ALUMINIUM JOIST AND PEDESTAL INSTALLATION GUIDE

PEDESTALS

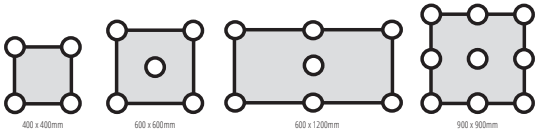
BY WHITERIVER

SOLIDOR are a European manufacturer of high quality pedestals for decking and concrete paving. The pedestals can be continuously adjusted in height from 17mm to 1000mm. The durability of the plastic and the solidity of the construction guarantee a smooth installation in all circumstances, and an unprecedented supporting power.

Made From Recycled Material | Weatherproof | Temperature Resistant between -25 / + 70°C | Certificates CSTC / CSTC No., DE, ATA | Load Bearing 800kg per Pedestal | PP Compound

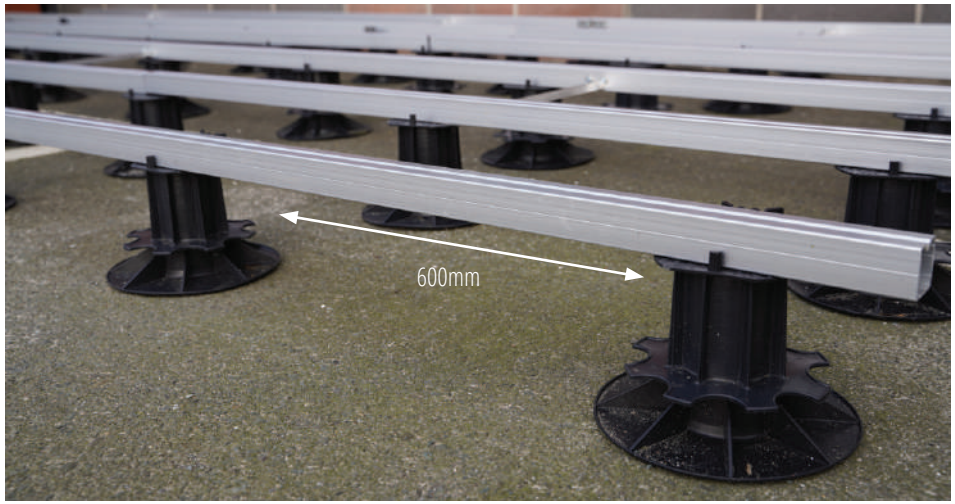
CAN ALSO BE USED FOR PAVING

COVERAGE GUIDE

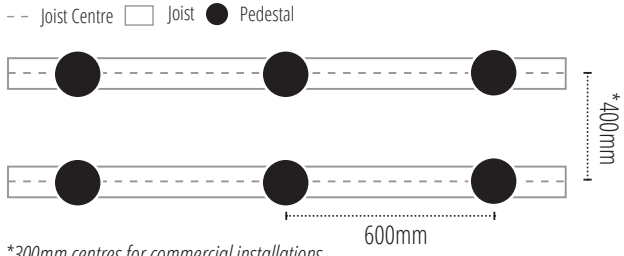


- Paving pedestals are recommended for slabs with a minimum size of 400x400mm, in accordance with the instructions of the paving manufacturer.
- Paving formats larger than 600x600mm will need an extra pedestal in the centre of the slab, please seek advice from your paving manufacturer as this will vary depending on thickness and overall strength of each paving slab.

DECKING COVERAGE GUIDE



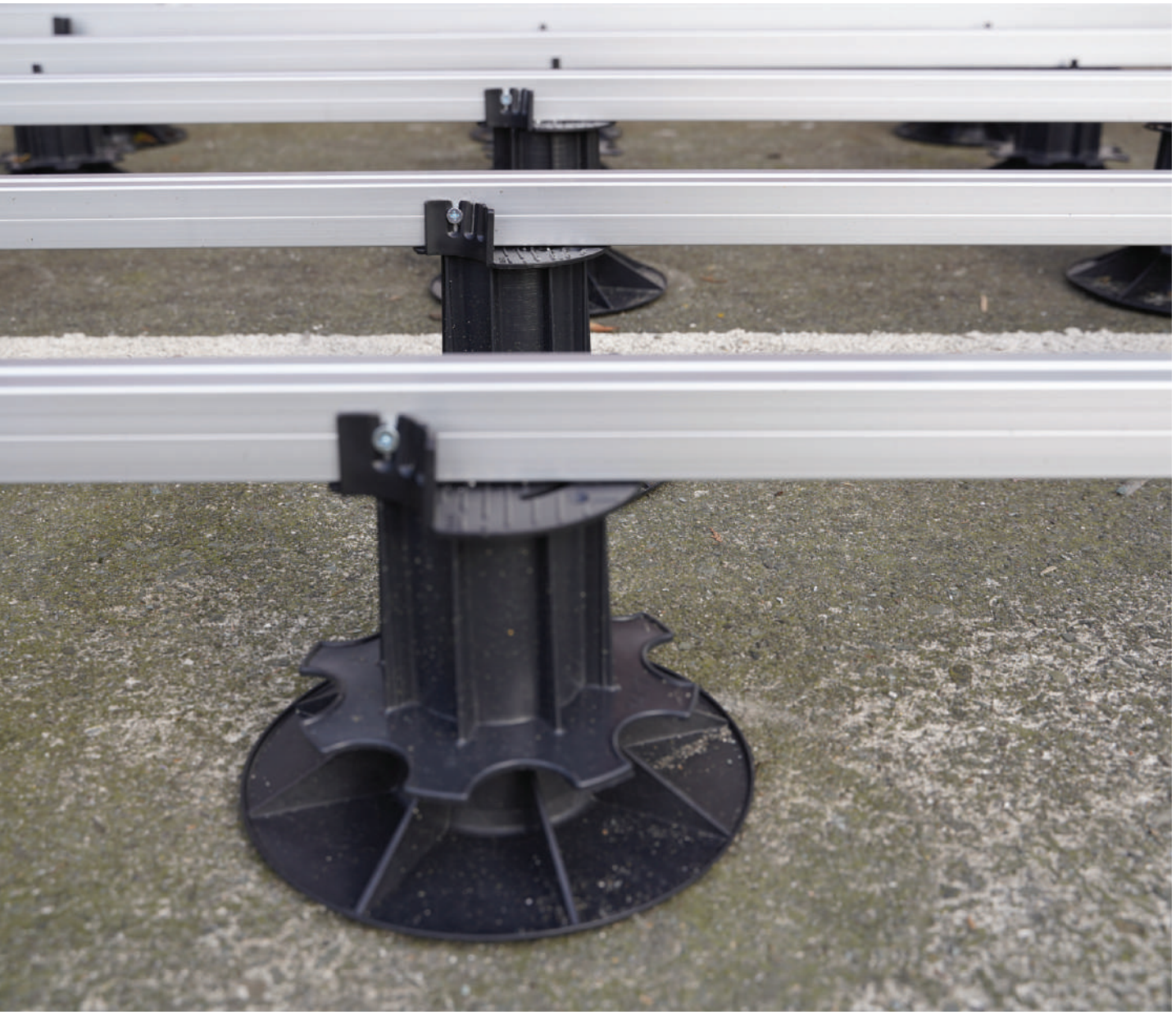
Spacing depends on joist strengths. 600mm spacing shown is for Whiteriver 38mm Aluminium Joists.



**300mm centres for commercial installations*

BASED ON THE ABOVE DIAGRAMS
WE RECOMMEND APPROX. 6.0 PEDESTALS PER M²

Pedestal spacing can be from 500mm to 1000mm along the joist length, however this depends on the application and joist strength. Whiteriver Aluminium joist can be used at 600mm Pedestal Spacing.



Pedestals offer great flexibility for installation and can be used for decking and paving. They are especially helpful where the installation is close to ground level, pedestals can be used for build ups from 17mm up to 1000mm.

Please note that for composite decking we recommend the installation be at least 100mm above ground level. Pedestals also provide for good air movement under a deck provided ventilation points are installed.

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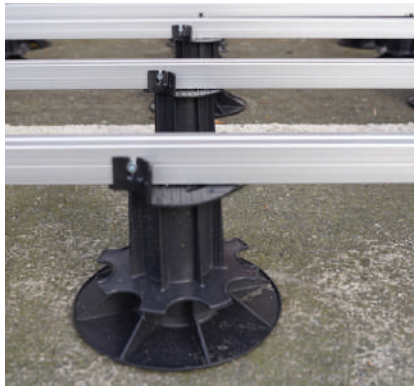
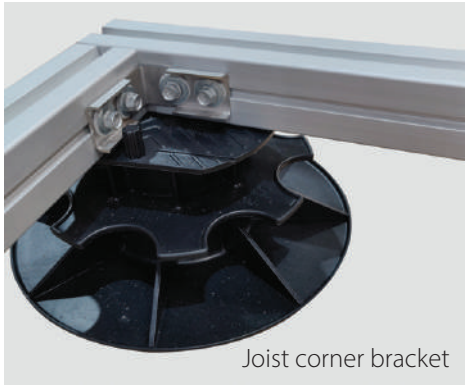
WHITERIVER ALUMINIUM JOIST SYSTEM


Joist joining bracket


Joist support




Joist corner bracket

Step 1 - Understand the spacing's required for the finished product going on top. For composite decking in residential setting using our 38mm aluminium joist, the spacing for the aluminium joist will be 400mm centres and the pedestal spacing will be 600mm.

Step 2 - Remember when planning to take account of the direction you want the boards to run, the board length and finishing look around the perimeter. Composite decking requires a fall of 1.66% (1:60 fall) for water to drain off the boards.

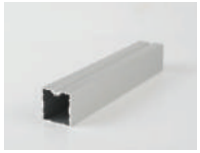
Step 3 - Building the frame for your composite decking – Set out pedestals and joist per above. Each pedestal should be screw fixed to the aluminium joist. Joiner brackets should be used where aluminium joists meet – leave a 4mm gap for expansion and drainage. Stabilisation joist supports can be used on outer frames; note it is not necessary to do these on every row.

Step 4 - Double Aluminium joist can be used where board ends meet. The wide joist allows each board to be fixed with its own clip and any water can drain in the U shaped channel.

Step 5 - Finishing perimeter – Corner brackets can be used with the aluminium joist to create a side frame. Remember to provide for ventilation for underneath your deck. Please look at the vents we offer.

Step 6 - All screw fixings for aluminium can be predrilling. For ease of installation we recommend tek screws and tek screw driver which are available from most Hardware stores. Aluminium can be pre drilled to make it easier for installing the tek screws.

Please refer to www.wrg.ie for our full installation guidelines for composite decking.


38 x 38 x 3000mm Aluminium Joist

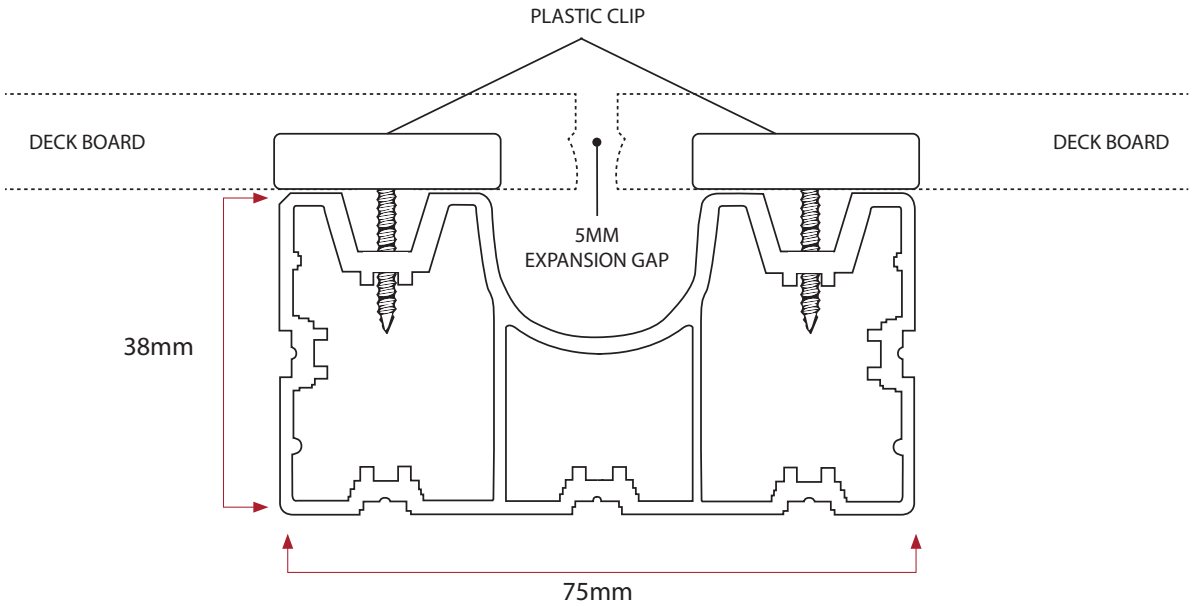

75 x 38 x 3000mm Aluminium Double Joist


362mm Joist Support for 400mm centres with 38mm joist

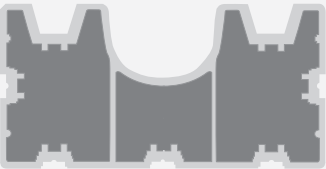

Joist Corner Bracket


Joist Joining Bracket

WHITERIVER DOUBLE ALUMINIUM JOIST SYSTEM



1. The Aluminium double joist should be used where two board ends meet.
2. The double joist provides stability for the fixing clips.
3. Remember to leave 5mm expansion gap.
4. The main reason for using the double joist is that it helps prevent moisture soaking into the board ends.
5. In a normal installation format, **you need approx. 20% of your joists to be double joists.***
6. It is very important to leave 5mm gap at joist ends so water can drain away freely.



*It is best to sketch out your deck layout and this will tell you clearly the number of double joists you need.

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STANDARD PEDESTALS SOLUTIONS

STEP 1

Once you know your height required, pick your base. It may be a case that you need a mixture of pedestal bases, if there are different heights within your project.

35MM - 50MM ADJUSTABLE PEDESTAL BASE

PV 3.5/5
PRICE EXCLUDES SUPPORT PLATE

K1420016

50MM - 80MM ADJUSTABLE PEDESTAL BASE

PV 5/8
PRICE EXCLUDES SUPPORT PLATE

K1420017

80MM - 110MM ADJUSTABLE PEDESTAL BASE

PV 8/11
PRICE EXCLUDES SUPPORT PLATE

K1420018

110MM - 140MM ADJUSTABLE PEDESTAL BASE

PV 11/14
PRICE EXCLUDES SUPPORT PLATE

K1420019

140MM - 170MM ADJUSTABLE PEDESTAL BASE

PV 14/17
PRICE EXCLUDES SUPPORT PLATE

K1420020

35MM - 50MM ADJUSTABLE PEDESTAL BASE
For use against wall

AK 3.5/5
PRICE EXCLUDES SUPPORT PLATE

K1420021

50MM - 80MM ADJUSTABLE PEDESTAL BASE
For use against wall

AK 5/8
PRICE EXCLUDES SUPPORT PLATE

K1420022

STEP 2

Pick the plate to go on top of your base. CPV+ is for timber and aluminium joists.

JOIST SUPPORT PLATE WITH SIDE FIXING

CPV+
MAX. JOIST WIDTH 78MM

K1420026

FLAT SUPPORT PLATE WITHOUT GUIDE

CO
FOR ADDITIONAL SUPPORT WHERE REQUIRED

K1420006

PAVING SUPPORT PLATE

C3/4T
PAVING SUPPORT PLATE WITH 3MM SPACERS

K1420007

STEP 3

Consider if any accessories are needed. Most common are extension pieces. Extension pieces can be used to bring pedestals up to 1m.

FRICTION PAD
For top of pedestal

2MM FRICTION PAD
FOR USE WITH PAVING SUPPORT PLATE

K1420010

30MM PEDESTAL EXTENSION PIECE

F30
MAX HEIGHT 8 PER PEDESTAL

K1420023

100MM PEDESTAL EXTENSION PIECE

AF100
MAX HEIGHT 10 PER PEDESTAL

K1420009

NEW

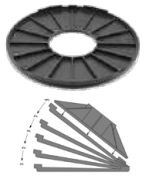
210 X 210 X 3MM PROTECTION PAD
For under pedestal

PROTECTION PAD
FOR SURFACE, SOUND & SHOCK ABSORBING PROTECTION. CAN ALSO BE USED AS SHIM FOR LEVELLING.

K1420025

NEW

SLOPE CORRECTOR



HS2
REDUCES INCLINATION DIFFERENCES FROM 2% TO 10% BY STACKING UNDER PEDESTAL

K1420015

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LOW HEIGHT PEDESTALS SOLUTIONS

STEP 1

Select an adjustable base 17mm to 23mm.

NEW

17MM - 23MM ADJUSTABLE PEDESTAL BASE

P17
PRICE EXCLUDES SUPPORT PLATE

K1420027

Our Premium low height range allows you to raise joists by as little as 17mm for an ultra low secure base for your project. The 3mm, 5mm & 10mm small rubber pads, can be used to support joists where the height requirement is < 17mm. **Note:** always remember to deduct the joist thickness plus finish product thickness from overall finished height required. For composite decking we recommend 100mm air space under the boards.*

**For low height build up please seek advice.*

Low pedestal solutions.

STEP 2

Pick the plate to go on top of your base. C2V+ is for timber and aluminium joists.

NEW

C2V+ JOIST SUPPORT PLATE

C2V+
MAX. JOIST WIDTH 90MM

K1420028

NEW

C4T PREMIUM PAVING SUPPORT PLATE

C4T
PAVING SUPPORT PLATE WITH 3MM SPACERS

K1420029

STEP 3

Consider if any accessories are needed. Most common are extension pieces, and joist support pads.

NEW

5MM EXTENSION PIECE

S5
MAX HEIGHT 2 PER PEDESTAL

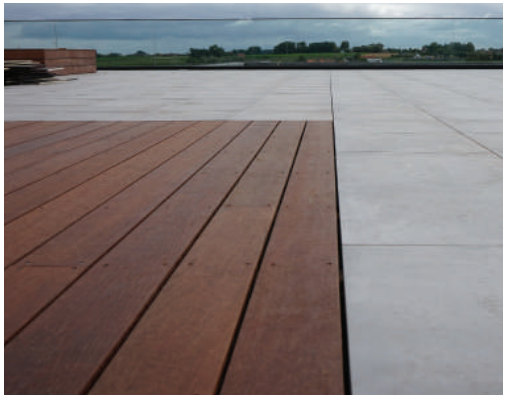
K1420030

NEW

96MM X 96MM JOIST SUPPORT PAD

Use directly under joists to build up heights <17mm

3MM - K1420031
5MM - K1420032
10MM - K1420033



Pedestals give great flexibility for installations and make it easy to allow decking and paving to be installed easily in the same area.