MSTC & MDCST Straps

Diaphragm and Tension Straps

Straps are designed to carry tension loads in wide variety of applications

Simpson Strong-Tie tested and load-rated tension straps and fasteners are designed to minimise cost and maximise speed and precision — while providing the strength, versatility and reliability you depend on. The MSTC & MDCST Straps are designed to resist tension loads in timber-to-timber applications.

Materials

- Carbon Steel

Finish

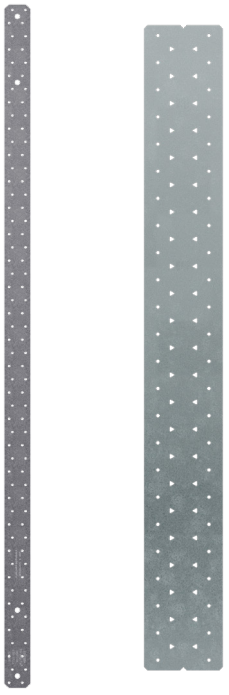
- Z275 Galvanised

MSTC78 - Designed to be installed with nails

- A high-capacity strap that utilises a staggered nail pattern to help minimize timber splitting
- Nail slots have been countersunk to provide a lower nail head profile
- Load-rated, precut strap designed for quick installation and optimal performance
- Loads have been increased for wind and seismic forces
- Floor-to-floor clear span application

MDCST48 - Designed to be installed with screws

- A high-capacity strap specifically designed to carry tension across a CLT floor or wall-panel joint
- The MDCST48 installs with Strong-Drive® SDS Heavy-Duty Connector screws
- Pre-punched screw holes speed fastener installation
- High capacity eliminates the need for expensive shop-fabricated steel plates
- Straps may be overlapped to reduce the physical space or footprint needed to transfer high loads across a panel joint



MSTC78 MDCST48

Simpson Strong-Tie® Australia
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www.strongtie.com.au

Simpson Strong-Tie® New Zealand
Call **09 477 4440**
www.strongtie.co.nz

Simpson Strong-Tie Limited Warranty: For the Limited Warranty that applies to Simpson Strong-Tie products, please consult www.strongtie.com.au/warranty or www.strongtie.co.nz/warranty. To obtain a copy of the Limited Warranty, contact us at info.au@strongtie.com or info.nz@strongtie.com, or at the number provided here. The Limited Warranty contains important disclaimers, limitations and exclusions, and applies only if the products have been properly specified, installed, maintained, and used in accordance with the design limits and the structural, technical, and environmental specifications in the Simpson Strong-Tie Documentation. All future purchases of Simpson Strong-Tie products are subject to the terms of the Limited Warranty in effect as of the purchase date.

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F-C-MSTC&MDCST-AUNZ26

MSTC & MDCST Straps

Diaphragm and Tension Straps

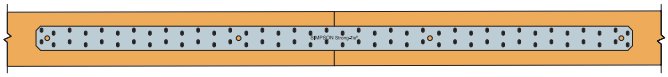
Installation

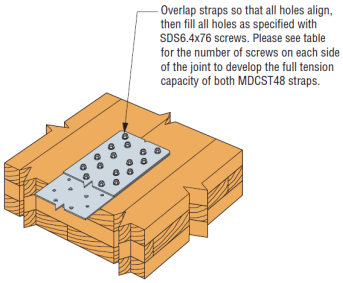
MSTC78

1. Use half of the required fasteners* in each member being connected to achieve the listed loads.
2. Not all fastener holes need to be filled, as additional fastener holes are provided. Install fasteners symmetrically.

MDCST48

1. Use half of the required fasteners* in each member being connected to achieve the listed loads.
2. When using the MDCST48 as a single strap, fill only round holes.
3. When using the MDCST48 as a double/overlapped strap, fill round and triangle holes.
4. When strap is doubled, use double the tabulated loads and double the fasteners.

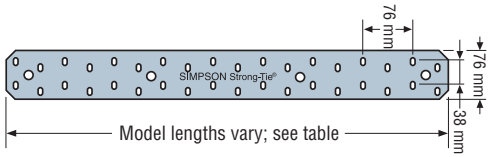




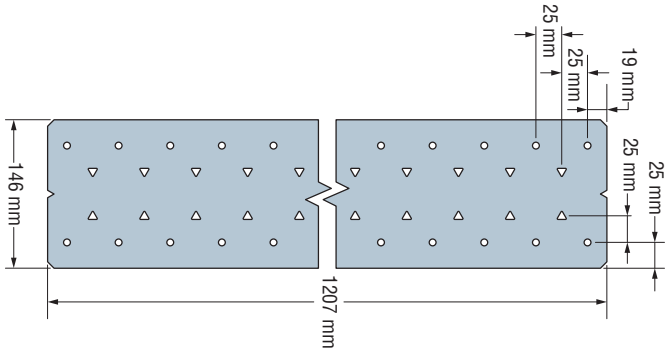
*Please see table in Technical Data Sheet or in Mass Timber Catalogue

Product Information

Model No.	Size (mm)	Box Qty	Individual Barcode	Pack Barcode	Weight ea	Carton Dim. (W x L x H) and weight
MSTC78	76 W x 1,975 L x 2mm	5	044315370908	10044315370905	2.10kg	No Packaging, 11.45kg
MDCST48	146 W x 1,207 L x 2mm	1	707392001829	No Packaging	2.47kg	No Packaging, 2.56kg



MSTC78



MDCST48

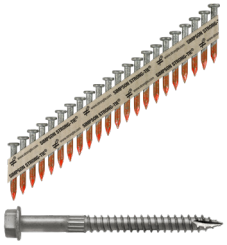
Designed and Tested

Simpson Strong-Tie® connectors have been designed and tested for use with specific types and sizes of nails or screws.
The specified fastener size, type and quantity must be installed in the correct holes on the connector to achieve published loads.

Other factors such as the fastener material and finish are also important as the use of incorrect fasteners or misinstallation can compromise the connector performance and could lead to failure. Simpson Strong-Tie has a broad range of fasteners designed to suit our range of connectors.

Compatible Fasteners

Connector	Fastener Model No.	Qty. Per Connector	Size	Box Qty	Shank/ Thread	Point	Head Type	Material & Finish
MSTC78	N10DHDGP	76	64x3.75mm	500/2500	Annular Ring	Diamond	Full Round	Hot-Dip Galvanised
MDCST48	SDS25300	36	6.4x76mm	25/150	Serrated Threads	Type-17	⅜" Hex Head	Carbon Steel Double-Barrier Coating



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