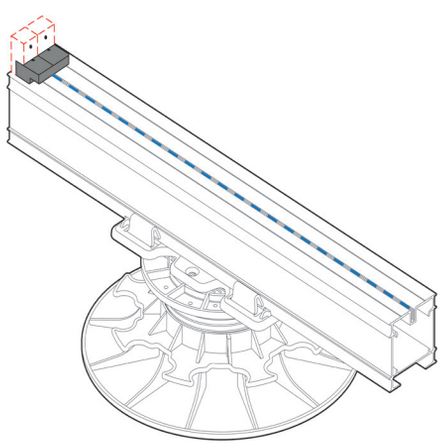
To lay decking boards with no visible fixings, use the FIXEGO® system (see installation instructions):

› Attach a cleat at the end of each profile. N.B.: the cleat must be centred on the longitudinal axis of the profile, and 5 mm from the end of the profile (a vertical cleat can be used as a template for this distance).

› Pre-drill with a 3 mm diameter metal bit.

› Screw in the cleat (using screw 4 x 25 mm screws).

N.B.: cleats are used only to start and finish the deck. Follow the FIXEGO® installation instructions and recommendations.



Pro tip:

When securing cleats to profiles, set the adjuster of a 20-position 18-volt drill/driver to position 20.

Where decking boards are butt-jointed end-to-end, we recommend installing twin joists: one profile to support the end of the first board and a second, parallel to the first, to support the end of the next board (see diagram).

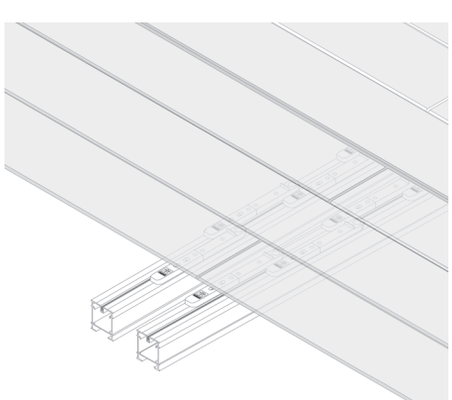
We also recommend offsetting the riser pedestals beneath the profiles.

› 6 x 30 mm FIXEGO® system screws are included in the kit.

› Pre-drill with a 4 mm diameter metal bit.

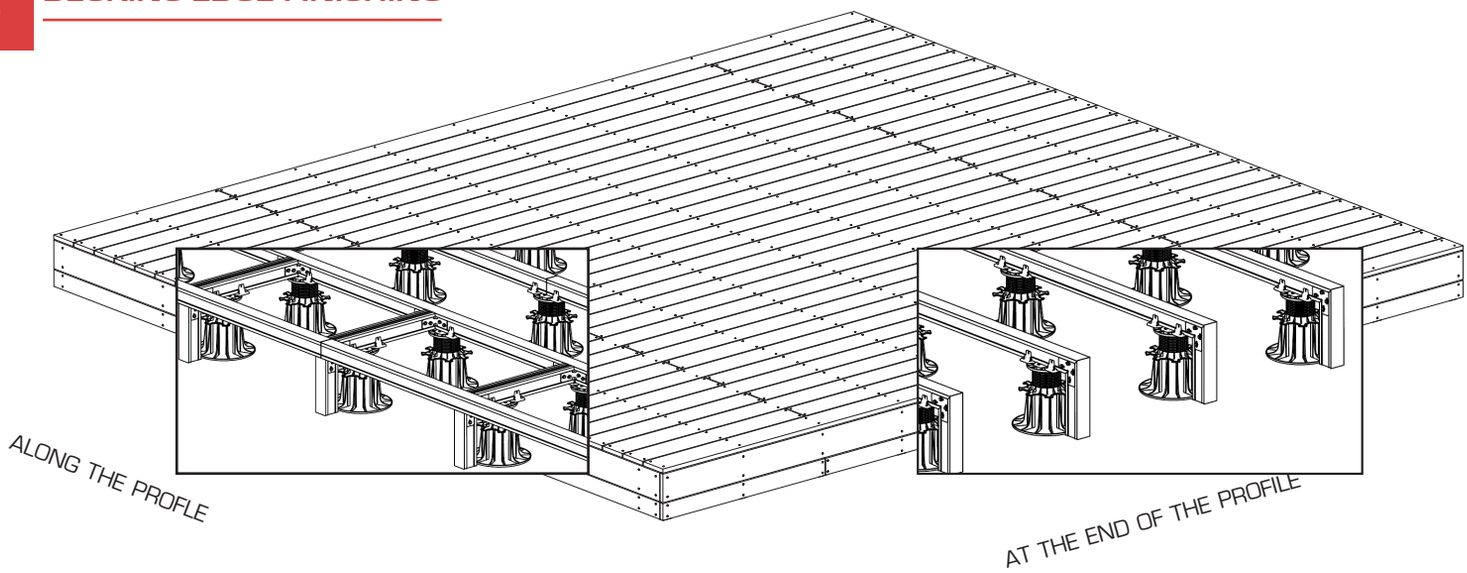
Pro tip :

For driving FIXEGO® system screws, set the adjuster of a 20-position 18-volt drill/driver to position 15.

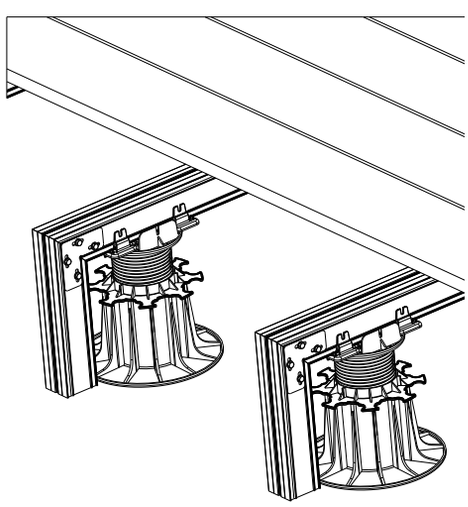


Twin joists

4 DECKING EDGE FINISHING



4.1. FINISHING PROFILE ENDS



› Cut the horizontal profile at 45°, from top to bottom.

› Cut a piece of profile to the measured height at 45° (leaving 5 mm for rainwater drainage).

› Use 2 vertical brackets to join the 2 profiles (timber fixing side facing outwards).

› Use decking screws to attach the decking boards used to provide the vertical edge trim.

Pro tip :

Where the height below the decking is less than 300 mm, it is not necessary to use an lateral riser support.

Where the height below the decking is more than 300 mm, we recommend the use of an lateral riser support (attached to the face of the riser pedestal).

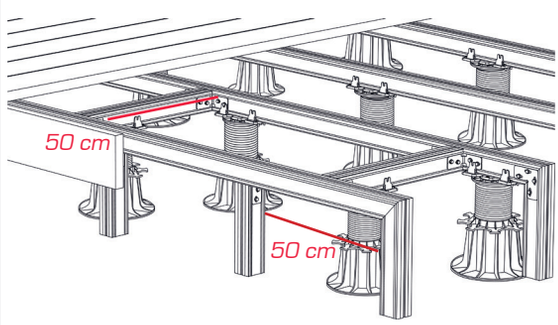
4.2 FINISHING PROFILE SIDES

› Use horizontal brackets to attach braces* (approx. 50 cm long) between the edge profile and the adjacent internal profile.

› Step the riser pedestals supporting the edge profile slightly back to ensure that they are not visible after the edges have been finished.

› Use horizontal brackets to vertically fix measured lengths of profile (leaving 5 mm for rainwater drainage) with the timber fixing side facing outwards).

› Screw the boards in place using decking screws (N.B.: the vertical profiles must be spaced at 50 cm).



Pro tip :

Prepare and fix the short profile sections to the main profile structure in advance, because it will be difficult to secure the brackets in such a limited space.

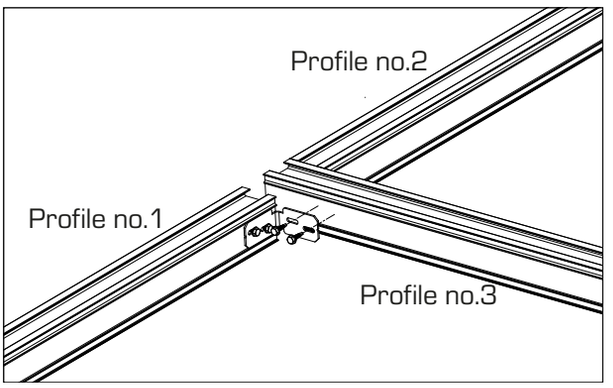
** Brace : A piece of profile placed between the joists to strengthen the frame.*

5 SPECIAL APPLICATIONS

BUTT JOINTING OF PROFILES

If it is not possible to join 2 profiles using an adapter, the joint can be made using horizontal brackets. e.g.: against a wall (see diagram).

We recommend leaving a gap of 2 mm between profiles to allow for expansion.



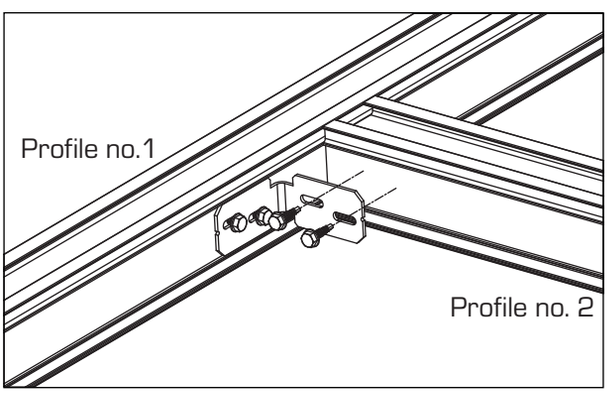
Special application : Butt jointing of profiles with horizontal brackets

USING HORIZONTAL BRACKETS

- To connect 2 profiles at 90° to each other.
- To attach braces* (for reinforced structures).
- To create L-shaped terraces.
- To create U-shaped terraces.

- Locate the horizontal bracket between the outer rails of profile no. 1.
- Use 2 Profildeck® screws to attach the horizontal bracket to the profile through the slotted holes, but do not tighten at this stage.
- Locate profile no. 2 against the horizontal bracket and secure using 2 Profildeck® screws.
- Adjust the position of the profiles and tighten all 4 structural screws.

We recommend leaving a gap of 2 mm between profiles to allow for expansion.



Horizontal bracket use

Pro tips :

Tighten Profildeck® screws to a torque rating of 2.5 Nm. As a guide, set the adjuster of a 20-position 18-volt drill/driver to position 8.

BUILDING A WOODEN OR COMPOSITE DECK WITH PROFILDECK®

Jouplast®

MADE IN FRANCE · FABRIQUÉ EN FRANCE

Since 1986, JOUPLAST® have been the leading manufacturer of paving and decking riser pedestals. We continue to grow and develop innovative solutions for both the domestic and commercial markets.

The success of JOUPLAST® is down to a combination of great technical expertise, creative design and a desire to manufacture products which meets the needs of the markets.

JOUPLAST® is a brand of :

TMP CONVERT

OUR GOAL : TO PROVIDE A FULL RANGE OF INNOVATIVE PRODUCTS THAT MAKE THE JOB EASIER.

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