CS/CMST

Coiled Straps

CMSTC provides nail slots for easy installation; it can be cut to length. CS are continuous utility straps which can be cut to length on the job site. Packaged in lightweight (about 40 lb.) cartons.

Finish: Galvanized. Some products available in ZMAX[®] coating; see Corrosion Information, pp. 15-18.

Installation: • Use all specified fasteners; see General Notes.

- Wood shrinkage after strap installation across horizontal wood members may cause strap to buckle outward.
- · Refer to the applicable code for minimum nail penetration and minimum wood edge and end distances.
- The table shows the maximum allowable loads and the nails required to obtain them. Fewer nails may be used; reduce the allowable load as shown in footnote #3.
- The cut length of the strap shall be equal to twice the "End Length" noted in the table plus the clear span dimension.
- CMST only Use every other round hole if the wood tends to split. Use round and triangle holes for comparable MST loads, providing wood does not tend to split.
- For lap slice and alternate nailing information, refer to technical bulletin T-CMST at strongtie.com.
- CS straps are available in 25' lengths, order CS14-R, CS16-R, CS18-R, CS20-R or CS22-R.

Codes: See p. 14 for Code Reference Key Chart

These products are available with additional corrosion protection. For more information, see p. 18.

These products are approved for installation with the Strong-Drive® SD Connector screw. See pp. 39-40 for more information.

	Model No.	Total L	Ga.	DF/SP		SPF/HF		Allowable	0
				Fasteners	End Length	Fasteners	End Length	Tension Loads (160)	Code Ref.
53	CMST12	40'	12	(74) 16d	33"	(84) 6d	38"	9,215	- 14, - L3, - FL
				(86) 10d	39"	(98) 10d	44"	9,215	
	CMST14	521⁄2'	14	(56) 16d	26"	(66) 16d	30"	6,490	
				(66) 10d	30"	(76) 10d	34"	6,490	
	CMSTC16	54'	16	(50) 16d sinker	20"	(58) 16d sinker	25"	4,585	
	CS14	100'	14	(26) 10d	15"	(30) 10d	16"	2,490	
				(30) 8d	16"	(36) 8d	19"	2,490	
	CS16	150'	16	(20) 10d	11"	(22) 10d	13"	1,705	
				(22) 8d	13"	(26) 8d	14"	1,705	
	CS18	200'	18	(16) 10d	9"	(18) 10d	11"	1,370	
				(18) 8d	11"	(22) 8d	12"	1,370	
	CS20	250'	20	(12) 10d	6"	(14) 10d	9"	1,030	
				(14) 8d	9"	(16) 8d	9"	1,030	
	CS22	300'	22	(10) 10d	7"	(12) 10d	7"	845	
				(12) 8d	7"	(14) 8d	8"	845	

1. Fastener quantities and end lengths are calculated using an increase for wind or seismic loading.

- 2. Use half of the required nails in each member being connected to achieve the listed loads.
- 3. Calculate the connector value for a reduced number of nails as follows:

No. of Nails Used Allowable Load = x Table Load No. of Nails in Table

Example: CMSTC16 in DF/SP with 40 nails total.

(Half of the nails in each member being connected)

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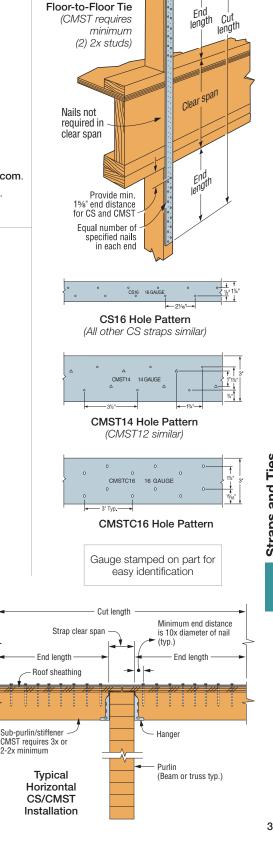
40 Nails (Used) x 4,585 lb. = 3,668 lb. Allowable Load = 50 Nails (Table)

4. Tension loads apply for uplift when installed vertically.

5. Nails: 16d = 0.162" dia. x 3½" long, 16d sinker = 0.148" dia. x 3½" long, 10d = 0.148" dia. x 3" long. See pp. 26–27 for other nail sizes and information.

Not Sure How Much Coil Strap You Need?

Simpson Strong-Tie has a web-based app, the Coil Strap Length Calculator, which can help you guickly determine the cut length of each strap and the total amount of coil strap needed for each application on a project. For more information or to access, go to strongtie.com/software.



Sheathing not

shown for clarity

Typical CS

Installation as a