



Technical Datasheet

Mega Balance Adjustable Pedestal

Technical Data

DESCRIPTION	Heavy duty, Self-levelling Adjustable Pedestals with a universal headpiece for paving or decking applications. Ideally suited for commercial applications or suspended systems that need to accommodate high traffic.	
HEIGHT RANGES	WEIGHT TOLERANCE	
<p> *25mm to 75mm 75mm to 125mm 125mm to 225mm 225mm to 325mm 325mm to 425mm 425mm to 525mm 525mm to 625mm 625mm to 725mm 725mm to 825mm 825mm to 925mm 925mm to 1,025mm *(25-75mm comprises of four components - Base + Half Dome + Dome + Headpiece) </p>	<p> Maximum Load : 31.68 kN (Approximately 3,230kg) STS Laboratory Certificate No: IC11715 *(Go to Test) </p>	
Stainless Steel Key	To adjust the height of the pedestals whilst slabs/tiles are in situ for paving projects.	
Self Levelling Headpiece	Can accommodate slopes/gradients of up to 5% (2.86° or 1 in 20 fall)	
Grey Nut	Allows the tilting mechanism to be anchored, fixing the headpiece in position. Particularly ideal for perimeter installation of small slabs/tiles.	
Pedestal Material	80% Virgin Polypropylene / 20% Recycled Polypropylene	
Acoustic Shim (On Headpiece)	TPE	
Headpiece Diameter	150mm	
Base Diameter	200mm	

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IMS.T.915.v4

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	Score	Test Method
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 - at 23°C)	>40 J/m	ASTM D 256
Impact resistance (Izod test - at minus 20°C)	>20 J/m	ASTM D 256
Max Weight Tolerance at minus 40°C	27.830 N	CATAS 179112 / 1
Fire classification	MEGA BALANCE pedestals are classified as "EUROCLASS E" according to EN 13501-1:2009	



Paving



Timber Joist



Aluminium Rail/Joist

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Mega Balance Height Range & Accessories

Dome



25mm Extension
(Max 3 can be used
on any one pedestal)

Mega Balance
Key



Adjust height of
pedestal with
tile/slab in place

Grey Nut



Turns Self Levelling
headpiece into fixed
position

Black Nut



Allows height to be
adjusted from
pedestal base



25-50mm



25-75mm



75-125mm



125-225mm



225-325mm



325-425mm



425-525mm



525-625mm



625-725mm



725-825mm



825-925mm



925-1025mm



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APPENDIX A:

TEST CERTIFICATE
LOAD TESTING IN ACCORDANCE WITH
THE CLIENT'S SPECIFICATION



On Wallbarn Limited,
3 Hagley Court North, The Waterfront, Dudley, West Midlands, DY5 1XF

PROOF LOAD TESTING
STS LABORATORY

TEST DESCRIPTION: A weight tolerance test was conducted on two plastic mega balance pedestals. Testing was completed using a jack to apply a vertical compressive load centre to the product, to confirm structural performance and determine load failure limit. All testing was carried out in accordance with the client's specification.

REF NO.:	DR-5744	DATE TESTED:	15 th May 2024
JOB NO.:	P10259	CERTIFICATE DATE:	24 th May 2024
CERTIFICATE NO.:	IC11715	SUPPLIER/SOURCE:	Client

TEST DETAILS:			
Product Tested:	Plastic Mega Balance Pedestal	Item Condition:	New
Target Loads:	Failure	Ambient Temperature:	18°C
Test Location:	STS Laboratory	Procedure or Method:	Client's Specification

TEST RESULTS:

Test Product	Load Achieved (kN)
25 – 50mm Mega Balance Pedestal	46.99
125 – 225mm Mega Balance Pedestal	31.68

ANALYSIS:

Testing was completed with both mega balance pedestals obtaining failure loads. Following this, the highest load achieved at failure was the 25 – 50mm mega balance pedestal, achieving a load of 46.99kN before failure. The 125 – 225 mega balance pedestal obtained the lowest load achieved, with 31.68kN before the product began to deform. All testing was completed within the client's specification.

For Specialist Technical Services (U.K) Limited		The results found on this Certificate relate only to the product[s] tested as described above This Test Certificate shall <u>not</u> be reproduced except in full QC: TC001 – Test Certificate – v4.0 Page 1 of 1
Approved By: Andrew Gore		
Position: Technical Director		
Signature:		

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