

# SFC Steel Framing 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.

SFC connectors are a low-cost, multi-use utility clips for light to moderate loading conditions in CFS stud-to-stud and stud-to-structure applications where long leg lengths are not required.

**Features:**

- Reduced number of screws reduces installation cost
- Prepunched holes reduce installation cost by eliminating predrilling
- Intuitive fastener hole positions ensure accurate clip installation in accordance with design, support a wide range of design and application requirements and provide installation flexibility
- In soft-side stud installations, SFC will not interfere with stud lips up to 3/4" long\*
- Also suitable for u-channel bridging

**Material:** SFC — 54 mil (50 ksi)

**Finish:** Galvanized (G90)

**Installation:**

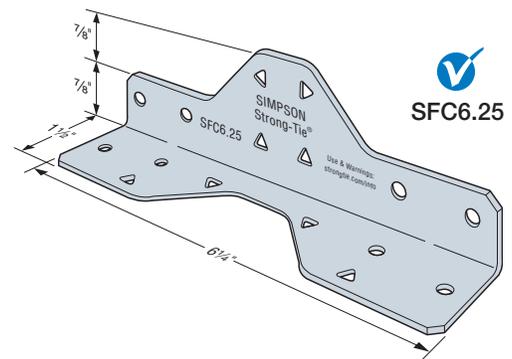
- Use all specified fasteners/anchors

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

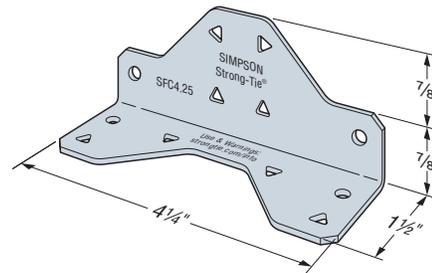
For detailed product dimensions, refer to p. 92.

## Ordering Information

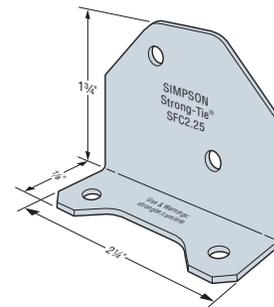
Model No.	Ordering SKU	Package Quantity
SFC2.25	SFC2.25-R300	Bucket of 300
SFC4.25	SFC4.25-R175	Bucket of 175
SFC6.25	SFC6.25-R100	Bucket of 100



**SFC6.25**



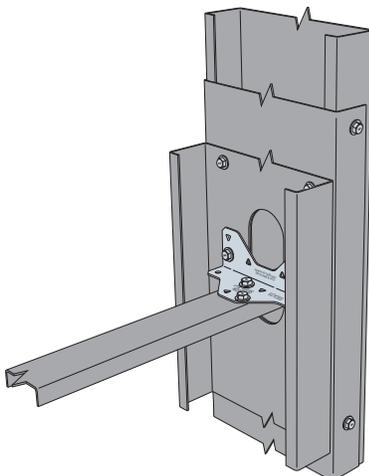
**SFC4.25**



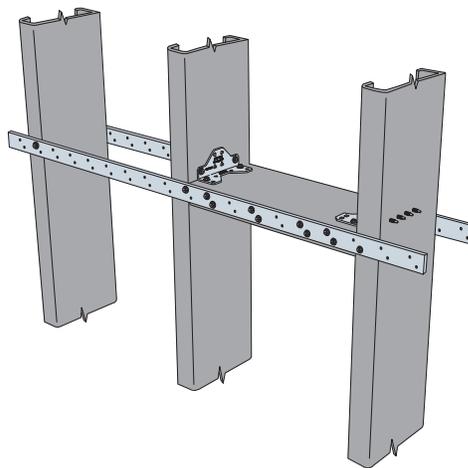
**SFC2.25**

US Patent 9,016,024

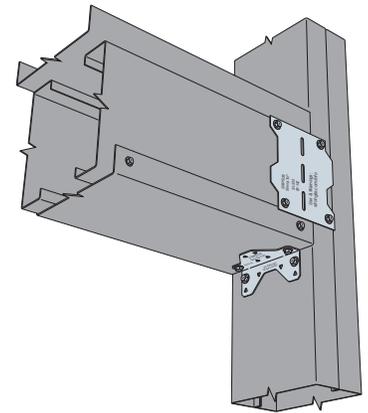
Rigid Connectors



**U-Channel to Jamb**



**Stud Blocking with CS Coiled Strap**



**Box Headers to Jambs**  
(also shown S/L angles)

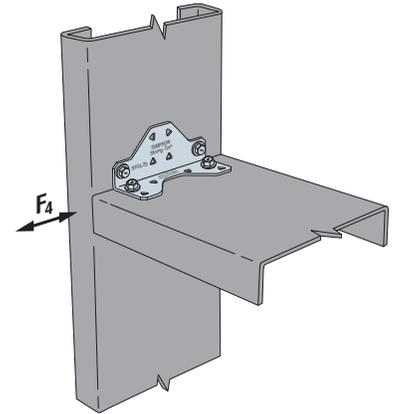
\*SFC2.25 clips will accommodate 5/8" long stiffener clips.

# SFC Steel Framing Connectors

Rigid Connectors

## SFC Connectors — Steel-to-Steel Allowable Loads

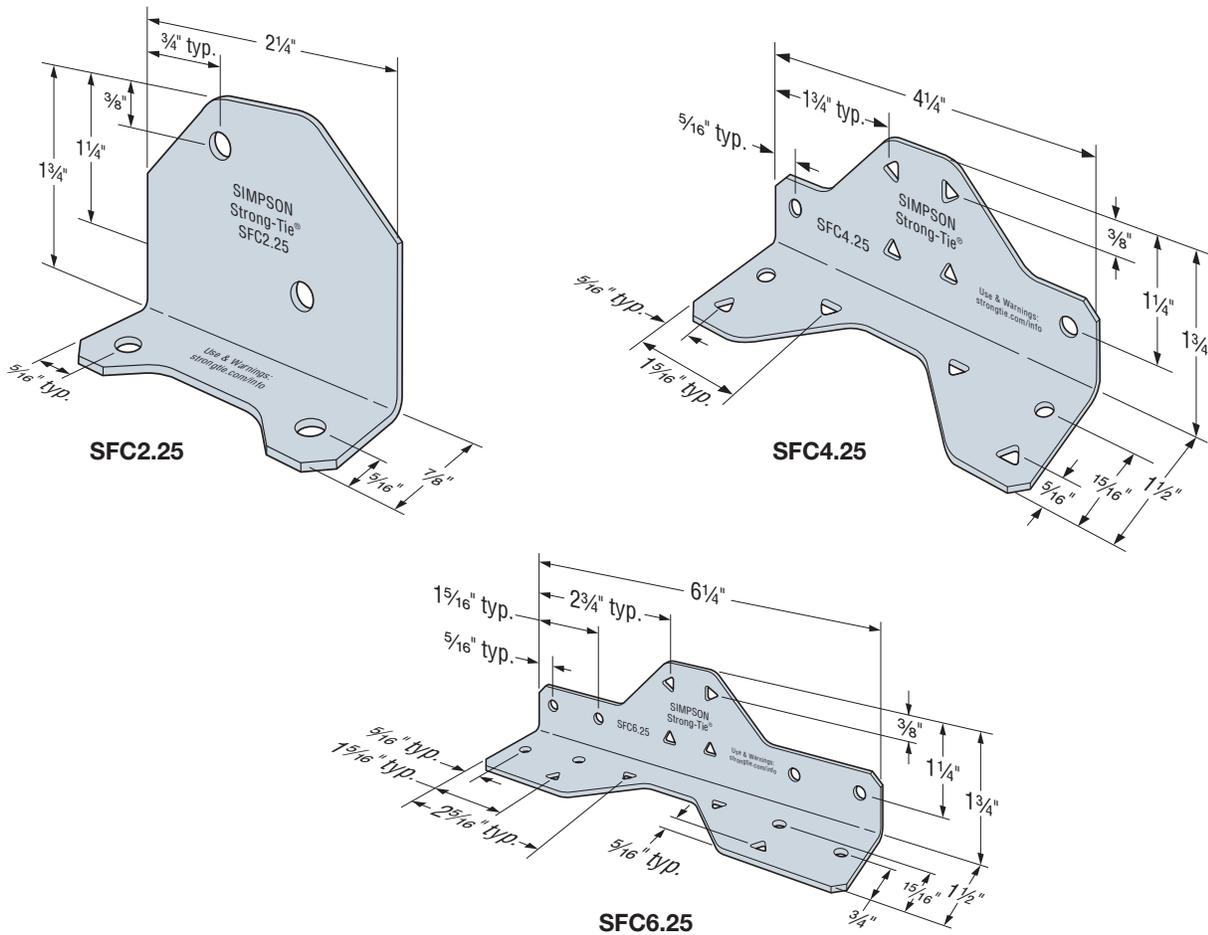
Model No.	Connector Material Thickness mil (ga.)	L (in.)	Framing Member Depth (in.)	Fasteners			Allowable F <sub>4</sub> Load (lb.)				Code Ref.
				Pattern <sup>1</sup>	Carried Member	Carrying Member	Minimum Member Thickness			Maximum Connector Load <sup>3</sup>	
							33 mil (20 ga.)	43 mil (18 ga.)	54 mil (16 ga.)		
SFC2.25	54 (16)	2¼	3½	Min.	(2) #10	(2) #10	295	355	630	630	IBC
SFC4.25	54 (16)	4¼	6	Min.	(2) #10	(2) #10	355	525	745	1,750	
				Max.	(6) #10	(6) #10	575	985	1,750		
SFC6.25	54 (16)	6¼	8	Min.	(4) #10	(4) #10	590	1,035	1,840	2,640	
				Max.	(8) #10	(8) #10	590	1,055	1,880		



Typical SFC Installation

1. Min. fastener quantity and load values — fill all round holes; Max. fastener quantity and load values — fill all round and triangular holes.
2. Allowable loads are based on bracing of the members located within 12" of the connection.
3. Maximum allowable load for connector that may not be exceeded when designing custom installations. Designer is responsible for member and fastener design.
4. See *Fastening Systems* catalog (C-F-2019) on [strongtie.com](http://strongtie.com) for more information on Simpson Strong-Tie fasteners.

## SFC Utility Clip Dimensions



## SFC/SSC Connectors – U-Channel Bridging Allowable Loads

Model No.	Connector Material Thickness mil (ga.)	Clip Length (in.)	Stud Depth (in.)	Stud Thickness mil (ga.)	Fasteners <sup>1,5</sup>		Laterally Loaded C-Stud	Axially Loaded C-Stud		Code Ref.
					Stud	Bridging	Allowable Torsional Moment <sup>2</sup> (in.-lb.)	Allowable Brace Strength <sup>2,3</sup> (lb.)	Brace Stiffness <sup>4</sup> (lb./in.)	
SFC4.25	54 (16)	4¼	6	33 (20)	(2) #10	(2) #10	275	125	860	IBC
				43 (18)	(2) #10	(2) #10	510	190	1,220	
				54 (16)	(2) #10	(2) #10	645	280	2,045	
LSSC4.25	54 (16)	4¼	6	54 (16)	(2) #10	(2) #10	1,085	180	165	
SSC4.25	68 (14)	4¼	6	54 (16)	(2) #10	(2) #10	655	280	2,045	
				68 (14)	(2) #10	(2) #10	805	335	2,305	
				97 (12)	(2) #10	(2) #10	920	660	4,230	
LSSC6.25	54 (16)	6¼	8, 10, 12	54 (16)	(2) #10	(2) #10	1,085	180	685	

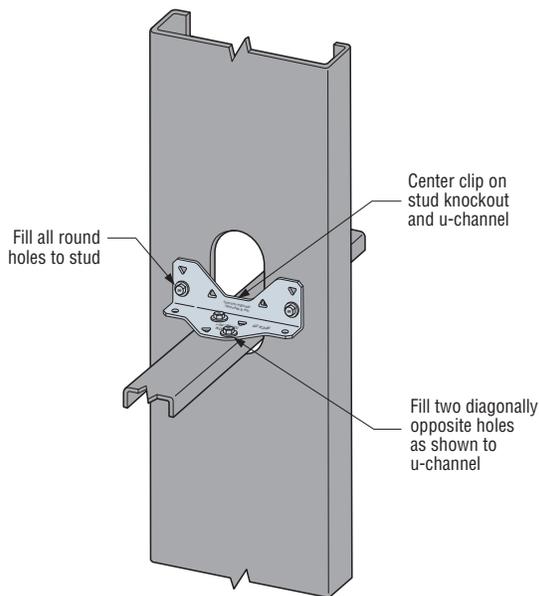
1. See illustrations for fastener placement.

2. Allowable loads are for use when utilizing Allowable Stress Design methodology. For LRFD loads, multiply the tabulated ASD values by 1.6.

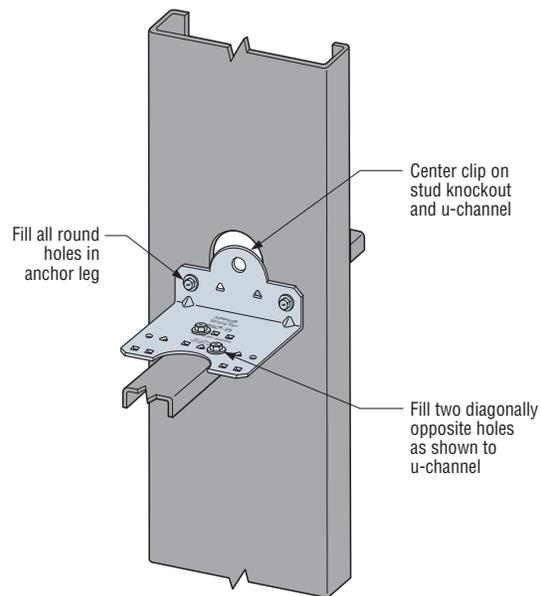
3. Allowable brace strengths are based on ultimate test load divided by a safety factor. Serviceability limit is not considered, as brace stiffness requirements are given in Section D3.3 of AISI S100. Contact Simpson Strong-Tie if nominal brace strength is required.

4. Tabulated stiffness values apply to both ASD and LRFD designs.

5. See *Fastening Systems* catalog (C-F-2019) on [strongtie.com](http://strongtie.com) for more information on Simpson Strong-Tie fasteners.



Typical SFC4.25 Installation



Typical SSC4.25 Installation