CS/CMST Coiled Straps

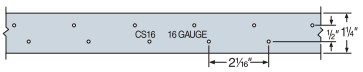
CMSTC provides countersunk fastener slots that provide a lower screw head profile. CS, CMST and CMSTC are continuous utility straps which can be cut to length on the job site. Packaged in lightweight cartons (about 40 lb.).

Finish: Galvanized. Some products available in ZMAX® coating; see Corrosion Information, pp. 18–21.

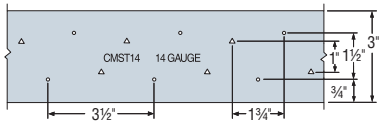
Installation:

- Use all specified fasteners; see General Notes.
- Refer to the applicable code for minimum edge and end distances.
- The table shows the maximum allowable loads and the screws required to obtain them. See footnote #1. Fewer screws may be used; reduce the allowable load by the code lateral load for each fastener subtracted from each end.

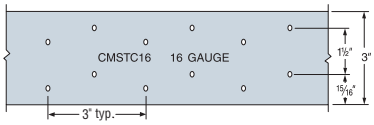
Codes: See p. 11 for Code Reference Key Chart



CS16 Hole Pattern
(all other CS straps similar)

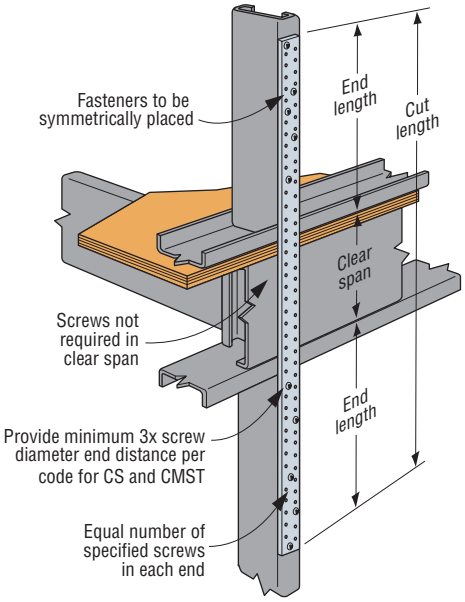


CMST14 Hole Pattern
(CMST12 similar)



CMSTC16 Hole Pattern

Gauge stamped on part for easy identification.



Typical CS Installation as a Floor-to-Floor Tie

Model No.	Total Length	Connector Material Thickness mil (ga.)	Width (in.)	Fasteners[8] (Total)			Allowable Tension Load (lb.)	Code Ref.
				Rafter/Stud/Joist Thickness			33 mil (20 ga.) 43 mil (18 ga.) 54 mil (16 ga.)	
				33 mil (20 ga.)	43 mil (18 ga.)	54 mil (16 ga.)		
CMST12[2]	40'–3"	97 (12)	3	(104) #10	(70) #10	(40) #10	9,080	IP1, L2, FL
CMST14[2]	52'–6"	68 (14)	3	(72) #10	(50) #10	(28) #10	6,365	
CMSTC16[3]	54'	54 (16)	3	(54) #10	(36) #10	(30) #10	4,600	
CS14	100'	68 (14)	1¼	(28) #10	(18) #10	(12) #10	2,305	
CS16	150'	54 (16)	1¼	(18) #10	(12) #10	(8) #10	1,550	
CS18S	100'	43 (18)	1¼	(14) #10	(10) #10	(6) #10	1,235	
CS18	200'		1¼	(14) #10	(10) #10	(6) #10	1,235	
CS20	250'	33 (20)	1¼	(12) #10	(8) #10	(6) #10	945	
CS22	300'	27 (22)	1¼	(10) #10	(6) #10	(6) #10	775	

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. For CMST straps: End Length (inches) = ½ total fasteners x ⅞" + 1" when all holes filled. Double length if only round holes filled.
3. For CMSTC16 straps: End Length (inches) = ½ total fasteners x ¾" + 1" when all holes filled. Double length if only round holes filled.
4. For CS straps: End Length (inches) = ½ total fasteners + 1".
5. Total Cut Length = End Length + Clear Span + End Length.
6. Calculate the connector value for a reduced number of screws as follows: Allowable Load = $\frac{\text{No. of Screws Used}}{\text{No. of Screws in Table}}$ x Table Load

   Example: CMSTC16 on 54 mil with 24 screws: $\frac{24 \text{ Screws (Used)}}{30 \text{ Screws (Table)}}$ x 4,600 lb. = 3,680 lb.
7. Loads are based on lesser of steel strap capacity and AISI S100 fastener calculation.
8. See pp. 138 through 171 for more information on Simpson Strong-Tie fasteners.

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