

# S/JCT and S/HJCT Steel-Joist Connectors



This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

The S/JCT and S/HJCT are unique, skewable steel-joist framing connectors that combine strength, versatility and low installed cost. The connectors can be used with CFS headers, wood headers, steel I-beams (with welds or PAF fasteners) and masonry walls. Installed cost is minimized since these products are shear rather than bearing connectors, eliminating the need for web stiffeners. The connectors also feature horizontal tabs that facilitate top flange alignment and joist support during screw installation.

**Material:** S/JCT — 68 mil (14 ga.); S/HJCT — 97 mil (12 ga.)

**Finish:** Galvanized

**Features:**

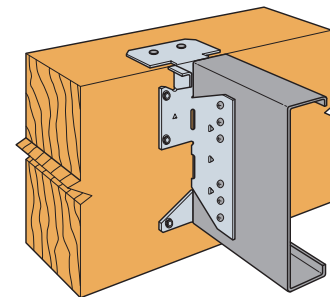
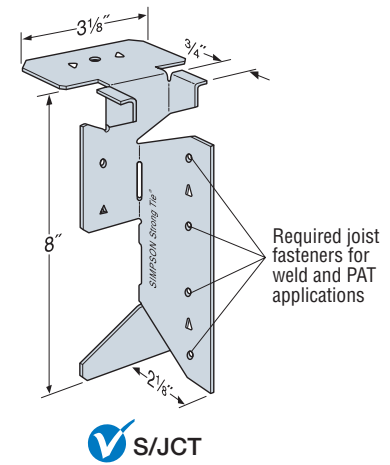
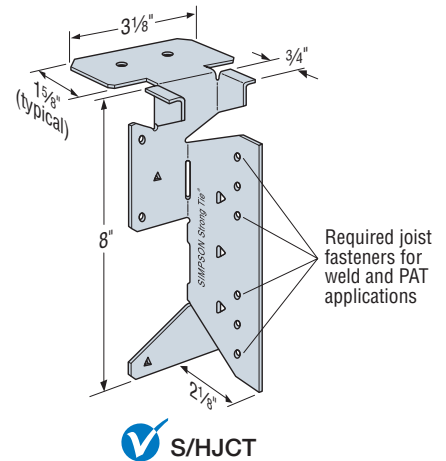
- Uni-directional: Joist can be attached from left or right
- One size fits joists 8" through 14" deep
- Optional holes for additional load capacity
- Simplicity of design
- Quick and easy installation
- Field skewable up to 45° left or right

**Installation:**

- Attach hanger with specified fasteners. Use round holes for minimum load, use round and triangle holes for maximum load.
- May be used for weld-on applications. The minimum required weld to the top flange is 1/8" x 2 1/2" fillet weld to each side of top flange. Consult the code for special considerations when welding galvanized steel.
- May be installed using PDPAT-62KP (0.157" x 5/8") powder-actuated fasteners. Steel headers with thicknesses between 1/4" and 3/4" having a minimum F<sub>y</sub> = 36 ksi. A Red (level 5) or Purple (level 6) powder load may be required to achieve specified penetration (p). See illustration on p. 203.

**Codes:** See p. 13 for Code Reference Key Chart

**Ordering Information:** The S/JCT is sold in cartons of 50. The S/HJCT is sold in kits as the S/HJCT-KT and contains five (5) connectors and (95) #14 screws.



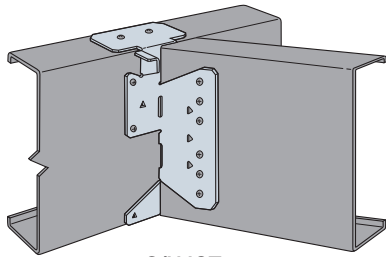
**S/HJCT Installation with a 4x10 Wood Header**

1. Allowable loads are based on a minimum of single 54 mil (16 ga.) CFS joist member. CFS joist shall be laterally braced per designer specification.
2. Allowable loads for wood header are based on 4x DF/SP minimum, for SPF/HF wood species use an adjustment factor of 0.72.
3. CFS header must be braced to prevent web buckling per designer specification and header must have full bearing of 1 1/2" flange-depth.
4. Backing in the steel beam cavity is not required behind the hanger for load listed.
5. Screws shall be installed using joist hanger holes screwing through the hanger into the joist.
6. CFS joists with up to a 0.50" gap (short cut), use an adjustment factor of 0.87 and joists with a 0.50" to 0.90" gap (short cut), use an adjustment factor of 0.75.
7. See the current *Fastening Systems* catalog at [strongtie.com](http://strongtie.com) for more information on Simpson Strong-Tie fasteners.
8. See p. 203 for more information.

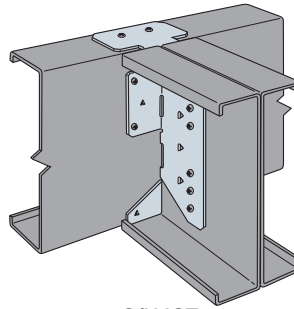
Model No.	Fasteners <sup>7</sup>			Allowable Load <sup>1</sup> (lb.)		Code Ref.	
	Top	Face	Joist	Uplift	Down		
<b>Attached to CFS Header: 54 mil (16 ga.)<sup>3</sup> — Straight Hanger</b>							
S/JCT (min.)	(1) #10	(2) #10	(4) #10	940	1,195	IBC, FL, LA	
S/JCT (max.)	(1) #10	(4) #10	(6) #10	1,435	2,105		
S/HJCT (min.)	(2) #10	(4) #14	(6) #14	1,510	2,920		
S/HJCT (max.)	(2) #10	(8) #14	(9) #14	1,670	3,855		
<b>Attached to CFS Header: 54 mil (16 ga.)<sup>3</sup> — Skewed Hanger</b>							
S/JCT (min.)	(1) #10	(2) #10	(4) #10	940	1,135	IBC, FL, LA	
S/JCT (max.)	(1) #10	(4) #10	(6) #10	940	1,185		
S/HJCT (min.)	(2) #10	(4) #14	(6) #14	1,510	2,305		
			(4) #10	145	940		
S/HJCT (min.)	1/8" x 2 1/2" fillet weld to each side of top flange		(4) #14	195	1,450	—	
S/HJCT (min.) Skew			(4) #14	195	1,235		
S/JCT (min.)	(2) 0.157" x 5/8" powder-actuated fastener <sup>8</sup>		(4) #10	145	750		
S/HJCT (min.)			(4) #14	195	1,185	—	
<b>Attached to Masonry — Straight and Skewed Hanger</b>							
S/HJCT (min.)	(2) 1/4" x 2 1/4" Titen Turbo™	(4) 1/4" x 2 1/4" Titen Turbo	(6) #14	710	1,785		
S/HJCT (min.) Skew				710	1,410		

Model No.	Fasteners <sup>7</sup>			Allowable Load <sup>1,2</sup> (lb.)		Code Ref.
	Top	Face	Joist	Uplift (160)	Down (100)	
<b>Attached to 4x DF/SP Wood Header — Straight Hanger</b>						
S/JCT (min.)	(1) 10d	(2) 10d	(4) #10	555	945	IBC, FL, LA
S/JCT (max.)	(1) 10d	(4) 10d	(6) #10	945	1,465	
S/HJCT (min.)	(2) 10d	(4) 1/4"x3" SDS	(6) #14	1,210	2,625	
S/HJCT (max.)	(2) 10d	(8) 1/4"x3" SDS	(9) #14	1,475	2,980	
<b>Attached to 4x DF/SP Wood Header — Skewed Hanger</b>						
S/JCT (min.)	(1) 10d	(2) 10d	(4) #10	390	845	IBC, FL, LA
S/JCT (max.)	(1) 10d	(4) 10d	(6) #10	775	1,300	
S/HJCT (min.)	(2) 10d	(4) 1/4" x 3" SDS	(6) #14	1,210	1,935	

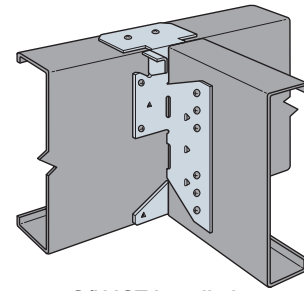
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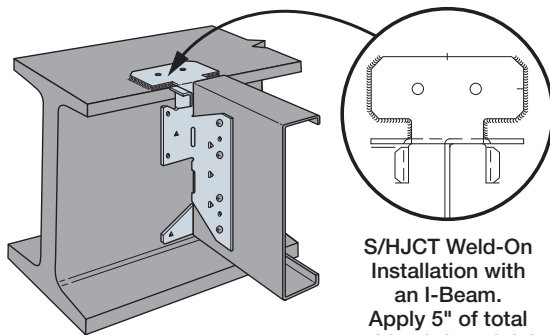
**S/HJCT**  
Skewed 45° Installation



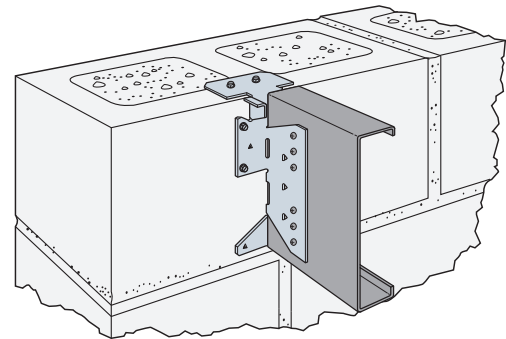
**S/HJCT**  
Double-Joist Installation



**S/HJCT Installation**  
with a CFS Steel Header

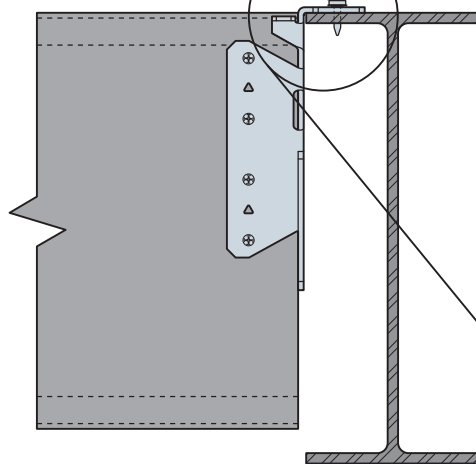


**S/HJCT Weld-On**  
Installation with  
an I-Beam.  
Apply 5" of total  
weld at left and right  
edges, as shown.

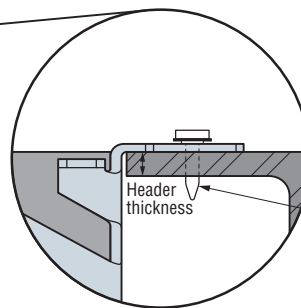


**S/HJCT Installation**  
on Masonry Header

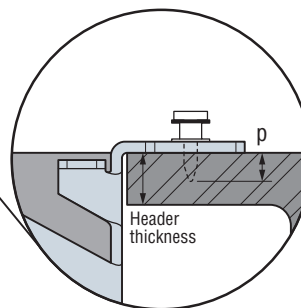
PDPAT-62KP fasteners  
installed into existing  
top-flange nail holes



**S/JCT Installed on a Steel Header**  
with Powder-Actuated Fasteners



**Steel header**  
**thickness:**  
1/4" to 1/2"  
Point of PDPAT-62KP  
must penetrate through  
the steel header



**Steel header**  
**thickness:**  
>1/2" to 3/4"  
 $p = 0.46"$  min.  
for A36 steel  
 $p = 0.36"$  min.  
for A572 or  
A992 steel