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HRS/ST/HST/HTP/LSTA/LSTI/MST/MSTA/MSTC/MSTI

Ties



Straps are designed to transfer tension loads in a wide variety of applications.

HRS — A 12-gauge strap with a nailing pattern designed for installation on the edge of 2x members. The HRS416Z installs with Simpson Strong-Tie® Strong-Drive® SDS Heavy-Duty Connector screws.

LSTA and MSTA — Designed for use on the edge of 2x members, with a nailing pattern that reduces the potential for splitting.

LSTI — Light straps that are suitable where pneumatic-nailing is necessary through diaphragm decking and wood chord open-web trusses.

MST — High-capacity strap that can be installed with either nails or bolts. Suitable for double 2x member connections or greater.

MSTC — High-capacity strap which utilizes a staggered nail pattern to help minimize wood splitting. Nail slots have been countersunk to provide a lower nail head profile.

Finish

- HST3 and HST6 — Simpson Strong-Tie® gray paint; all others — galvanized. Some products are available in stainless steel or ZMAX® coating. See Corrosion Information.

Installation

- Use all specified fasteners; see General Notes

Options

- Special sizes can be made to order; contact Simpson Strong-Tie

Codes

- MSTC and RPS meet code requirements for reinforcing cut members (16 gauge) at top plate and RPS at sill plate
- International Residential Code® — 2012/2015 R602.6.1
- International Building Code® — 2012/2015 2308.9.8
- See RPS strap ties

Related Links

- [Wood Construction Connectors Technical and Installation Notes \(/products/connectors/wood-construction-connectors/technical-notes\)](/products/connectors/wood-construction-connectors/technical-notes)
- [General Notes \(/products/connectors/wood-construction-connectors/technical-notes/general-notes\)](/products/connectors/wood-construction-connectors/technical-notes/general-notes)
- [Corrosion Information \(/products/product-use-information/corrosion-information\)](/products/product-use-information/corrosion-information)
- [Corrosion-Resistant Products \(/products/connectors/wood-construction-connectors/technical-notes/corrosion-info/corrosion-resistant-wcc\)](/products/connectors/wood-construction-connectors/technical-notes/corrosion-info/corrosion-resistant-wcc)
- [Contact Simpson Strong-Tie \(http://www2.strongtie.com/contact_us.asp\)](http://www2.strongtie.com/contact_us.asp)

Catalog Pages

- [C-C-2017 \(Wood Construction Connectors\), pages 301, 302 and 304 \(http://embed.widencdn.net/pdf/plus/ssstoolbox/aewxjpfas4/C-C-2017-p301and302and304.pdf\)](http://embed.widencdn.net/pdf/plus/ssstoolbox/aewxjpfas4/C-C-2017-p301and302and304.pdf)

Related Literature



Wood Construction Connectors Catalog

C-C-2017

Complete product and application information, as well as load tables and installation information, for more than 3,000 wood-to-wood, wood-to-concrete and wood-to-masonry connectors.

CATALOG

[\(/resources/literature/wood-construction-connectors-catalog\)](https://resources.literature/wood-construction-connectors-catalog)



Conectores Metálicos Estructurales 2013-2015

C-2013SP

Información completa de productos, de la aplicación, de las tablas de cargas y de la instalación, para conectores Simpson Strong-Tie® de madera a madera, madera a concreto y concreto a mampostería.

CATALOG

<https://embed.widencdn.net/dov2013SP.pdf?u=cjmyin>



Strong-Rod™ Systems for Multi-Storey Overturning Restraint

C-L-SRSCAN16

A Canadian Limit States Design Catalogue for Strong-Rod™ Anchor Tiedown System. Includes product information, design methods, and pre-engineered runs using shrinkage compensation and

other components.

CATALOG

(<https://embed.widencdn.net/dov/L-SRSCAN16.pdf?u=cjmyin>)

 Show 13 More

Load Tables

These products are available with additional corrosion protection (</products/connectors/wood-construction-connectors/technical-notes/corrosion-info/corrosion-resistant-wcc>). Additional products on this page may also be available with this option, check with Simpson Strong-Tie (https://www2.strongtie.com/contact_us.asp) for details.

These models are approved for installation with the Strong-Drive® SD Connector screw (/strongdrive_exteriorwoodscrews/sd_screw/p/strong-drive-sd-connector-screw).

See the load values below.

Model No.	Ga.	Dimensions (in.)		Fasteners (Total)	Allowable Tension Loads (DF/SP)	Allowable Tension Loads (SPF/HF)	
		W	L		(160)	(160)	
LSTA9	20	1¼	9	(8) 10d	740	635	
LSTA12		1¼	12	(10) 10d	925	795	
LSTA15		1¼	15	(12) 10d	1,110	950	
LSTA18		1¼	18	(14) 10d	1,235	1,110	
LSTA21		1¼	21	(16) 10d	1,235	1,235	
LSTA24		1¼	24	(18) 10d	1,235	1,235	
ST292		2⅙	9⅝	(12) 16d	1,265	1,120	
ST2122		2⅙	12⅜	(16) 16d	1,530	1,505	
ST2115		¾	16⅝	(10) 16d	660	660	
ST2215		2⅙	16⅝	(20) 16d	1,875	1,875	
LSTA30			1¼	30	(22) 10d	1,640	1,640
LSTA36			1¼	36	(24) 10d	1,640	1,640
LSTA40			2⅜	40	(20) 10d x 1¼"	2,075	2,555

			574	49	(52) 10d x 1 1/2"	2,975	2,555
			3 3/4	73	(48) 10d x 1 1/2"	4,205	3,830
			1 1/4	9	(8) 10d	750	645
SS		18	1 1/4	12	(10) 10d	940	810
			1 1/4	15	(12) 10d	1,130	970
SS			1 1/4	18	(14) 10d	1,315	1,130
			1 1/4	21	(16) 10d	1,505	1,290
SS			1 1/4	24	(18) 10d	1,640	1,455
			1 1/4	30	(22) 10d	2,050	1,820
SS			1 1/4	36	(26) 10d	2,050	2,050
			1 1/4	49	(26) 10d	2,020	2,020
			2 1/6	16 5/6	(20) 16d	2,095	1,900
			2 1/6	23 5/6	(28) 16d	2,540	2,540
			1 1/4	9	(8) 16d	885	760
		16	1 1/4	11 5/8	(10) 16d	1,105	950
			1 1/4	17 3/4	(14) 16d	1,420	1,330
			1 1/4	21 5/8	(18) 16d	1,420	1,420
			3	28 1/4	(36) 16d sinkers	3,455	2,980
			3	40 1/4	(52) 16d sinkers	4,745	4,305
			3	52 1/4	(62) 16d sinkers	4,745	4,745
			3	7	(20) 10d x 1 1/2"	1,850	1,600
			3	65 3/4	(76) 16d sinkers	5,860	5,860
		14	3	77 3/4	(76) 16d sinkers	5,860	5,860
			2 1/6	33 13/6	(40) 16d	3,845	3,845
			1 3/8	6	(6) 10d	605	525
			1 3/8	8	(10) 10d	1,010	880
			1 3/8	12	(14) 10d	1,415	1,230
			2 1/6	26	(26) 10d x 1 1/2"	2,745	2,325
		12	2 1/6	36	(36) 10d x 1 1/2"	3,800	3,220
			2 1/6	48	(48) 10d x 1 1/2"	5,065	4,290
			2 1/6	60	(60) 10d x 1 1/2"	5,080	5,080
			2 1/6	72	(72) 10d x 1 1/2"	5,080	5,080
			3 1/4	16	(16) 1/4" x 1 1/2" SDS	2,835	2,305

1. Allowable loads have been increased for wind or seismic loading with no further increase allowed; reduce where other loads govern.
2. See [Fastener Designer Information \(/products/connectors/wood-construction-connectors/technical-notes/fastener-types-and-sizes\)](#) for allowable nail substitutions and load reductions. When nailing strap over wood structural panels, use 2 1/2" long fastener, minimum.
3. Use half of the nails in each member being connected to achieve the listed loads.
4. Tension loads apply for uplift when installed vertically.
5. **NAILS:** 16d = 0.162" dia. x 3 1/2" long, 16d Sinker = 0.148" dia. x 3 1/4" long, 10d = 0.148" dia. x 3" long; 10d x 1 1/2" = 0.148" dia. x 1 1/2" long. See [other nail sizes and information \(/products/connectors/wood-construction-connectors/technical-notes/fastener-types-and-sizes\)](#).

Floor-to-Floor Clear Span Table

■ These products are available with [additional corrosion protection \(/products/connectors/wood-construction-connectors/technical-notes/corrosion-info/corrosion-resistant-wcc\)](#). Additional products on this page may also be available with this option, [check with Simpson Strong-Tie \(https://www2.strongtie.com/contact_us.asp\)](#) for details.

▀ These models are approved for installation with the [Strong-Drive® SD Connector screw \(/strongdrive_exteriorwoodscrews/sd_screw/p/strong-drive-sd-connector-screw\)](#).

See the load values below.

Model No.	Clear Span (in.)	Fasteners (Total)	Allowable Tension Loads (DF/SP)	Allowable Tension Loads (SPF/HF)
			(160)	(160)
MSTA49	18	(26) 10d	2,020	2,020
	16	(26) 10d	2,020	2,020
MSTC28	18	(12) 16d sinkers	1,155	995
	16	(16) 16d sinkers	1,540	1,325
MSTC40	24	(20) 16d sinkers	2,310	1,985
	18	(28) 16d sinkers	2,695	2,320
	16	(32) 16d sinkers	3,080	2,650
MSTC52	24	(36) 16d sinkers	3,465	2,980
	18	(44) 16d sinkers	4,235	3,645
	16	(48) 16d sinkers	4,620	3,975
MSTC66	30	(48) 16d sinkers	4,780	4,120
	24	(54) 16d sinkers	5,380	4,640
	18	(64) 16d sinkers	5,860	5,495
	16	(68) 16d sinkers	5,860	5,840
MSTC78	30	(64) 16d sinkers	5,860	5,495
	24	(72) 16d sinkers	5,860	5,860
	18	(76) 16d sinkers	5,860	5,860
MST37	24	(14) 16d	1,725	1,495
	18	(20) 16d	2,465	2,135
	16	(22) 16d	2,710	2,345
MST48	24	(26) 16d	3,215	2,780
	18	(32) 16d	3,960	3,425
	16	(34) 16d	4,205	3,640
MST60	30	(34) 16d	4,605	3,995
	24	(40) 16d	5,240	4,700
	18	(46) 16d	6,235	5,405
MST72	30	(48) 16d	6,505	5,640
	24	(54) 16d	6,730	6,345
	18	(62) 16d	6,730	6,475

See footnotes below.

Model No.	Ga.	Dimensions (in.)		Fasteners (Total)			Allowable Tension Loads (DF/SP)		Allowable Tension Loads (SPF/HF)	
		W	L	Nails	Bolts		Nails (160)	Bolts (160)	Nails (160)	Bolts (160)
					Qty.	Dia.				
MST27	12	2 1/6	27	(30) 16d	4	1/2	3,700	2,165	3,200	2,000
MST37		2 1/6	37 1/2	(42) 16d	6	1/2	5,080	3,025	4,480	2,805
MST48		2 1/6	48	(50) 16d	8	1/2	5,310	3,675	5,190	3,410
MST60	10	2 1/6	60	(68) 16d	10	1/2	6,730	4,485	6,475	4,175
MST72		2 1/6	72	(68) 16d	10	1/2	6,730	4,485	6,475	4,175
HST2	7	2 1/2	21 1/4	—	6	5/8	—	5,220	—	4,835
HST5		5	21 1/4	—	12	5/8	—	10,650	—	9,870
HST3	3	3	25 1/2	—	6	3/4	—	7,680	—	6,660
HST6		6	25 1/2	—	12	3/4	—	15,470	—	13,320

1. Allowable loads have been increased for wind or seismic loading with no further increase allowed; reduce where other loads govern.
2. Install bolts or nails as specified by Designer. Bolt and nail values may not be combined.
3. Allowable bolt loads are based on parallel-to-grain loading and these minimum member thicknesses: MST - 2 1/2"; HST2 and HST5 - 4"; HST3 and HST6 - 4 1/2.
4. Splitting may be a problem with installations on lumber smaller than 3 1/2"; either fill every nail hole with 10d x 1 1/2" nails or fill every-other hole with 16d common nails. Reduce the allowable load based upon the size and quantity of fasteners used.
5. Use half of the required nails in each member being connected to achieve the listed loads.
6. When installing strap over wood structural panel sheathing, use 2 1/2" long nail minimum.
7. Tension loads apply for uplift as well when installed vertically.
8. **NAILS:** 16d = 0.162" dia. x 3 1/2" long, 16d Sinker = 0.148" dia. x 3 1/4" long, 10dx1 1/2 = 0.148" dia. x 1 1/2" long. See [other nail sizes and information \(/products/connectors/wood-construction-connectors/technical-notes/fastener-types-and-sizes\)](#).

Load Values with Strong-Drive® SD Connector Screws





















Model No.	Fasteners (Total)	Allowable Tension Loads (DF/SP)	Allowable Tension Loads (SPF/HF)
		(160)	(160)
LSTA9	8-SD9112	1095	715
LSTA12	10-SD9112	1235	895
LSTA15	12-SD9112	1235	1075
LSTA18	14-SD9112	1235	1235
LSTA21	14-SD9112	1235	1215
LSTA24	14-SD9112	1235	1235









ST292	12-SD10112	1215	1215
ST2122	12-SD10112	1480	1325
ST2115	6-SD10112	660	660
ST2215	14-SD10112	1750	1545
LSTA30	14-SD9112	1640	1255
LSTA36	14-SD9112	1415	1255
LSTI49	16-SD9112	4205	2865
LSTI73	16-SD9112	4205	2865
MSTA9	8-SD9112	1095	715
■ MSTA12	10-SD9112	1370	895
■ MSTA15	12-SD9112	1640	1075
■ MSTA18	14-SD9112	1640	1255
■ MSTA21	14-SD9112	1640	1255
■ MSTA24	14-SD9112	1640	1255
■ MSTA30	16-SD9112	2050	1435
■ MSTA36	16-SD9112	1970	1435
MSTA49	16-SD9112	2050	1435
ST6215	16-SD10112	2010	1765
ST6224	20-SD10112	2460	2210
ST9	8-SD10112	1105	885
ST12	10-SD10112	1385	1105
ST18	12-SD10112	1420	1325
ST22	12-SD10112	1420	1325
MSTC28	36-SD9112	4735	3225


























MSTC40	46-SD9112	4735	4120
MSTC52	42-SD9112	4735	3765
■ HTP37Z	20-SD9112	2735	1790
MSTC66	44-SD9112	5850	3940
MSTC78	44-SD9112	5850	3940
ST6236	28-SD10112	3590	3090
HRS6	6-SD9112	820	540
HRS8	10-SD9112	1370	895
HRS12	14-SD9112	1915	1255
MSTI26	26-SD9112	3555	2330
MSTI36	36-SD9112	4925	3225
MSTI48	38-SD9112	5070	3405
MSTI60	38-SD9112	5070	3405
MSTI72	60-SD9112	5070	4760
■ MST27	30-SD10112	4150	3310
■ MST37	40-SD10112	5070	4415
■ MST48	52-SD10112	5310	5035
■ MST60	68-SD10112	6765	6375
MST72	70-SD10112	6765	6375





















■ These products are available with [additional corrosion protection \(/products/categories/zmax.html\)](/products/categories/zmax.html). Additional products on this page may also be available with this option, [check with Simpson Strong-Tie \(/contact_us.asp\)](/contact_us.asp) for details.


























Code Reports





















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












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














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
















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






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























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MST			




















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





















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
















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


















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

















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






















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











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


















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










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








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<p>MSTI60</p>	<p> ER-102 (http://www.iapmoes.org/Documents/ER_0102.pdf)</p> <p> ER-124 (http://www.iapmoes.org/Documents/ER_0124.pdf)</p>	<p> ESR-2105 (http://www.icc-es.org/reports/pdf_files/ICC-ES/esr-2105.pdf)</p> <p> ESR-2523  (http://www.icc-es.org/reports/pdf_files/ICC-ES/esr-2523.pdf)</p> <p> ESR-3096 (http://www.icc-es.org/reports/pdf_files/ICC-ES/ESR-3096.pdf)</p>	<p> RR25713 (ftp://coderpts/rr25713.pdf)</p> <p> RR25489 (ftp://coderpts/rr25489.pdf)</p> <p> RR25910 (ftp://coderpts/rr25910.pdf)</p>
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ST18	<p> ER-102 (http://www.iapmoes.org/Documents/ER_0102.pdf)</p> <p> ER-124 (http://www.iapmoes.org/Documents/ER_0124.pdf)</p>	<p> ESR-2105 (http://www.icc-es.org/reports/pdf_files/ICC-ES/esr-2105.pdf)</p> <p> ESR-2523  (http://www.icc-es.org/reports/pdf_files/ICC-ES/esr-2523.pdf)</p> <p> ESR-3096 (http://www.icc-es.org/reports/pdf_files/ICC-ES/ESR-3096.pdf)</p>	<p> RR25713 (ftp://coderpts/rr25713.pdf)</p> <p> RR25489 (ftp://coderpts/rr25489.pdf)</p> <p> RR25910 (ftp://coderpts/rr25910.pdf)</p>
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 ESR-2523 is an Index of many of Simpson Strong-Tie Stamped and Welded Cold-formed Steel Products for Wood or Cold-formed Steel C

Drawings

Related Products



CS/CMST
Coiled Straps

[\(/coiledstraps_specialtystraps/cs-cmst_productgroup_wcc/p/cs-cmst/](/coiledstraps_specialtystraps/cs-cmst_productgroup_wcc/p/cs-cmst/)



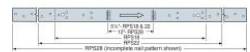
Strong-Drive® SD
CONNECTOR

Screw
[\(/strongdrive_exteriorwoodscrews/strongdrive-sd-connector-screw\)](/strongdrive_exteriorwoodscrews/strongdrive-sd-connector-screw)



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DUTY

CONNECTOR
Screw
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RPS
Strap Tie

[\(/protectandrepair_misc/](/protectandrepair_misc/)

screw)