TECHNICAL DATA SHEET

MPS — Multi Purpose Support

The Multi Purpose Support (MPS) has been designed as a mid-sized support to cater for the "gap" in the market for decks that are a bit too high for our "Adjustable Joist Support" (AJH) and a bit too low for our "Adjustable Bearer Support" (ABS).

The MPS can be used either with a bearer/joist combination (conventional deck building), or with just larger sized joists (eg 90, 140 or 190mm) when space or practicality does not permit a standard bearer/joist combination.

Material & Finish

Hot Dip Galvanised Steel (275g/m2)

Base

3.0mm thick

Seat

3.0mm thick

Corrosion Information

For corrosion and fastener information, and general warnings, see:

- https://strongtie.co.nz/resources#corrosion-information
- https://strongtie.com.au/resources#corrosion-information

Approvals

Manufactured to meet deck loading as per Australian/New Zealand Standard AS/NZS 1170.1:2002, Permanent, imposed and other actions.

Span requirements (should be taken in conjunction with your timber span tables as timber spans are often your limiting factor):

- For 1.5 kPa rated decks, you must have a minimum of one MPS per every 6 square metres spread evenly across your deck.
- For 3.0 kPa rated decks, you must have a minimum of one MPS per every 3 square metres spread evenly across your deck.

Height Levels:

- Minimum height with locking nut – 100 mm
- Minimum height without locking nut – 90 mm
- Maximum design height – 150 mm

Minimum top of joist heights using MPS at lowest height of 90 mm (bottom of joist or bearer)

- 180 mm – using a 90 x 45mm joist – however this is not really a cost-effective way of achieving this height due to span limitations of most 90 x 45mm joists.
- 180 mm – using 90 x 90mm bearers and hanging the joists inside the bearers is a more cost-effective way of achieving the height as it uses less MPS per square metre.

Maximum top of joist heights using MPS at highest height of 150 mm (bottom of joist or bearer)

- 340 mm – using 190 x 45 mm joist without bearers
- 430 mm – using 190 mm bearers, with 90mm joists on top

Note – the above information is a "practical" rather than an "absolute" document. There will be a number of ways to achieve the heights mentioned with different sized bearers and joists, however the installer should always be mindful to operate within the product parameters and relevant joist/bearer span tables.

Technical Data

Model No.	Member Width (mm)	Fasteners		Downward Design Capacity (kN)
		Anchor Dia. (mm)	Screws	
MPS	45-65	2-M10 x 60THD	2-SDS 6.4 x 38mm	10.0
	65-100		2-SDS 6.4 x 76mm	

Notes for Installation

- Insert Simpson Strong-Tie SDWH27 Timber-Hex screws into the large holes or 6.4mm SDS Heavy Duty Connector Screws into the smaller holes. Minimum 2 of either screws or bolts must be installed.
- When fixing 65mm - 100mm wide timber to MPS use 6.4mm x 76mm SDS Heavy Duty Connector Screws. When fixing 45mm - 65mm wide timber to MPS use 6.4mm x 38mm SDS Heavy Duty Connector Screws

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