

# HRS/ST/FHA/PS/LSTA/LSTI/MST/MSTA/MSTC/MSTI Strap Ties

Straps are load rated and provide the correct thickness and number of fasteners the specifier is looking for compared with field fabricated straps.

Install strap ties where top or bottom plates are cut, at wall intersections, and as ridge ties. Reduce the allowable load based on the size and quantity of fasteners used.

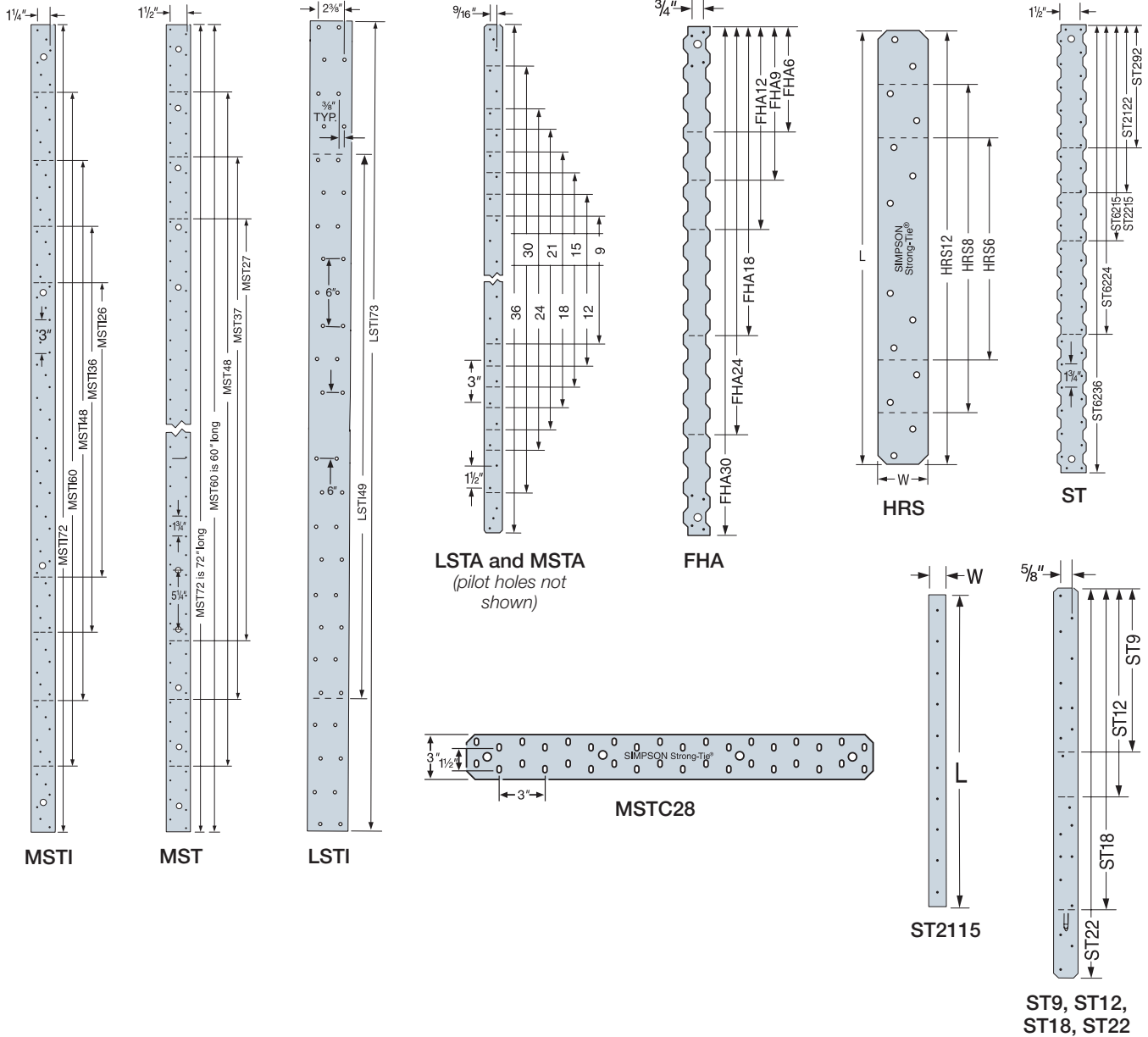
Refer to applicable code for minimum edge and end distances.

**Finish:** PS — hot-dip galvanized (HDG); all others — galvanized. Some products are available in stainless steel or ZMAX®; see Corrosion Information, pp. 18–21.

**Installation:** Use all specified fasteners; see General Notes

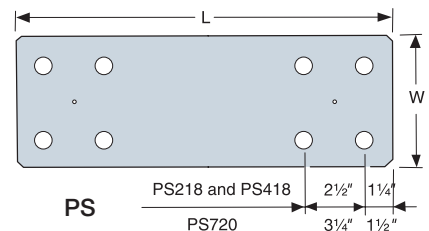
**Codes:** See p. 11 for Code Reference Key Chart

Lateral Connectors, Ties and Straps



Model No.	Connector Material Thickness mil (ga.)	Dimensions (in.)		Bolts		Code Ref.
		W	L	Qty.	Dia. (in.)	
PS218	171 (7)	2	18	4	5/8	180
PS418		4	18	4	5/8	
PS720		6 3/4	20	8	1/2	

1. PS strap design loads must be determined by the Designer for each illustration. Hole diameter in the part may be oversized to accommodate the HDG. Designer must determine if the oversize creates an unacceptable installation.



## HRS/ST/FHA/PS/LSTA/LSTI/MST/MSTA/MSTC/MSTI Strap Ties

Codes: See p. 11 for Code Reference Key Chart

Model No.	Connector Material Thick. mil (ga.)	Dimensions (in.)		Fasteners <sup>4</sup> (Total)			Allowable ASD Tension Load (lb.)			Code Ref.
				Rafter/Stud/Joist Thickness			33 mil (20 ga.)	43 mil (18 ga.)	54 mil (16 ga.)	
		W	L	33 mil (20 ga.)	43 mil (18 ga.)	54 mil (16 ga.)				
LSTA9	33 (20)	1 1/4	9	(8) #10	(8) #10	(8) #10	705	1,120	1,190	IP1, L2, FL
LSTA12		1 1/4	12	(10) #10	(10) #10	(8) #10	885	1,190	1,190	
LSTA15		1 1/4	15	(12) #10	(12) #10	(10) #10	1,060	1,190	1,190	
LSTA18		1 1/4	18	(14) #10	(12) #10	(10) #10	1,190	1,190	1,190	
LSTA21		1 1/4	21	(14) #10	(12) #10	(10) #10	1,190	1,190	1,190	
LSTA24		1 1/4	24	(14) #10	(12) #10	(10) #10	1,190	1,190	1,190	
ST292		2 1/16	9 3/16	(12) #10	(10) #10	(10) #10	1,060	1,240	1,240	
ST2122		2 1/16	12 13/16	(16) #10	(12) #10	(10) #10	1,415	1,502	1,502	
ST2115		3/4	16 5/16	(8) #10	(6) #10	(4) #10	630	630	630	
ST2215		2 1/16	16 5/16	(20) #10	(14) #10	(10) #10	1,765	1,825	1,825	
LSTA30	43 (18)	1 1/4	30	(18) #10	(12) #10	(10) #10	1,555	1,555	1,555	
LSTA36		1 1/4	36	(18) #10	(16) #10	(14) #10	1,555	1,555	1,555	
LSTI49		3 3/4	49	(32) #10	(32) #10	(20) #10	2,830	4,050	4,050	
LSTI73		3 3/4	73	(46) #10	(32) #10	(20) #10	4,050	4,050	4,050	
MSTA9		1 1/4	9	(8) #10	(8) #10	(8) #10	705	1,050	1,555	
MSTA12		1 1/4	12	(10) #10	(10) #10	(8) #10	885	1,315	1,555	
MSTA15		1 1/4	15	(12) #10	(12) #10	(10) #10	1,060	1,555	1,555	
MSTA18		1 1/4	18	(14) #10	(12) #10	(10) #10	1,235	1,555	1,555	
MSTA21		1 1/4	21	(16) #10	(12) #10	(10) #10	1,415	1,555	1,555	
MSTA24		1 1/4	24	(18) #10	(12) #10	(10) #10	1,555	1,555	1,555	
MSTA30	54 (16)	1 1/4	30	(22) #10	(16) #10	(12) #10	1,945	1,950	1,950	
MSTA36		1 1/4	36	(24) #10	(18) #10	(16) #10	1,950	1,950	1,950	
ST6215		2 1/16	16 5/16	(20) #10	(16) #10	(10) #10	1,765	2,025	2,025	
ST6224		2 1/16	23 5/16	(28) #10	(20) #10	(12) #10	2,455	2,455	2,455	
ST9		1 1/4	9	(8) #10	(8) #10	(8) #10	705	1,050	1,350	
ST12		1 1/4	11 5/8	(10) #10	(10) #10	(8) #10	885	1,315	1,350	
ST18		1 1/4	17 3/4	(14) #10	(12) #10	(12) #10	1,235	1,350	1,350	
ST22		1 1/4	21 5/8	(20) #10	(20) #10	(20) #10	1,350	1,350	1,350	
MSTC28		3	28 1/4	(36) #10	(36) #10	(30) #10	3,180	4,600	4,600	
MSTC40		3	40 1/4	(52) #10	(46) #10	(46) #10	4,595	4,600	4,600	
MSTC52	3	52 1/4	(54) #10	(42) #10	(42) #10	4,600	4,600	4,600		
MSTC66	68 (14)	3	65 3/4	(66) #10	(46) #10	(30) #10	5,795	5,795	5,795	
MSTC78		3	77 3/4	(66) #10	(46) #10	(30) #10	5,795	5,795	5,795	
ST6236		2 1/16	33 13/16	(40) #10	(30) #10	(18) #10	3,535	3,760	3,760	
HRS6	97 (12)	1 3/8	6	(6) #10	(6) #10	(6) #10	530	790	1,600	
HRS8		1 3/8	8	(10) #10	(10) #10	(10) #10	885	1,315	2,670	
HRS12		1 3/8	12	(14) #10	(14) #10	(12) #10	1,235	1,840	2,710	
FHA6		1 7/16	6 3/8	(8) #10	(8) #10	(8) #10	705	1,050	2,045	
FHA12		1 7/16	11 5/8	(8) #10	(8) #10	(8) #10	705	1,050	2,045	
FHA18		1 7/16	17 3/4	(8) #10	(8) #10	(8) #10	705	1,050	2,045	
FHA24		1 7/16	23 7/8	(8) #10	(8) #10	(8) #10	705	1,050	2,045	
FHA30		1 7/16	30	(8) #10	(8) #10	(8) #10	705	1,050	2,045	
MSTI26		2 1/16	26	(26) #10	(26) #10	(22) #10	2,300	3,420	5,025	
MSTI36		2 1/16	36	(36) #10	(36) #10	(22) #10	3,180	4,735	5,025	
MSTI48	118 (10)	2 1/16	48	(48) #10	(40) #10	(22) #10	4,240	5,025	5,025	
MSTI60		2 1/16	60	(58) #10	(40) #10	(22) #10	5,025	5,025	5,025	
MST27		2 1/16	27	(30) #10	(30) #10	(22) #10	2,650	3,945	5,025	
MST37		2 1/16	37	(42) #10	(40) #10	(34) #10	3,710	5,025	5,025	
MST48		2 1/16	48	(54) #10	(54) #10	(46) #10	4,770	5,155	5,155	
MST60		2 1/16	60	(68) #10	(68) #10	(62) #10	5,820	6,420	6,650	
MST72		2 1/16	72	(80) #10	(72) #10	(64) #10	6,650	6,650	6,650	

These products are available with additional corrosion protection. Additional products on this page may also be available with this option. Check with Simpson Strong-Tie for details.

1. Use half of the fasteners in each member being connected to achieve the listed loads.
2. Loads are based on lesser of steel capacity or fastener calculation.
3. Not all fastener holes need to be filled, as additional fastener holes are provided. Install fasteners symmetrically.
4. See pp. 138 through 171 for more information on Simpson Strong-Tie fasteners.