



## **OPERATIONS & MAINTENANCE MANUAL**

### MEGA BALANCE ADJUSTABLE HEIGHT PEDESTALS



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Please see Wallbarn Ltd Terms & Conditions of Supply – SEE APPENDIX A

IMS.T.961v1

## PRODUCT DESCRIPTION

**MEGA BALANCE PEDESTALS** – Adjustable Height Pedestals for use with suspended paving and decking systems with a self-leveling headpiece and a variety of headpiece designs for different applications.

25-1025mm in height – injection moulded support pedestals made from virgin fibre Polypropylene (PP) with no fillers. Packed into boxes of 20 units each. Weight tolerance per unit = 1,560kg.

## PHYSICAL AND CHEMICAL PROPERTIES

Height	Weight Tolerance				
25-30mm	<b>Maximum Load:</b> 20,713 N = 2,057kg  <b>End of Linear Behaviour:</b> 15,300N = 1,560kg  <b>CATAS Test Score</b> 179112 / 1				
30-37mm					
37-50mm					
50-75mm					
75-125mm					
125-225mm					
225-325mm					
325-425mm					
425-525mm					
525-625mm					
625-725mm					
725-825mm					
825-925mm					
925-1025mm					
The Grey Nut The Black Nut					
Material	Polypropylene				
Diameter of Head Piece	150mm				
Diameter of Screw	140mm				
Diameter of Base	200mm				
Lug width (paving)	4mm				
Distance between lugs (Clip head for aluminium rail)	60mm				
		<b>Score</b>	<b>Test Method</b>		
Melt Flow rate		14-16 Gr / 10'	ASTM D 1238		
Weight / density		0.99-1.04 Gr / cm3	ASTM D 792 Method A		
Softening point with load of 5kg (VICAT test)		>75 °C	ASTM D 1525		
Heat Deflection Test with load of 1820 kPa		> 90 °C	ASTM D 648		
Coefficient of elasticity		1600 Mpa	ASTM D 790		
Impact resistance (Izod test - <b>at 23°C</b> )		>40 J/m	ASTM D 256		
Impact resistance (Izod test - <b>at minus 20°C</b> )		>20 J/m	ASTM D 256		
Max Weight Tolerance <b>at minus 40°C</b>		27.830 N	<b>CATAS 179112 / 1</b>		
<b>Fire classification</b>	All MEGA BLANCE pedestals are classified as "EUROCLASS E" according to EN 13501-1:2009 as standard; "EUROCLASS B1" are available by special request				

<b>Appearance</b>	Black injection moulded pedestal
<b>Odour</b>	None
<b>pH</b>	n/a
<b>Boiling point</b>	n/a
<b>Softening point</b>	>75°C
<b>Flash point</b>	n/a
<b>Fire classification</b>	EuroClass E
<b>Toxicity</b>	These products are not classified as toxic

## The Key



<b>Material</b>	Stainless Steel
<b>Odour</b>	None
<b>Weight</b>	200 grammes
<b>Length of shaft</b>	160 mm
<b>Length of arms</b>	150 mm
<b>Diameter</b>	15 mm
<b>Fire classification</b>	EuroClass A
<b>Toxicity</b>	These products are not classified as toxic
<b>How to Use The Key</b>	<a href="#">How to use "The Key" to adjust the Mega-Balance Pedestal - YouTube</a>

## PRODUCT INFORMATION

<https://www.wallbarn.com/pedestals-2/self-levelling-heavy-duty/>

## PRODUCT ASSEMBLY

Please see assembly and instruction video here

[MegaBalance Pedestal Overview - YouTube.](#)

## PRODUCT INSTALLATION

To be used on predominantly flat decks. Suitable for flat roofs, podium decks, balconies, terraces and walkways.

Units to be placed onto the structural decks, sufficiently strong to tolerate the weight of the system. Waterproofing membranes to be adequately protected before installation of units to prevent point loading and / or puncturing of membrane.

Pedestals are usually loose laid without mechanical fixings or adhesive to allow them to move independently from the structural building and prevent stress points. However, if fixing the pedestals into the subdeck is required (and waterproofing seals etc. are not compromised) mechanical fixings can be fitted through series of holes moulded into the baseplates.

Pedestals placement is based on many factors and our technical staff can help advise recommended placement but typically we would not recommend exceeding 600mm span between pedestals.



## For Paving



Slabs / tiles are loose laid onto headpieces between four integrated lugs to position and separate them and provide 4mm gap for drainage. The Key is used to adjust the height of the pedestal after the full system has been installed without having to lift the slab / tile [How to use "The Key" to adjust the Mega-Balance Pedestal - YouTube](#) .

## For Decking



Place timber or composite joist onto headpiece between the positioning lugs so it is suspended on top of the pedestal. There is no need to mechanically fix the joists to the pedestals.

Cross fix the joists to form a framework. Adjust the height of the pedestals to create a flat framework level. Fix the decking boards perpendicular to the main joist beams using top fixings or side fixings.

## The Grey Nut



Mega Balance is supplied with a self-leveling headpiece as standard but the head can be locked in place by inserting the Grey Nut into the centre of the headpiece [MegaBalance Pad - Using The Grey Nut - YouTube](#) .

## The Black Nut



The Black Nut can be used on the lower height Mega-Balance which allows you to adjust the height instead of the key. By pushing this nut into the central part of the headpiece it allows you to twist the stem of the pedestal to adjust the height when already in situ.

## MAINTENANCE DETAILS

Products are designed to be covered and not disturbed in the long-term.

Gaps between paving slabs / decking boards should be kept clear and free of debris to allow proper drainage of the upper surface and prevent ponding and slip hazards.

Cavities between the structural subdeck and the surface material (paving / decking) should be inspected at regular intervals (at least once per year) to ensure drainage channels do not become blocked and flammable material does not collect. Jets of water should be used to remove limited amounts of debris, taking care not to block up or damage drainage outlets.

For large or compacted debris build-up, removal of the upper surface (paving or decking system) will be required to remove the debris. Removal should be carried out by machines if required.

## HAZARDS IDENTIFICATION

The major hazards identified for these products are physical and include manual handling.

## FIRST-AID MEASURES

In event of cuts or injury, wash out wound with plenty of clean water. Seek medical attention.

## **FIRE-FIGHTING MEASURES**

These products do not constitute a fire hazard. Use extinguishing media appropriate to the surrounding fire conditions.

## **ACCIDENTAL RELEASE MEASURES**

Damaged product can be taken up and disposed of to landfill as inert waste if necessary; however recycling is the preferred method of disposal. As supplied, the products are not classified as hazardous.

## **HANDLING AND STORAGE**

When handling product, due regard should be paid to the risks outlined in the Manual Handling Operations Regulations 1992, appropriate PPE should be used.

When cutting the product with a saw, appropriate measures to control dust should be used. The product should be stored in a safe and stable manner.

## **PERSONAL PROTECTIVE EQUIPMENT**

Wear suitable protective clothing e.g. overalls, gloves and safety boots to reduce the chances of physical injury while using this product.

Local Exhaust Ventilation, goggles and a dust mask to the relevant European standard (EN149) may be required if a cutting method that liberates dust is used.

## **ECOLOGICAL INFORMATION**

Subsequent to manufacture, this is a stable product with no known adverse environmental effects.

## **DISPOSAL CONSIDERATIONS**

Dispose of this product at any approved solid waste disposal site but recycling is best and recommended method of disposal. Wallbarn Mega Balance pedestals are made from virgin fibre Polypropylene and therefore will make for a higher quality recycled product. Disposal of the product should be in accordance with any local or national regulations although recycling is preferred.

## **WARRANTIES**

A limited warranty exists that the products will comply with the test data as laid out earlier in document. Warranty is limited to replacement of products which have been installed in the correct manner and for the correct purpose only. Warranty is limited to the value of the cost price of the materials only, not replacement costs or any other labour cost.

## TRANSPORT INFORMATION

Classification for conveyance: - None required.

## KEY CONTACTS

Wallbarn Ltd.

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Email: sales@wallbarn.com Web:

www.wallbarn.com

## APPENDIX A:

The following table summarizes the documents and URLs referenced in this document.

Document Name	Location
Mega Balance website URL	<a href="https://www.wallbarn.com/pedestals-2/self-levelling-heavy-duty/">https://www.wallbarn.com/pedestals-2/self-levelling-heavy-duty/</a>
Wallbarn Ltd Terms & Conditions	<a href="https://www.wallbarn.com/terms-conditions-of-supply/">https://www.wallbarn.com/terms-conditions-of-supply/</a>
<b>Accessories for Mega Balance Pedestals</b> Metal Edge Plate Ventus Uplift bracket Pedestal Column Extender Rubber Crumb Acoustic Pad Levelling Shims	<b>Links</b> <a href="https://www.wallbarn.com/pedestals-2/metal-edging-plate/">https://www.wallbarn.com/pedestals-2/metal-edging-plate/</a> <a href="https://www.wallbarn.com/pedestals-2/wind-uplift-bracket/">https://www.wallbarn.com/pedestals-2/wind-uplift-bracket/</a> <a href="https://www.wallbarn.com/pedestals-2/pedestal-column-extender/">https://www.wallbarn.com/pedestals-2/pedestal-column-extender/</a> <a href="https://www.wallbarn.com/pedestals-2/rubber-crumb-acoustic-pad/">https://www.wallbarn.com/pedestals-2/rubber-crumb-acoustic-pad/</a> <a href="https://www.wallbarn.com/pedestals-2/accessories/">https://www.wallbarn.com/pedestals-2/accessories/</a>





## LIMITED WARRANTY

Date: 1<sup>st</sup> January 2023

Wallbarn Ltd provides a limited warranty of 15 years for products. This Warranty corresponds to the performance and strength characteristics given in the published technical datasheets.

Wallbarn Ltd warrants that, under normal use and service conditions, and where the products have been installed in the proper manner, Wallbarn Ltd products shall be free from material defects in workmanship and materials, shall not crack, splinter, swell, rot or suffer structural damage from damp or fungal decay.

If a defect occurs within the Warranty Period, the Purchaser shall notify Wallbarn Ltd in writing and, after investigation and confirmation of the defect(s) by a Wallbarn Ltd representative, Wallbarn Ltd's sole responsibility shall be limited to replacement of the affected products or to refund the Purchaser up to the maximum value of the Sales Invoice.

This warranty is null and void if:

- The products are not installed in the proper manner as detailed in official Wallbarn Ltd product catalogues, installation guides and technical datasheets.
- The products are not used for the purposes they are intended, as detailed in official Wallbarn Ltd product catalogues, installation guides and technical datasheets.
- Excessive weights, higher than the maximum weight as detailed in official Wallbarn Ltd product catalogues, installation guides and technical datasheets are placed onto the products.
- The products are installed in contravention of any relevant building regulations, code or standards.
- Any relevant building regulations, code or standards, including fire safety regulations are breached on the project during the construction process.
- There is movement, distortion, collapse or settling of the supporting structure on which Wallbarn Ltd products are installed.
- Any abnormal natural event such as flooding, hurricane, earthquake, lightning, etc, occurs.

## Wallbarn Ltd – Limited Warranty

This limited warranty does not cover any living product or any product which sustains life. This includes sedum and other plants and substrate mixes for M-Tray® and any other green roof system. The living and growing elements of M-Tray® and other green roof systems are specifically excluded from this Warranty.

This Warranty is limited to the maximum amount of the Sales Invoice and Wallbarn Ltd is not liable for any costs of examination, removal or installation of products. Wallbarn Ltd will not be responsible for any costs or expenses incurred during removal and replacement, including labour or transport costs.

This warranty is given only if the products are used for the purposes they are intended, as detailed in official Wallbarn Ltd product catalogues, installation guides and technical datasheets and are installed in the correct manner.

To make a claim under this Limited Warranty, the Purchaser should contact Wallbarn Ltd with a full report of the defects within the Warranty Period, including photographic evidence and proof of purchase. Any claim should be made to [sales@wallbarn.com](mailto:sales@wallbarn.com) as soon as possible by the Purchaser.

Our Terms & Conditions of Supply <https://www.wallbarn.com/terms-conditions-of-supply/> can be found here.



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