



# Technical Datasheet

## Mega Balance Adjustable Pedestal

### Technical Data

<b>DESCRIPTION</b>	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.	
<b>HEIGHT RANGES</b>	<b>WEIGHT TOLERANCE</b>	
<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> <b>Maximum Load :</b>  <b>31.68 kN</b>  <b>(Approximately 3,230kg)</b>  <b>STS Laboratory Certificate No:</b>  <b>IC11715</b>  <a href="#">*(Go to Test)</a> </p>	
<b>Stainless Steel Key</b>	To adjust the height of the pedestals whilst slabs/tiles are in situ for paving projects.	
<b>Self Levelling Headpiece</b>	Can accommodate slopes/gradients of up to 5% (2.86° or 1 in 20 fall)	
<b>Grey Nut</b>	Allows the tilting mechanism to be anchored, fixing the headpiece in position. Particularly ideal for perimeter installation of small slabs/tiles.	
<b>Pedestal Material</b>	80% Virgin Polypropylene / 20% Recycled Polypropylene	
<b>Acoustic Shim (On Headpiece)</b>	TPE	
<b>Headpiece Diameter</b>	150mm	
<b>Base Diameter</b>	200mm	

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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 Joist**

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# Mega Balance Height Range & Accessories

Half Dome



12.5mm Extension  
(Max 3 can be used  
on any one pedestal)

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**



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**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.

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


<b>TEST DETAILS:</b>			
<b>Product Tested:</b>	Plastic Mega Balance Pedestal	<b>Item Condition:</b>	New
<b>Target Loads:</b>	Failure	<b>Ambient Temperature:</b>	18°C
<b>Test Location:</b>	STS Laboratory	<b>Procedure or Method:</b>	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.

<b>For Specialist Technical Services (U.K) Limited</b>			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
<b>Approved By:</b>	Andrew Gore		
<b>Position:</b>	Technical Director		
<b>Signature:</b>			

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