

Technical Data Sheet

Dimensions, weights, materials, load tests



STS – Safety Trellis System

Technical Data

Purpose: To prevent falls from roof truss spreads, girder trusses, hip roof assemblies and similar structures during construction work

Type of STS Mat	Expanded size metre	Area m ²	Closed size metre	Weight kg	Colour code
Setup Mat	2.0 x 1.16 m	2.3 m ²	1.6 x 0.4 m	10 kg	none
Standard Mat	3.6 x 0.7 m	2.5 m ²	1.0 x 0.7 m	11 kg	Blue
Opposite Mat	3.6 x 0.7 m	2.5 m ²	1.0 x 0.7 m	11 kg	Yellow
Maximum spread load: One operative and some materials		150 kg max			
Safety devices fitted:					
Red indicator stripes to show edges of all mats					
Straps & buckles at each end of all mats to fix mat ends to rafters					
"Anti-finger-trap" device fitted to all mats to prevent full closure of trellis					
Operation details:					
Mats interlock together without any trip edge. To overlap mats while reducing trip edge to less than 13 mm use an Opposite bias mat together with a Standard mat					



The closed up mat is easy to carry, hoist and store

Materials:	Aluminium alloys to BS 2037: 1994 section 1.5.6
Point load test:	90 kg single load applied via a 50 mm square plate while mats 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:	600 kg spread over 6 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 STS safety trellis decking, BS 2037 has been used as a basis for evolving the above tests	

Identification and Manufacture date:	Each trellis 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; this prompts 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.

STS TDS / Iss 2b / Jan 2006