

JOIST JAK™

System Specifications

INTRODUCING

The Joist Jak™ Flooring System is a rigid, height adjustable self leveling proprietary support system for joist type constructed surfaces. The Joist Jak™ Flooring System is designed to provide a raised trafficable surface generally above a water proofing membrane or services and allows for construction of a level entry platform to facilitate pedestrian traffic flow.

PURPOSE

The Joist Jak™ can be used to support trafficable surfaces supported on joists. Joist Jaks™ are adjustable in height by way of an engineered screw thread between the two components (the top and the base). This allows for leveling of a trafficable surface for deck areas on roofs, balconys or porches. Additionally the Joist Jak™ can be used in instances of interior fit outs over services etc.

JOIST JAK™ SYSTEM COMPONENTS

Joist Jak™

The Joist Jak™ is the main component of the Joist Jak™ deck system. Joist Jaks™ come in a selection of sizes and are adjustable in height from 20mm up to 105mm. (additional Base Spacers can be added to achieve additional height)

The fins are spaced to accept 45mm timber and are grooved to allow easy penetration of fixing nails or screws. One 30mm galv or stainless (as required) nail or screw should be used on each side of the Joist Jak™.

The Joist Jak™ is adjustable in height by rotating the lower section of the jak either prior to, or after installation. The top section is self leveling



to 2 degrees. The underside is smooth with no sharp edges that may damage a water proofing membrane.

The 102mm width of the base is sufficient to provide stability and transfer both dead and live loads onto the substrate. The base also incorporates water egress channels to allow any build up of water within the Joist Jak™ to disperse. Spacing of Joist Jaks™ should be as per current NZS 3604 Joist span tables

Diameter 102mm
Height Adjustment 20mm up to 105mm
Screw adjustable top ¼ turn equals 2mm
Top fins 63mm long x 35mm high
Spacing between fins 47mm
Load tested to 3238kg

Base Plate



Utilised in some specific conditions, whilst not a requirement of the system in general, merit has been found in providing a larger footprint in the instance of a heavy dead load. The Base Plate has also been designed with sloping splines to allow for an increase in slope of the substrate by 2°. This allows Joist Jaks™ to be used on decks or substrates with a 4° fall.

Diameter 200mm

Height 10mm

Angled splines 2°

Recessed to seat Joist Jaks™ or spacers as required

Mushroom Spacer

The system requires the perimeter to be encased to lock the surface panels into a non moveable grid, the Mushroom spacer achieves this by being inserted into the edge (if thickness allows) of the perimeter panel. The thick end of the mushroom then spaces the grid off the cladding or perimeter edge by 6mm and allows water to run off the

cladding to the membrane or substrate below.

Insert diameter 6mm x 10 long
Buffer end diameter 11mm x 6mm long
Available only in black



Base Spacer 20mm



When the Joist Jak™ is fully extended any number of interlocking 20mm (modular) base spacers can be placed under the Joist Jak™ to provide additional height adjustment. The spacer, like the Joist Jak™, is free draining and will not collect water.

Diameter 110 mm

Height 23mm

Effective height adjustment 20mm

Weight 72 grams

Modular interlocking



Base Spacer 50mm



As with the 20mm base spacer the 50mm spacer operates exactly the same by providing a larger height adjustment. It also can be interlocked with the 20mm spacer.

Diameter 110 mm
 Height 53mm
 Effective height adjustment 50mm
 Weight 54 grams
 Modular interlocking



SPECIFICATIONS

Joist Jak™ and the associated components comply with NZ E2AS1 Third Edition New Zealand Building Standards B.2.31c Durability Joist Jak™ and the other components that make the Joist Jak™ System are made from a Black UV resistant polypropylene



Load testing maximum weights
 Screw thread 3238kg

JOIST JAK™ SYSTEM REQUIREMENTS

The finished surface should be sound and not have any panels that are not fully supported. The system requires all the surface panels to be locked together as one grid with a perimeter encasement. The substrate should be sound and capable of supporting both the Joist Jaks™ System and the dead and live loads that will be on it. Joist Jaks™ should not be adhered to a membrane substrate.

DETAILING

The Architect, Designer or end user must consider the edge detail in their designs to enable the system to be perimeter locked into the required grid. Urban Building Products Ltd staff can assist with the design requirements of the Joist Jaks™ System, however final responsibility rests with the designer &/or end user. Urban Building Products accepts no responsibility for the final design or detailing. Refer to the system requirements above.

WIND ZONES

Joist Jaks™ are not fixed to the substrate they sit on, so up lift of the elevated platform needs to be considered. While solid balcony railing provides protection against strong winds, designers & end users need to be aware of up lift from winds in exposed environments.

MAINTENANCE

Due to natural settlement/movement of buildings, panels or tiles should be checked periodically for rocking and the Joist Jaks™ adjusted. Wall spacers must be in place and replaced if worn or missing.



WARRANTY

Urban Building Products Ltd warrants that the Joist Jaks™ System being the Joist Jaks™, Spacers, Mushroom Spacers, will be free from product defects for a period of 5 years from the date of purchase subject to the conditions attached.

Conditions of Warranty

The warranty is strictly subject to the following conditions.

(A) The products must be installed by a competent person familiar with working in the building construction trade as a qualified builder or qualified tile layer.

(B) The system must be compliant with Joist Jaks™ Systems technical literature current at the time of installation, utilising Joist Jaks™ Systems products or components specified in the technical manual. Where the Joist Jaks™ systems technical manual does not provide a suitable detail for installation of the products then the installation must be in accordance with best trade practise determined in consultation with the relevant Territorial Authority and designer of the building works.

(C) Urban Building Products Ltd will not be liable under this warranty unless a written claim is notified to Urban Building Products Ltd within 30 days of the defect becoming reasonably apparent.

(D) This warranty is for the benefit of the original owner of the building where the Joist Jaks™ System has been installed. This warranty is not transferable to subsequent owners of the building.

(E) The building works in which Joist Jak™ Systems have been incorporated must be designed and constructed in strict compliance with all relevant provisions of

the current New Zealand Building Code (“NZBC”), regulations and standards, and the building consent relating to the building works.

(F) The customer’s sole remedy under this warranty is that Urban Building Products Ltd will either supply replacement products or rectify the affected products.

(G) Urban Building Products Ltd will not be liable for any losses or damages (whether direct or indirect) including property damage, personal injury, consequential loss, economic loss or loss of profits, arising in contract or negligence or howsoever arising. Without limiting the foregoing Urban Building Products Ltd will not be liable for any claims, damages or defects arising from or in any way attributable to poor workmanship, poor design or detailing, settlement or structural movement and/or movement of materials to which the Joist Jak™ System is applied, incorrect design of the structure, acts of God including but not limited to earthquakes, cyclones, tornado’s, floods or other severe weather conditions or unusual climatic conditions, efflorescence or performance of anything applied to the Joist Jak™, normal wear and tear, growth of mould, mildew, fungi, bacteria or any organism on the surface of any products, (whether on the exposed or unexposed surfaces).

(H) All warranties, conditions, liabilities and obligations other than those specified in this warranty are excluded to the fullest extent permitted by law. This warranty does not exclude or modify any legal rights a customer may have under the Consumer Guarantees Act 1993. Unless otherwise specified in writing at the time of sale, Urban Building Products Ltd assumes no liability for the Joist Jaks™ being fit for any other purpose under the Building Act 2004, other legislation or at common law.