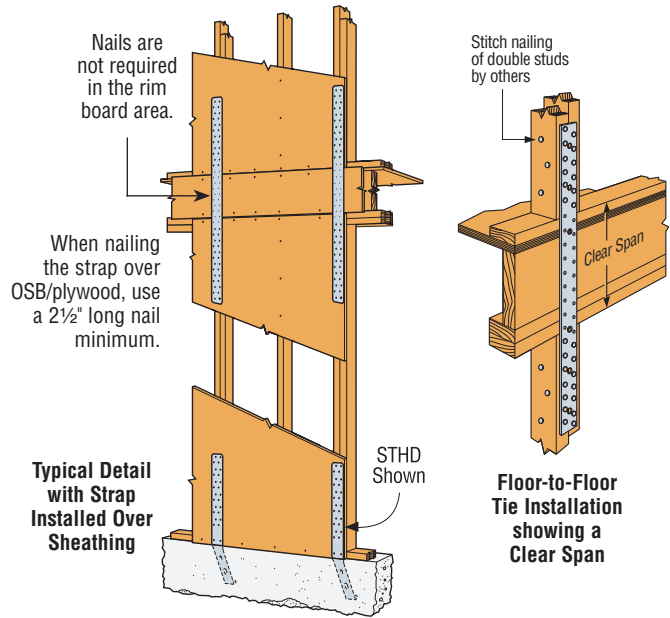


**HST/MST/MSTC/MSTA** Strap Ties

**Floor-to-Floor Clear Span Table**

Model No.	Clear Span	Fasteners (Total)	Allowable Tension Loads (DF/SP)	Allowable Tension Loads (SPF/HF)
			(160)	(160)
MSTA49	18	26-10d	2020	2020
	16	26-10d	2020	2020
MSTC28	18	12-16d sinkers	1155	995
	16	16-16d sinkers	1540	1325
MSTC40	18	28-16d sinkers	2695	2320
	16	36-16d sinkers	3465	2980
MSTC52	18	44-16d sinkers	4235	3645
	16	48-16d sinkers	4620	3975
MSTC66	18	64-16d sinkers	5860	5495
	16	68-16d sinkers	5860	5840
MSTC78	18	76-16d sinkers	5860	5860
	16	76-16d sinkers	5860	5860
MST37	18	20-16d	2465	2135
	16	22-16d	2710	2345
MST48	18	32-16d	3695	3425
	16	34-16d	3695	3640
MST60	18	46-16d	4830	4830
	16	48-16d	4830	4830
MST72	18	46-16d	4830	4830
	16	48-16d	4830	4830



**CODES:**  
See page 12 for Code Reference Key Chart.

1. Loads include a 60% load duration increase on the fasteners for wind or earthquake loading.
2. 10d commons may be substituted where 16d sinkers are specified at 100% of the table loads.
3. 16d sinkers (0.148" dia. x 3 3/4" long) or 10d commons may be substituted where 16d commons are specified at 0.84 of the table loads.
4. 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".
5. Use half of the required nails in each member being connected to achieve the listed loads.
6. Straps not installed over sheathing with 10d (0.148 dia. x 3) nails specified may be substituted with 10d x 1 1/2 (0.148 dia. x 1 1/2) with no reduction in load.
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 3/4" long, 10d x 1 1/2 = 0.148" dia. x 1 1/2" long. See page 16-17 for other nail sizes and information.

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.

Model No.	Ga	Dimensions		Fasteners (Total)		Allowable Tension Loads (DF/SP)		Allowable Tension Loads (SPF/HF)		Code Ref.
		W	L	Nails	Bolts	Nails (160)	Bolts (160)	Nails (160)	Bolts (160)	
MST27	12	2 1/16	27	30-16d	4 1/2	3700	2165	3200	2000	I4, F2
MST37		2 1/16	37 1/2	42-16d	6 1/2	5080	3025	4480	2805	
MST48		2 1/16	48	50-16d	8 1/2	5310	3675	5190	3410	
MST60	10	2 1/16	60	68-16d	10 1/2	6730	4485	6475	4175	
MST72		2 1/16	72	68-16d	10 1/2	6730	4485	6475	4175	
HST2	7	2 1/2	21 1/4	—	6 5/8	—	5220	—	4835	
HST5		5	21 1/4	—	12 5/8	—	10650	—	9870	
HST3	3	3	25 1/2	—	6 3/4	—	7680	—	6660	
		6	25 1/2	—	12 3/4	—	15470	—	13320	

Straps & Ties

**SA/HSA** Strap Connectors

A high value seismic tie for horizontal ties across intervening members.  
**FINISH:** SA36—Galvanized; HSA—Simpson Strong-Tie® gray paint  
**INSTALLATION:** • Use all specified fasteners. See General Notes.  
 • May not be suitable for floor diaphragms which protrude above beams.  
**CODES:** See page 12 for Code Reference Key Chart.

Model No.	Strap Section	L	Fasteners (Total)			Allowable Horizontal Loads		Code Ref.
			Nails	Bolts		Nails (160)	Bolts (160)	
SA36	12 ga x 2 1/16	36	22-16d	4 1/2	—	1900	1900	I15, F14
HSA32	3 ga x 3	32	—	2 3/4	—	—	2290	
HSA41	3 ga x 3	41	—	4 3/4	—	—	4520	
HSA50	3 ga x 3	50	—	6 3/4	—	—	6400	
HSA59	3 ga x 3	59	—	8 3/4	—	—	8330	
HSA68	3 ga x 3 1/2	68	—	10 3/4	—	—	10020	

1. Allowable loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
2. Allowable loads assume a restrained member of 3 1/2" min. thickness with bolts in single shear.
3. Bolt and nail values may not be combined.
4. Only SA36 can be field-bent for other intermediate beam widths.
5. **NAILS:** 16d = 0.162" dia. x 3 1/2" long. See page 16-17 for other nail sizes and information.

