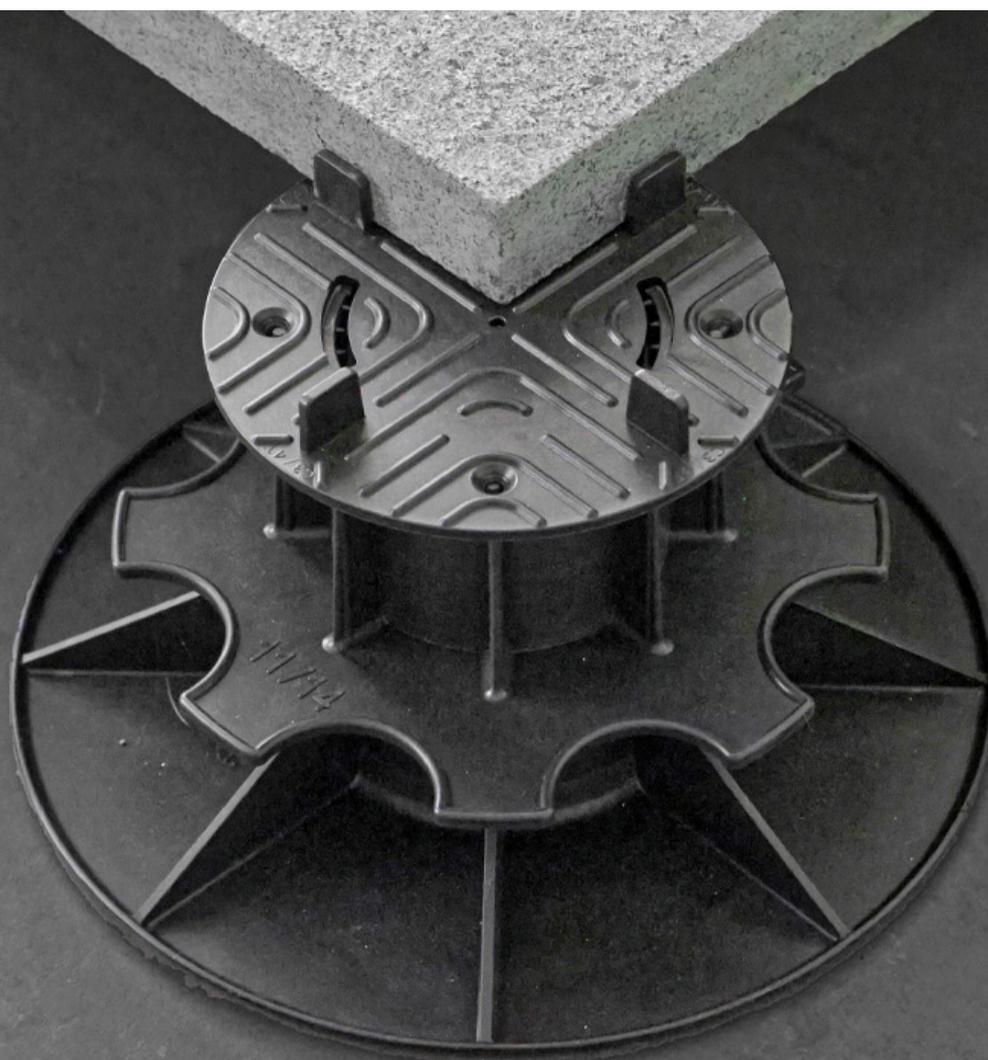


Pavetuf

Adjustable Risers



Adjustable Risers

Guide to the Use & Installation

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EASY TO INSTALL

Our Pavetuf Adjustable Risers are quick and easy to install and can be moved over and over again, so, if you move you can take your products with you.



FREE CHOICE OF MATERIALS

The use of different materials is possible thanks to the compatible design with interchangeable surfaces. Use for for wood, porcelain paving, concrete paving or composite decking boards or a combination of any of these.



NO TREAD NOISES

Designed with the right plastics and rubber materials to limit the noise and also to keep the products firmly in place.



FAST DRAINAGE

The joints created by the risers, allows water to seep through and then be diverted.



BIG LOAD CAPACITY

Our Adjustable Riser Supports can take 800 to 1500 kilograms. That is more than necessary, but it is our way of offering safety and security.



HANDY LEVELLING

Our Adjustable Riser Supports not only adjust to a certain height, they also adapt to the ground when used with the slope correction accessory.



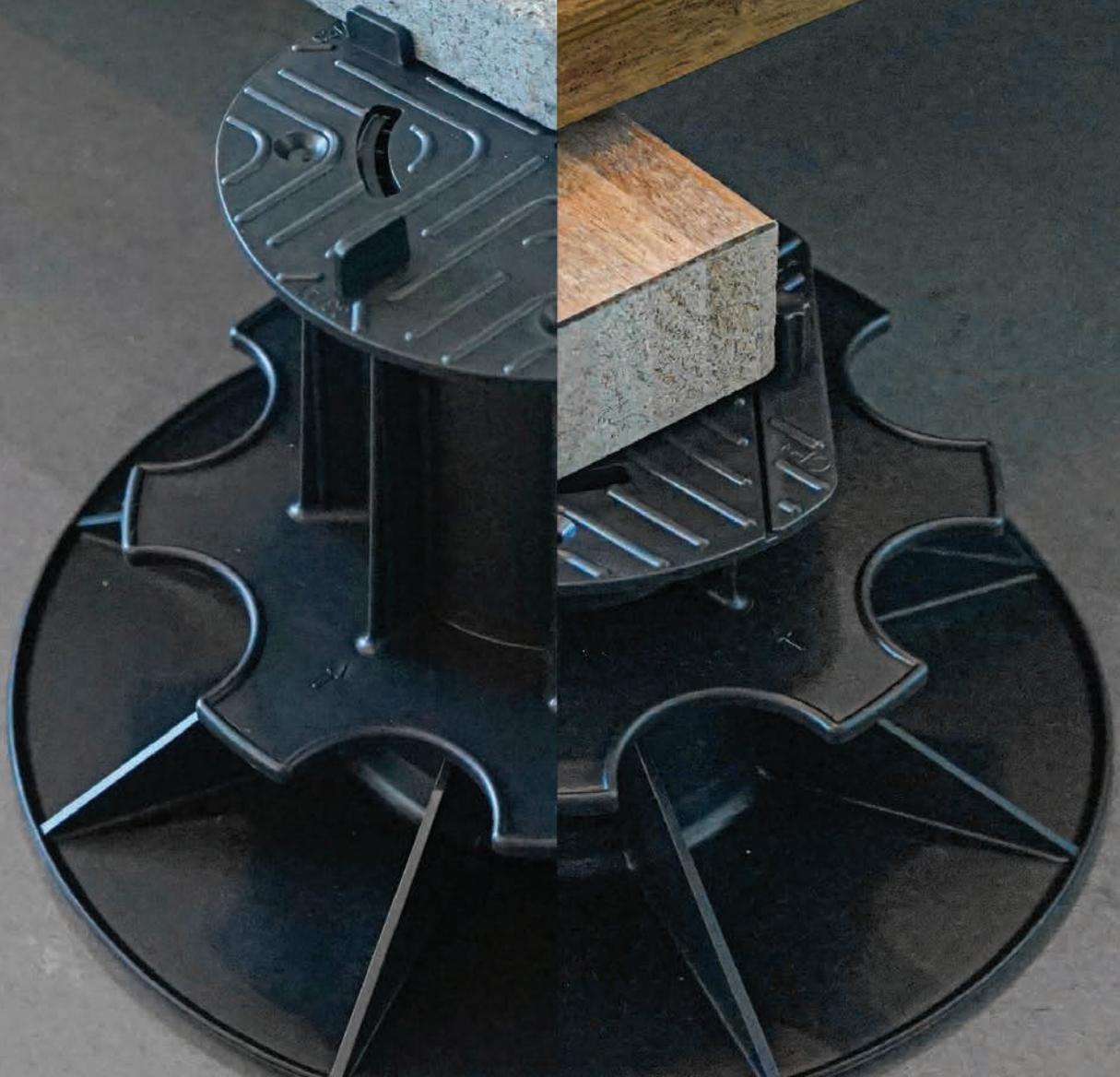
RECYCLED

Our Adjustable Risers are made from 100% recycled polypropylene and are 100% recyclable.

Welcome

Pavetuf Adjustable Risers are designed to enable the simple installation of paving or decking for patios, flat roofs, terraces and balconies. The Pavetuf Adjustable Riser System enables the;

- Conversion of unused rooftops and decks into attractive, hard-wearing areas, increasing the footprint of properties.
- Levelling of patios, flush to buildings, without compromising damp proof courses, to create sleek inside to outside areas.



Pavetuf

Adjustable Risers

- Benefits

Use with a mix of landscaping materials - The Risers are available in a wide range of telescopically adjustable heights with interchangeable Top Plates and accessory pieces to allow for various landscaping materials i.e. porcelain, concrete and also composite and wood decking.

Can mix paving and decking elements within the same area - This is possible when using the relevant Top Plate, due to its ability to adjust the level of the base to give the correct finishing height.

Use on balconies, terraces or flat roofs - Paving and decks can be applied to these areas with the use of our innovative Top Plate, C3/4T BT, due to its self-adhesive layer that gives extra fixing support that is crucial for these areas to help reduce the risk of wind lift.

Extremely robust - The Risers are very robust with a crush resistance of 1100-1150kg per Riser and a load bearing weight of up to 2400kg per square meter which is equal to 600kg per Riser.

Negates the need for jointing to paved area - The system allows water to drain freely underneath.

Hides services but retains easy access for maintenance - The elevated system promotes good airflow and allows pipes, cables, services and drainage channels to be hidden away out of sight and gives easy access for maintenance.

Ease of install and removal - The system is quick and easy to install and can be moved over and over again, so if you move you can take your products with you.

100% recyclable - Made from 100% recycled polypropylene.

Precision - Standard stock available from 35mm to 110mm giving you millimetre precision for a completely flat upper surface and with an option to extend by using the simple extension piece to build up the pedestals in 30mm increments. By using the stackable slope corrector or the HA5 Self-Levelling attachment, you can allow for incline differences of 2% to 10%. 110mm to 170mm height options are available to order.

Choose Your Height





PV 3.5/5

Base with heights between 35mm and 50mm. This part is placed on the surface.



PV 5/8

Base with heights between 50mm and 80mm. This part is placed on the surface.



PV 8/11

Base with heights between 80mm and 110mm. This part is placed on the surface.



PV 11/14*

Base with heights between 110mm and 140mm. This part is placed on the surface.



PV 14/17*

Base with heights between 140mm and 170mm. This part is placed on the surface.



PV 3.5/5



PV 5/8



PV 8/11



PV 11/14

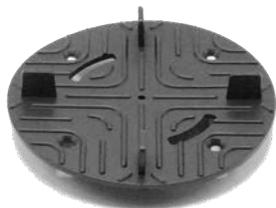


PV 14/17

Choose Your Support Top Plate



All Top Plates fit into any base or side base. Choose the one to suit your application.



C3/4T 3mm joint

Top Plate for porcelain and concrete paving.



CO

Top Plate with a flat surface to use when placing additional plates under porcelain paving, concrete paving where a spacer is not needed.



C3/4T BT 3mm joint

For paving with a self-adhesive layer which gives extra fixing support essential for balconies, terraces or flat roofs to reduce the risk of wind lift.



C-Clip

Top Plate compatible with Pavetuf Aluminium Support System and for joists used for installation of composite and wood decking systems. Width between the lugs is 76mm.



CPV+

Top Plate for wooden joists with a rotating fixation at the side to ensure the joist is centred on the plate.



F30*

Extension piece. Each extension adds 30mm to the Riser Support and fits in any base or side base.



HA5*

Self-Levelling attachment to assist levelling of uneven ground up to 5%.

*Optional

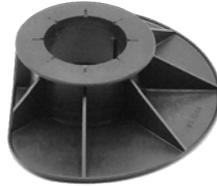
Side Plates & Accessories





AK 3.5/5

Base for side installation with heights between 35mm to 50mm. This part is placed on the surface. To place along edges or against walls.



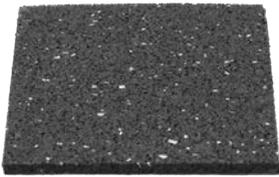
AK 5/8

Base for side installation with heights between 50mm to 80mm. This part is placed on the surface. To place along edges or against walls.



HS2

Slope Corrector to reduce inclination differences from 2% to 10%.



Protection Rubber

A sound and shock absorbing water resistant protection layer. Do not use on PVC surfaces.



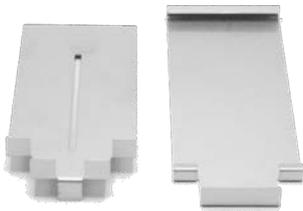
Fitting Piece 2mm

A solid rubber sound and shock absorbing water resistant protection layer for use on Top Plates.



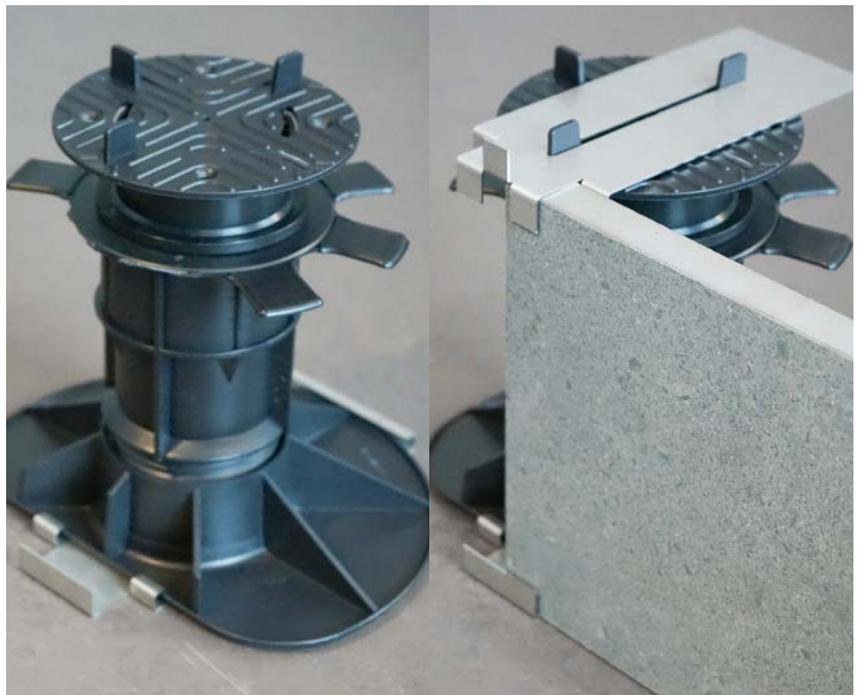
Wall Finishing

A 6mm thick self-adhesive protection rubber piece to apply to side of the paving when laying up to a wall.



Edge Finishing Plate

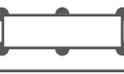
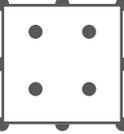
An Edge Finishing Plate to keep side fascia in place.



Paving Installation

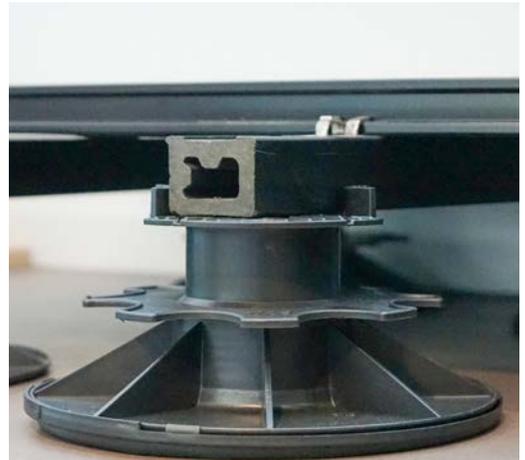
Use the chart below as a recommended guide to calculate how many Pavetuf Adjustable Risers you will need for your installation. Extra support is given by using additional Risers in conjunction with the flat Top Plate CO in the centre of the paving. Pavetuf Adjustable Risers can be laid onto a concrete, tarmac, gravel, grass and a simple sub-base surface. If laying onto a gravel or grass surface ensure the area is suitably stable and will not sink with the weight of the system, use a sub-base like type 1, to stabilise if necessary. Use a garden geotextile weed membrane on areas other than concrete or tarmac to reduce the risk of weeds growing underneath the area.

- Ensure the foundations incorporate a drainage slope to avoid water pooling.
- A drainage channel, gutter or alternative system to take the water away should be included in the foundations.
- The area should be as flat as possible and stable. Whilst minor irregularities can be dealt with, your terrain should otherwise be flat.
- Not all paving types are suitable for installation on adjustable risers, whilst others may require special consideration, such as double glass fibre net backing or supporting tray systems, to make them suitable. You should seek specialist advice on whether your paving is suitable. Talasey will not accept any liability; for the performance of products or their suitability, when used in conjunction with our Pavetuf Adjustable Risers.

Size		Up to 20mm (3/4")	20mm (3/4") - 100mm (4")	From 100mm (4")
600x600mm (Nominal) 24x24" 5 supports per slab		5 supports	5 supports	5 supports Double glass-fibre net or galvanised steel sheet
800x800mm (Nominal) 32x32" 5 supports per slab		5 supports	5 supports Double glass-fibre net or galvanised steel sheet	5 supports Double glass-fibre net or galvanised steel sheet
900x450mm (Nominal) 36x18" 6 supports per slab		6 supports	6 supports Double glass-fibre net or galvanised steel sheet	6 supports Double glass-fibre net or galvanised steel sheet
900x600mm (Nominal) 36x24" 7 supports per slab		7 supports	7 supports Double glass-fibre net or galvanised steel sheet	7 supports Double glass-fibre net or galvanised steel sheet
1200x300mm (Nominal) 48x12" 6 supports per slab		6 supports	6 supports Double glass-fibre net or galvanised steel sheet	6 supports Double glass-fibre net or galvanised steel sheet
1200x400mm (Nominal) 48x16" 6 supports per slab		6 supports	6 supports Double glass-fibre net or galvanised steel sheet	6 supports Double glass-fibre net or galvanised steel sheet
1200x600mm (Nominal) 48x24" 8 supports per slab		8 supports	8 supports Double glass-fibre net or galvanised steel sheet	8 supports Double glass-fibre net or galvanised steel sheet
1200x1200mm (Nominal) 48x48" 12 supports per slab		12 supports	12 supports Double glass-fibre net or galvanised steel sheet	12 supports Double glass-fibre net or galvanised steel sheet

When using Pavetuf Adjustable Risers for paving installed on a raised flooring system it will be subject to uplift from the actions of the wind especially on roof terraces and roof decks. The use of the C3/4T BT Top Plate with its self-adhesive layer will reduce the risk of wind lift. You will need to seek assistance from a qualified professional to check the suitability of the installation system for specific installation site conditions and to check accordance with local building regulations.

- Place the Pavetuf Adjustable Risers at the required spacing for the paving and design being installed, for example if using a 600x600mm paving, place the Risers 600mm apart. Use the guide above for the recommended quantity of Risers required for different sized paving. If using the Large Protection Rubber place these under each Riser Base as you install.
- Place your chosen Top Plate into the top of the Riser Base and if using the Extension Piece place this into the Rise Base and the Top Plate into the Extension Piece.
- If using the Fitting Piece 2mm solid rubber to help with sound and shock absorption place this onto the Top Plate.
- If your area is not completely level there are two options to choose from, the HA5 Self-Levelling attachment or the HS2 Slope Corrector. The HA5 Self-Levelling attachment can be slotted into the top of the base plate and will correct inclination differences of 5%. The HS2 Slope Corrector, which is stackable and clips to the underside of the base plate will correct inclination differences from 2% to 10%. A maximum of 5 number HS2 Slope Correctors can be used, each giving a 2% inclination difference.
- Using the telescopic stem, set the approximate height level you require and place your paving onto the Risers.
- With a spirit level on your paving, adjust the Risers using the telescopic stem to adjust where necessary to obtain the required upper surface level. There is no need to remove the paving, just use the telescopic stem system to make millimetre precision adjustments by twisting up or down.
- If laying up to a wall or edge use the base for side installation AK 3.5/5 or AK 5/8 and use the 6mm Wall Finishing Protector to create the gap between the paving and the wall.
- If your area has an open end and a fascia is required, order in advance, the Edge Finishing Plate which holds the fascia in place which fits on either the AK 3.5/5 or AK 5/8 Side Plates. If the riser base height is any different to the size of the 2 side plates, then the riser base can be cut to make the Edge Finishing Plate fit.



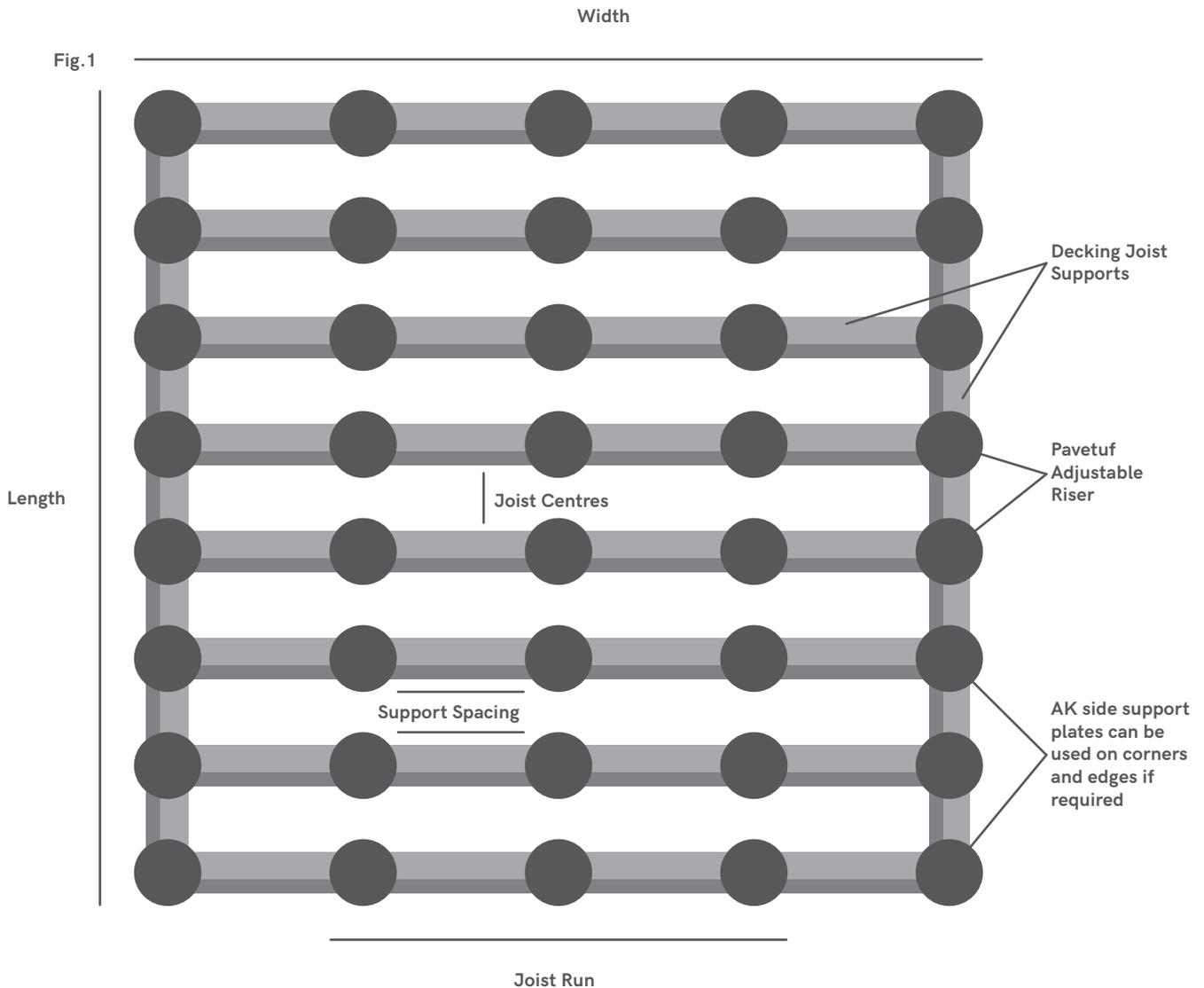
Decking Installation

Pavetuf Adjustable Risers can be used to lay composite and wood decking areas. There is a choice of 2 Top Plates for laying joist supports for decking areas, C-Clip has a width between the lugs of 76mm to place the joist into or CPV is a flat Top Plate with a fixation section on one side to screw the joist to the Riser.

The system ideally needs to be laid onto a solid flat foundation of concrete, a flat roof, balcony or terrace where the decking substructure can be supported with Pavetuf Adjustable Risers. These are simply placed straight onto the ground with the Large Protection Rubber Mat (essential for flat roofs) and the height of each is easily adjusted using the telescopic stem system. If laying onto a gravel or grass surface ensure the area is suitably stable and will not sink with the weight of the system, we'd recommend using a sub-base of compacted MOT type 1 at a depth of at least 15cm, to stabilise. Use a garden geotextile weed membrane on areas other than concrete or tarmac to reduce the risk of weeds growing underneath the area.



Use the recommended guide below to calculate how many Pavetuf Adjustable Risers you will need for your installation.



Calculate the amount of joist runs that require supporting (Fig. 1). The range of decking you use will determine the joist centres required. If you are using Piranha TerraFuzion or Hunter composite decking, ensure widths between joist centres are no greater than 300mm. For other products please refer to the manufacturers joist centre recommendation and calculate accordingly.

The following example will use a decking area that is 3m wide x 6m long based on a 300mm joist centre and 600mm support spacing using 47mm x 125mm treated timber.

- Divide the length of the deck by the support span
- 6m decking length/0.3m support span
- Joist centres = 20 joist runs
- Add 1 to the above total for joist runs required
- **20 + 1 = 21 joist runs with 3m joist length required for deck width**

Calculate how often the joists need to be supported on the width. If using timber, a C16 treated timber is recommended for the subframe. For Piranha Decking we recommend 47mm x 125mm for elevated areas. These should be no more than 600mm apart to ensure the deck is supported and to reduce bounce. Plastic/composite joists can also be used, in this instance, refer to the manufacturer for recommendations on the support spacing span and calculate accordingly.

- Divide the width of the deck by the support spacing span
- 3m decking width/0.60m maximum support spacing span
- Joist support spacing = 5 number spacings
- Add 1 to the above total for the number of Risers per joist required

5 + 1 = 6 Risers per joist run

- Multiply the amount of joist runs by the number of Risers for joist support span spacings per joist

6 Risers per joist x 21 joist runs = 126 total Risers required

Calculation Recommendations

- For multiple decking areas, follow the steps for each length and width above and add all the quantities together.
- Always round up the number of pedestals required.
- We recommended adding 5% extra to the total amount of material for unforeseen circumstances.
- A drawing to scale may help you calculate how many materials you will need.
- Our information is just a guide to help and it is your responsibility to ensure you are supporting your subframe and deck in the correct way for your application.
- If the deck frame is planned to sit onto of a flat roof, it will also be important to have the correct amount of Large Protective Rubber Mats for each support in order not to damage the roof membrane.

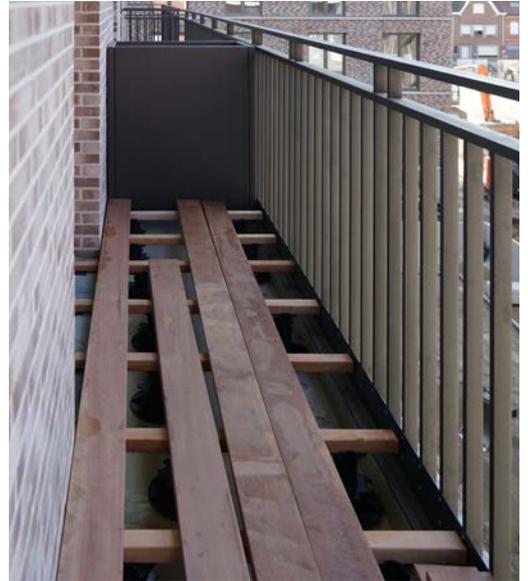
Preparation

- Ensure the foundations incorporate a drainage slope of approximately 5mm per meter to avoid water pooling.
- A drainage channel, gutter or alternative system to take the water away should be included in the foundations.
- The area should be flat and stable in order to avoid any deformation of the decking surface.
- Composite boards must be a minimum of 50mm off the ground. In areas of potential excessive water and debris build up, we recommend a minimum of 90mm off the ground for pressure-treated timber joists to ensure good air ventilation and water passage.

Flat Roof and Terrace Preparation

Pavetuf Adjustable Risers are not suitable for use on balconies or terraces where the upper floor level is more than 18M above external ground level, in line with Building Regulation 7(2).

- A roofing membrane needs to be used, ensure this is 100% watertight and free of debris.
- Ensure the area has sufficient water drainage outlets and falls. The water should not pool on the surface.
- On flat roofs, the Large Protection Rubber Mat should be placed under the Risers to avoid damaging the roofing membrane this will also help with sound and shock absorption.
- Where a waterproof membrane is in place, Risers cannot be bolted to the ground; the weight of the decking should be enough to keep it all in place.
- If laying on a balcony this may already be watertight and constructed with water drainage. If this is not the case, then a roofing membrane needs to also be used.



Laying

- Starting from the edge of the decking area, place the Pavetuf Adjustable Risers on the installation area at the correct intervals as calculated for your decking type, joist centre and joist support span spacing. If using the Large Protection Rubber Mats place these under each Riser Base as you install.
- Place your chosen Top Plate into the top of the Riser Base and if using the Extension Piece place this into the rise base and the Top Plate into the Extension Piece.
- Using the telescopic stem, adjust the Riser height to your required size.
- In corners or along edges use the AK Base for installation if required.
- With a spirit level check your levels and using the telescopic stem system adjust the Riser where necessary to obtain a completely flat upper surface.
- To take account of the slope in the foundations, there are two options to choose from, the HA5 Self-Levelling attachment or the HS2 Slope Corrector. The HA5 Self-Levelling attachment can be slotted into the top of the base plate and will correct inclination differences of 5%. The HS2 Slope Corrector, which is stackable and clips to the underside of the base plate will correct inclination differences from 2% to 10%. A maximum of 5 number HS2 Slope Correctors can be used, each giving a 2% inclination difference.

Laying the Joist

Calculate how often the joists need to be supported on the width. If using timber, a C16 treated timber is recommended for the subframe. For Piranha Decking we recommended 47mm x 125mm for elevated areas. These should be no more than 600mm apart to ensure the deck is supported and to reduce bounce. Plastic/composite joists can also be used, in this instance, refer to the manufacturer for recommendations on the support spacing span and calculate accordingly.

- Starting from the edge of your sub-frame, place the joist bearers on top of the Riser centres.
- Ensure that each bearer/joist is supported on each joist centre/joist support spacing.
- With a spirit level on your joists, using the telescopic stem, adjust the Riser where necessary to obtain a completely flat upper surface. There is no need to remove the joist, just use the telescopic stem to make millimetre precision adjustments by twisting up or down.
- If using the CPV Top Plate, ensure you are happy with the level and location of the joist before fixing to the joist.
- A full joist width and clip must be used under each deck board end, so, you must ensure to have a double joist structure for deck board butt joints.
- Always use screws suitable for outdoor use when constructing the subframe.
- Lay each section fixing as you go until complete.



Packaging	
PV 3.5/5 Base	50 Pieces
PV 5/8 Base	50 Pieces
PV 8/11 Base	50 Pieces
PV 11/14 Base	50 Pieces
PV 14/17 Base	50 Pieces
CO Support Plate	50 Pieces
C3/4T 3mm joint Support Plate	50 Pieces
C3/4T BT 3mm joint Support Plate	50 Pieces
C-Clip Support Plate	50 Pieces
CPV+ Support Plate	50 Pieces
F30 Extension	50 Pieces
AK 3.5/5 Side Base	50 Pieces
AK 5/8 Side Base	50 Pieces
HS2 Slope Corrector	100 Pieces
HA5 Self Levelling	50 Pieces
Small Protection Rubber	100 Pieces
Large Protection Rubber	100 Pieces
Fitting Piece 2mm Solid Rubber	100 Pieces
Wall Finishing	200 Pieces
Edge Finishing Plate	1 Piece

Technical Specification	
Material	PP Polypropylene
UV	UV Stable
Compression	Crush resistance of 1100-1150kg per Riser (test data available on request)
Load Bearing	Up to 2400kg per m ² = 600kg per Riser
Biological/Chemical	Resistant to algae, moulds
Working Temperature	-20°C to 80°C
Frost Resistant	Yes
Water Absorption	0%
Saltwater Resistant	Yes

Please ensure that our Risers are suitable for use in the project you are undertaking and take advice from qualified person.
For further information visit www.pavetuf.com

Health & Safety

Hand Protection - Wear appropriate gloves.

Eye Protection - Wear protective goggles where appropriate.

Foot Protection - Wear appropriate safety boots.

Clothing - Wear appropriate protect clothing.



Please dispose of packaging and waste products in line with current environmental legislation.

It is your responsibility to ensure that you comply with all applicable health and safety legislation and guidelines.

www.pavetuf.com

For further information or technical advice call
0330 333 8030

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info@talasey.co.uk
0330 333 8030
www.talasey.co.uk




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