

# CS/CMST Coiled Straps

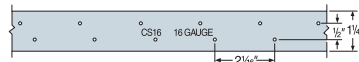
CMSTC provides countersunk fastener slots that provide a lower screw head profile. CS, CMST and CMSTC are continuous utility straps which can be cut to length on the job site. Packaged in lightweight cartons (about 40 lb.).

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

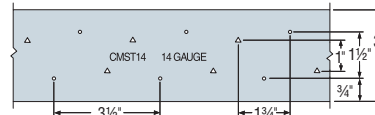
**Installation:**

- 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.

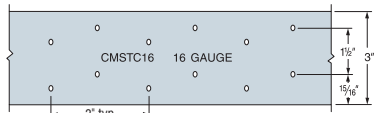
**Codes:** See p. 11 for Code Reference Key Chart



**CS16 Hole Pattern**  
(all other CS straps similar)

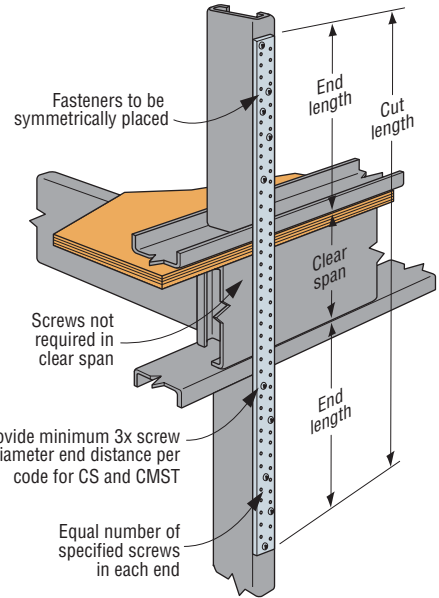


**CMST14 Hole Pattern**  
(CMST12 similar)



**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 <sup>a</sup> (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 <sup>2</sup>	40'–3"	97 (12)	3	(104) #10	(70) #10	(40) #10	9,080	IP1, L2, FL
CMST14 <sup>2</sup>	52'–6"	68 (14)	3	(72) #10	(50) #10	(28) #10	6,365	
CMSTC16 <sup>3</sup>	54'	54 (16)	3	(54) #10	(36) #10	(30) #10	4,600	
CS14	100'	68 (14)	1 ¼	(28) #10	(18) #10	(12) #10	2,305	
CS16	150'	54 (16)	1 ¼	(18) #10	(12) #10	(8) #10	1,550	
CS18S	100'	43 (18)	1 ¼	(14) #10	(10) #10	(6) #10	1,235	
CS18	200'		1 ¼	(14) #10	(10) #10	(6) #10	1,235	
CS20	250'	33 (20)	1 ¼	(12) #10	(8) #10	(6) #10	945	
CS22	300'	27 (22)	1 ¼	(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) =  $\frac{1}{2}$  total fasteners  $\times \frac{7}{8}$ " + 1" when all holes filled. Double length if only round holes filled.
3. For CMSTC16 straps: End Length (inches) =  $\frac{1}{2}$  total fasteners  $\times \frac{3}{4}$ " + 1" when all holes filled. Double length if only round holes filled.
4. For CS straps: End Length (inches) =  $\frac{1}{2}$  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 =  $\frac{\text{No. of Screws Used}}{\text{No. of Screws in Table}} \times \text{Table Load}$   
 Example: CMSTC16 on 54 mil with 24 screws:  $\frac{24 \text{ Screws (Used)}}{30 \text{ Screws (Table)}} \times 4,600 \text{ lb.} = 3,680 \text{ lb.}$

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.