

CTS218

Compression and Tension Strap

The CTS218 is designed to repair wood members such as top plates, studs and trusses, and it handles both tension and compression loads. The unique rolled edges of the strap allow it to span gaps as wide as 4½", and its 1½" width enables installation on the narrow face of 2x lumber.

- Tested specifically for top/bottom plate repair with various multi-strap configurations
- Meets the requirements of the IBC and IRC for repairing top plates that have been cut or notched to accommodate plumbing or HVAC ductwork

Material: 14 gauge

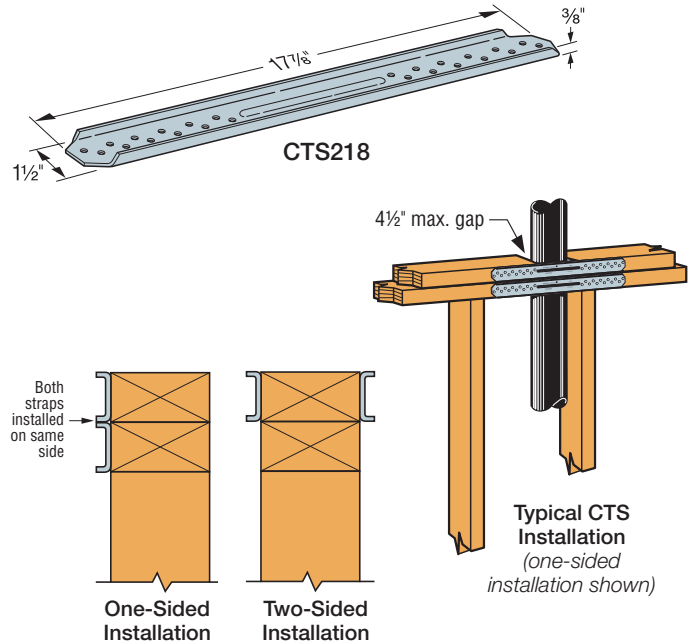
Finish: Galvanized

Installation:

- Use all specified fasteners; see General Notes.
- One-sided installations — install one or two CTS straps on the same side of the member.
- Two-sided installation — install CTS straps on opposite sides of member. For three-part installations, install two parts on one side, one part on opposite side.

Codes: See p. 12 for Code Reference Key Chart

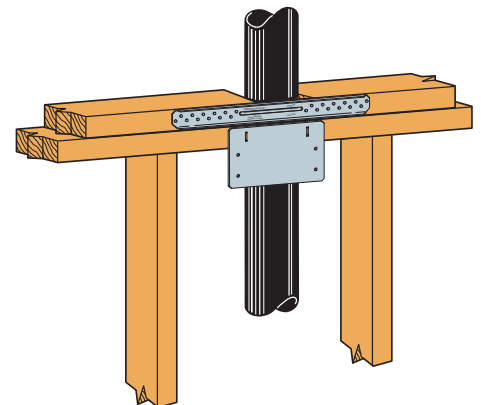
- IBC – 2012/2015/2018 2308.5.8



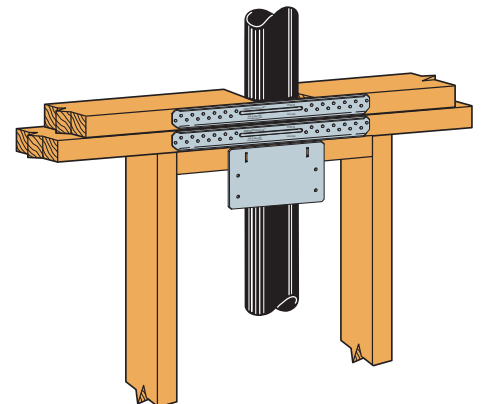
SD Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 335–337 for more information.

Model No.	Strap Qty.	Installation	Fasteners (Per Strap) (in.)	Allowable Loads DF/SP		Allowable Loads SPF/HF		Code Ref.
				Compression (160)	Tension (160)	Compression (160)	Tension (160)	
CTS218	1	One sided	(24) 0.148 x 1 ½	1,125	2,270	970	1,970	IBC, FL, LA
	2	One sided		2,250	4,535	1,935	3,900	
	2	Two sided		2,515	4,535	2,165	3,900	
	3	Two sided		3,310	6,805	2,845	5,850	
	4	Two sided		5,035	9,070	4,330	7,800	
	1	One sided	(24) SD #9 x 1 ½	1,175	2,510	1,010	2,160	
	2	One sided		2,350	5,020	2,020	4,315	
	2	Two sided		2,735	5,020	2,350	4,315	
	3	Two sided		4,130	7,530	3,550	6,475	
	4	Two sided		5,470	10,040	4,700	8,635	

1. Allowable loads have been increased for wind or earthquake loading with no further increase allowed. Reduce where other loads govern.
2. Fastener quantities are for a single strap.
3. Maximum gap between wood members is 4½".
4. **Fasteners:** Nail dimensions in the table are diameter by length. SD screws are Simpson Strong-Tie® Strong-Drive® screws. See pp. 21–22 for fastener information.



Single CTS218 and PSPN58 Installation



Double CTS218 and PSPN58 Installation