



**URBAN**  
Building Products Ltd

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# DECK JAK® SYSTEM SPECIFICATIONS

## Introduction

The Deck Jak® System is a rigid height adjustable proprietary support system for concrete pavers, structural tiles or timber panels or other approved trafficable surfaces. The Deck Jak® System is designed to provide a raised trafficable surface above a waterproofing membrane or services. The system allows for the creation of a level entry platform and as well as allowing water run off to the waterproofing membrane below. Structural integrity is a requirement of any elevated trafficable surface used in conjunction with the Deck Jak® System. The Deck Jak® is adjustable in height and made from a rigid UV resistant polypropylene to support an elevated platform or surface.



## Purpose

The Deck Jak® can be used to support elevated level entry surfaces such as tiles, pavers or suitable trafficable panels over a waterproofing membrane on a roof, balcony or porch. Deck Jaks® are used to support flooring or a flooring grid over services in the instances of an interior office fit out.

The Deck Jak® has been designed for simple installation and allows easy access to the surface it sits on. The Deck Jak® will self level when sitting on a substrate with a 2 degree fall or less, with a further 2 degrees achievable with the addition of the "Base Plate." It is imperative that the Deck Jak® is not be attached to the waterproofing membrane it sits on. This will void any warranty the membrane may have.

## Components

### Deck Jak® Systems Components.

#### Deck Jak®



The Deck Jak® is the main part of the system which is generally used independently of the other base components. The Deck Jak® is adjustable in height by rotating the lower half of the jak. Height adjustment can also be achieved with a screw driver through an insertion hole in the centre top of the Deck Jak®, after the deck has been completed. The top section is self levelling to 2 degrees. The Deck Jak® is also available in various adjustable sizes from 20mm to 65mm. The underside of the base is smooth with no sharp edges that may damage the membrane. The width of the base is also sufficient to spread the load of both the dead and live loads transferred onto the membrane through the Deck Jak®. The base also incorporates water egress channels to allow any build up of water within the Deck Jak® to disperse.

Diameter 102mm  
Height Adjustment 65mm to 105mm  
Screw adjustable top ¼ turn equals 2mm  
Top fins 3mm wide 8mm high  
Load tolerable to 3238kg  
Weight 130grams

#### Base Spacer 20mm



When the Deck Jak® is fully extended any number of interlocking 20mm (modular) base spacers can be placed under the Deck Jak® to provide additional height adjustment. The spacer, like the Deck 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

#### 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 Deck Jaks® to be used on decks or substrates with a 4° fall.

Diameter 200mm  
Height 10mm  
Angled splines 2°  
Recessed to seat Deck 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  
Inserted in the edge of pavers or timber panels to space the panels off the cladding, also to allow access for water to run off of adjacent cladding.

### Tile Edge Clip



The edge clip is similar in purpose to the Mushroom Spacer above, the particular design is to clip over the edge of a 13mm structural tile to space the tile off the cladding.

30mm long x 20 mm x 10mm deep  
Recess 30mm x 13mm x 4mm  
Clipped onto the edge of structural tiles to space the tile off the cladding, also to provide access for water to run off the adjacent wall.  
Available in colours to match the tile if requested

### EPDM ( rubber ) spacer

Also used to lock the perimeter grid. The 12mm thick spacer with an adhesive tape on One side adheres to either the tiles or the cladding.

Available only in black  
20mm L x 12mm H x 12mm W

### Timber Top©



Used for providing adjustable support for timber panels on membrane decks. Identical to the Deck Jak® apart from the larger fins on either side of the head to which the timber joist is attached. 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 Timber Top© Spacings of Timber Tops© should be in accordance with NZS3604 2011 joist spans.(see section 7) to suit the size of the timber being used.

## Specifications



Deck Jaks® and the associated components comply with NZ E2AS1 Third Edition New Zealand Building Standards B2.31c Durability Deck Jaks and the other components that make the Deck Jak® System are made from a Black UV resistant polypropylene

Load testing maximum weights  
Lugs on the Deck Jak 1055kg  
Screw thread 3238kg

### Important Note

Tiles or pavers to be used as a trafficable surface should be tested independently on the Deck Jak® System to ensure the product is strong enough to take both the live and dead loads intended. Urban Building Products takes no responsibility for the surface product used in conjunction with the Deck Jak® System unless manufactured by Urban Building Products Ltd.

## Deck 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 Deck Jak® System and the dead and live loads that will be on it.

## 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 Deck Jak® 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

Deck 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 Deck Jaks® adjusted. Wall spacers or tile edge clips must be in place and replaced if worn or missing.

## Warranty

Urban Building Products Ltd warrants that the Deck Jak® System being the Deck Jaks®, Spacers, Mushroom Spacers, Tile Edge Clips 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 Deckjak® Systems technical literature current at the time of installation, utilising Deckjak® Systems products or components specified in the technical manual. Where the Deck Jak® 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 Deck Jak® System has been installed. This warranty is not transferable to subsequent owners of the building.

**(E)** The building works in which Deck Jak® System 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 Deck 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 Deck Jaks®, 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 Deck Jaks being fit for any other purpose under the Building Act 2004, other legislation or at common law.

