



## StairSpan Technical Data

**Purpose:** To prevent the falls into stairways of carpenters, electricians, plasterers, painters, and other operatives, etc, whilst maintaining full access for the operatives and materials up and down stairway - or ladder before staircase is fitted

### FRAME:

Type of SPS frame	Adjustable overall length (telescopic) metre	Width mm	Weight kg
Compact model	1.4 to 1.9 m	690 mm	17 kg
Standard model	2.1 to 3.0 m	690 mm	24 kg
Double model **	2.8 to 4.9 m	690 mm	17 & 24 kg**
** Double model is achieved by linking 1 Compact and 1 Standard frame			
<b>Legs available:</b> One set of legs is provided with each frame, to fit the floor-to-floor height to suit your project. If required, further pairs of legs may be purchased			
<b>Floor-to-floor heights available are adjustable up to maximum heights:</b>			
Short leg set	Medium leg set	Standard leg set	Long leg set
up to 1,395 mm	up to 1,995 mm	up to 2,595 mm	up to 3,075 mm
<b>Maximum spread load</b> one operative and some materials		<b>225 kg max</b>	
<b>Safety devices fitted:</b>			
Locking clamps on telescopic length tubes			
Legs lock in place; secured by stainless steel drop-nose locking pins			
Horizontal stabilizer bars to eliminate lateral movement			
Metal locating pins at each end of frame to prevent mat sliding when void closed			




**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.

# Technical Data Sheet



## Dimensions, weights, materials, load tests

### MAT: which comprises the safety deck platform:

Type of SPS Mat	Expanded size metre x mm	Closed size metre	Weight kg	Colour code
Compact mat	1.9 m x 720 mm	1.0 x 0.5 m	6 kg	Black
Standard mat	3.0 m x 720 mm	1.0 x 0.8 m	9 kg	Green
<b>Safety devices fitted:</b>				
Red indicator stripes to show edges of mat Straps & buckles to hold mat closed for carrying and for storage "Anti-finger-trap" device fitted to mat to prevent full closure of trellis				
For full details of use of this equipment, see our Method Statements available at <a href="http://www.simplifiedsafety.co.uk">www.simplifiedsafety.co.uk</a> .				



### OPTIONAL ACCESSORIES: at additional cost

<p><b>Stabiliser Arm:</b> (on right) Twin tube set with clamps and foot pad to provide substantial lateral stability when required; 2.2 metre overall</p>		
<p><b>Accessory Handrails are recommended:</b> comprising SPS safety posts, clamps and telescopic rails, for attachment to the SPS horizontal frame. Adjustable to suit virtually all typical stairway applications. (see picture far right)</p> <p>Height of top rail above mat: 1.1 metre For a typical installation, 3 posts and 2 rails required per side Strongly recommended</p>		

### SPECIFICATIONS:

<b>Materials:</b>	Frame and mat: Aluminium alloys to BS 2037: 1994 section 1.5.6 Adjustable feet: Galvanized steel
<b>Point load test:</b>	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
<b>Distributed load capacity test:</b>	150 kg spread over mat on a typical frame Loaded deflection less than 30 mm Residual deflection less than 3 mm; meets BS 2037
<b>Overall proof test</b>	1,500 kg spread over mat on frame to confirm safety margin in frame design No collapse of frame or any SPS component
<b>Drop test:</b>	90 kg from a height of 2.4 m onto middle of mat Drop load did not penetrate trellis of mat
<b>Independent tests:</b>	Type and proof tests witnessed by Health & Safety Services Ltd
<i>NB. BS 2037 is written to cover ladders, lightweight staging and long span decking. Since no standard yet exists for products such as the SPS safety platform system, BS 2037 has been used as a basis for evolving the above tests</i>	

<b>Identification and Manufacture date:</b>	Each frame and mat is identified by a stamped unique serial number and a date code
<b>Traceability &amp; inspection:</b>	The condition of each frame and mat on site or stored is logged on our safety audit computer file by point of delivery; this provides a prompt to the customer for the annual inspection of each item