

Technical Data Sheet

Dimensions, weights, materials, load tests



The opened trellis forms an electrical and mechanical safety platform for many types of work and inspection

240 Mat – for electrical safety

Technical Data

Purpose: For proof against accidental contact with mains electrical voltages during access into roof spaces, attics, etc; whilst spreading the weight of an inspector across several rafters to avoid falls through ceilings

Type of 240 Mat	Expanded size metre x mm	Area m ²	Closed size mm	Weight kg	Colour code
Small	2.0 m x 720 mm	1.4 m ²	980 x 500 mm	10 kg	Red
Medium	2.0 m x 820 mm	1.6 m ²	1160 x 500 mm	11 kg	Red
Large	2.0 m x 950 mm	1.9 m ²	1330 x 500 mm	11 kg	Red
Maximum spread load: One operative and some materials		150 kg max This is mat rating; NB: check that the rafters / joists of the roof space will also take this load			
Safety devices fitted:					
Red indicator stripes to show edges of all mats					
Anti-slip pads on underside of all bars to prevent mat slipping on rafters					
Carrying handle; Straps & buckles to hold mat closed for access (and storage)					
"Anti-finger-trap" device fitted to all mats to prevent full closure of trellis					
Operation details:					
Mats interlock together without any trip edge					



Inserting closed mat through roof space hatch

MATERIALS:	
Insulation layer:	White rigid uPVC
Trellis bar material:	Aluminium alloys to BS 2037: 1994 section 1.5.6

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STRENGTH TESTS:	
Point load test:	90 kg single load applied via a 50 mm square plate while mat supported on bearers spaced at 600 mm to simulate typical truss configuration Residual deflection less than 3 mm; meets BS 2037
Distributed load capacity test:	300 kg spread over 3 spans each 600 mm between centres Loaded deflection less than 30 mm Residual deflection less than 3 mm; meets BS 2037
Drop test:	90 kg from a height of 2.4 m onto middle of 600 mm span Drop load did not penetrate trellis of mat
Independent tests:	Type and proof tests witnessed by Health & Safety Services Ltd
NB. BS 2037 is written to cover ladders, lightweight staging and long span decking. Since no standard yet exists for products such as the 240 Mat safety trellis, BS 2037 has been used as a basis for evolving the above tests	

ELECTRICAL TEST:	
Electrical safety individual test:	Institute of Electrical Engineers / British Standard Portable Appliance Test (PAT) Conducted at 3,000 Volts DC – dual insulation, by certified test engineer

Identification and Manufacture date:	Each 240 mat is identified by a stamped unique serial number and date code
Traceability & inspection:	The condition of each mat on site or stored is logged on our safety audit computer file by point of delivery; this provides a prompts to the customer for the annual inspection of every mat

The concept and design is protected by patents and patent applications for the UK and other countries
We will continue to improve our designs; therefore, this design data may be up-dated without notice. Please contact us for latest information if any aspect of the dimensions is crucial to your application.