



Products	Resources
Customer Service	Where To Buy
For Homeowners	About



SSC Steel-Stud Connectors

SSC steel-stud connectors are versatile utility clips ideal for a variety of stud-to-stud and stud-to-structure applications in cold-formed steel construction. The clips have been designed to enable easy installation on the open side of studs or joists with flanges up to 3" long and return lips up to 3/4". A wide pattern of strategic fastener locations allows the SSC to accommodate a variety of traditional and custom designs.

Features:

- Pre-punched 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.
- Angle lengths accommodate either hard-side or soft-side attachment for joists and studs with return lips up to 3/4"*
- 4" leg length enables soft-side connections or studs with flanges up to 3"
- Also suitable for u-channel bridging

* SSC2.25 clips will accommodate 2" wide flange and 5/8" stiffener lips.

Material: LSSC – 54 mil (50 ksi); SSC – 68 mil (50 ksi); MSSC – 97 mil (50 ksi)

Finish: Galvanized (G90)

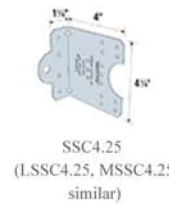
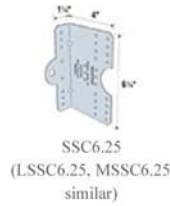
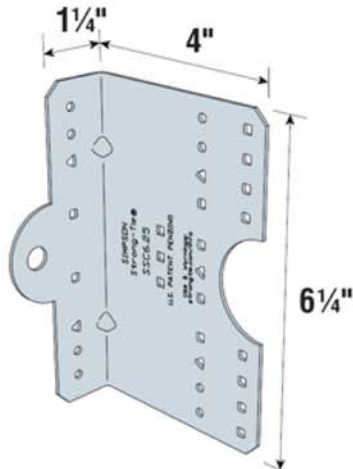
Packaging/Ordering Information:

Model Number	Ordering SKU	Package Quantity
LSSC6.25	LSSC6.25-R30	Bucket of 30
SSC6.25	SSC6.25-R30	
MSSC6.25	MSSC6.25-R30	
LSSC4.25	LSSC4.25-R50	Bucket of 50
SSC4.25	SSC4.25-R50	
MSSC4.25	MSSC4.25-R50	
SSC2.25	SSC2.25-R125	Bucket of 125
MSSC2.25	MSSC2.25-R90	Bucket of 90

Product images
 Installation images
 Allowable Loads:
 • Steel-to-Steel
 • Bypass Framing
 • Headers
 • U-Channel Bridging
 • Base of Jamb
 • Rafters
 • Kneewall
 Code Reports
 Drawings
 Related Categories
 Fliers
 Help for downloads



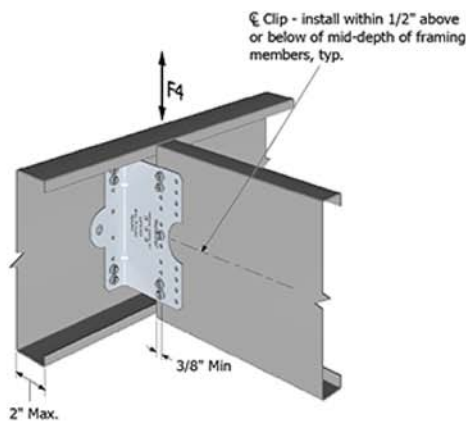
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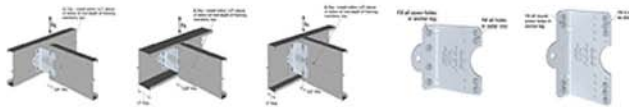
Installation Images:

▲ top

roll over images below to see larger image



Steel-to-Steel



Typical SSC Installation

SSC Installation with Supported Member Fasteners in Outer Row

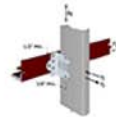
SSC Installation with Supported Member Fasteners in Inner Row

SSC4.25 Outer Fastener Pattern (LSSC4.25 and MSSC4.25 Similar)

SSC6.25 Outer Fastener Pattern (LSSC6.25 and MSSC6.25 Similar)

Bypass Framing

U-Channel Bridging



Typical SSC Installation



Typical SSC4.25 Installation

Allowable Loads:

SSC Steel Stud Connectors: Steel-to-Steel



07-14



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Model No.	Connector Material Thickness mil (ga.)	L (in.)	Framing Member Depth (in.)	Fasteners			Allowable F4 Loads (lbs.) ²			
				Pattern ²	Carried Member	Carrying Member	Minimum Member Thickness			Maximum Connector Load ⁴
							33 mil (20 ga.)	43 mil (18 ga.)	54 mil (16 ga.)	
SSC2.25	68 (14)	2¼	3%	Min.	3 - #10	2 - #10	165	225	345	690
MSSC2.25	97 (12)	2¼	3%	Min.	3 - #10	2 - #10	165	225	345	690
LSSC4.25	54 (16)	4¼	6	Min.	2 - #10	2 - #10	215	440	675	1615
				Max.	5 - #10	4 - #10	215	440	725	
				Outer	4 - #10	4 - #10	200	310	520	
SSC4.25	68 (14)	4¼	6	Min.	2 - #10	2 - #10	355	525	890	1615
				Max.	5 - #10	4 - #10	365	600	1005	
				Outer	4 - #10	4 - #10	235	330	625	
MSSC4.25	97 (12)	4¼	6	Min.	2 - #10	2 - #10	355	525	890	1615
				Max.	5 - #10	4 - #10	365	600	1005	
				Outer	4 - #10	4 - #10	235	330	625	
LSSC6.25	54 (16)	6¼	8	Min.	4 - #10	4 - #10	265	660	1190	2590
				Max.	7 - #10	6 - #10	265	660	1190	
				Outer	6 - #10	4 - #10	270	375	695	
SSC6.25	68 (14)	6¼	8	Min.	4 - #10	4 - #10	385	720	1190	2590
				Max.	7 - #10	6 - #10	385	720	1190	
				Outer	6 - #10	4 - #10	270	460	725	
MSSC6.25	97 (12)	6¼	8	Min.	4 - #10	4 - #10	385	720	1190	2590
				Max.	7 - #10	6 - #10	385	720	1365	
				Outer	6 - #10	4 - #10	270	460	725	

- For additional information, see [General Notes for Utility Clips](#).
- Min. fastener quantity and load values - fill all round holes; Max. fastener quantity and load values - fill all round and triangular holes; Outer fastener quantity and load values - see [illustrations](#) for fastener placement.
- Maximum allowable load for connector that may not be exceeded when designing custom installations. Designer is responsible for member and fastener design.

SSC Steel Stud Connectors: Bypass Framing



Model No.	Connector Material Thickness mil (ga.)	L (in.)	Fasteners ²		Allowable Loads (lbs.)											
			Anchorage ³	Stud	33 mil (20 ga.)				43 mil (18 ga.)				54 mil (16 ga.)			
					F1 ⁴	F2	F3	F4	F1 ⁴	F2	F3	F4	F1 ⁴	F2	F3	F4
SSC4.25	68 (14)	4¼	3 - #12 or 3 - PDPAT	4 - #10	40	705	705	160	40	870	1050	220	40	935	1210	220
MSSC4.25	97 (12)	4¼	3 - #12 or 3 - PDPAT	4 - #10	105	705	705	170	105	1050	1050	220	105	1385	1210	220

- For additional information, see [General Notes for Utility Clips](#).
- See [illustrations](#) for fastener placement.
- Allowable loads are based on anchors installed in minimum 3/16" thick structural steel with F_y = 36 ksi.
- Allowable loads based on in-plane loads applied at the centroid of the fasteners to the stud, with no rotational restraint of stud.

SSC Steel Stud Connectors: Headers



Model No.	Connector Material Thickness mil (ga.)	L (in.)	Jamb Stud Depth (in.)	Fasteners			Jamb & Header Thickness mil (ga.)	Allowable F3 Loads (lbs.)		
				Pattern ²	Jamb	Header		Nested Stud & Track Header	Back to Back Header ³	Allowable F4 Loads (lbs.)
LSSC4.25	54 (16)	4¼	6	Max.	5 - #10	4 - #10	33 (20)	140	455	215
							43 (18)	220	660	440
SSC4.25	68 (14)	4¼	6	Max.	5 - #10	4 - #10	54 (16)	375	1055	1005
							68 (14)	570	1055	1005
LSSC6.25	54 (16)	6¼	8	Max.	7 - #10	6 - #10	33 (20)	160	455	265
							43 (18)	250	730	660
SSC6.25	68 (14)	6¼	8	Max.	7 - #10	6 - #10	54 (16)	410	1110	1190
							68 (14)	640	1110	1190

- For additional information, see [General Notes for Utility Clips](#).
- Fill all round and triangular holes.
- Designer is responsible for checking web crippling of the header and reducing allowable loads accordingly.



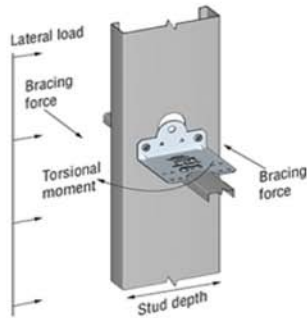
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SSC Steel Stud Connectors: U-Channel Bridging

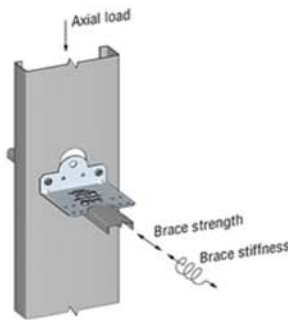


Model No.	Connector Material Thickness mil (ga.)	L (in.)	Stud Depth (in.)	Stud Thickness mil (ga.)	Fasteners ²		Laterally Loaded C-Stud	Axially Loaded C-Stud	
					Stud	Bridging	Allowable Torsional Moment ³ (in.-lbs.)	Allowable Brace Strength ^{3,4} (lbs.)	Brace Stiffness ⁵ (lbs. / in.)
SSC4.25	68 (14)	4 1/4	6	54 (16)	2 - #10	2 - #10	655	280	2045
				68 (14)	2 - #10	2 - #10	805	335	2305
				97 (12)	2 - #10	2 - #10	920	660	4230

1. For additional information, see [General Notes for Utility Clips](#).
2. See [illustrations](#) for fastener placement.
3. Allowable loads are for use when utilizing Allowable Stress Design methodology. For LRFD loads, multiply the tabulated ASD values by 1.6.
4. 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 S100-2007. [Contact Simpson Strong-Tie](#) if nominal brace strength is required.
5. Tabulated stiffness values apply to both ASD and LRFD designs.



Laterally loaded C-stud



Axially loaded C-stud

How to Use SSC U-Channel Bridging Table

The tabulated strength and stiffness values are for use with Sections D3.2.1 and D3.3 of the 2007 edition of AISI North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100-2007) as follows:

Bracing Design for Laterally Loaded C-Studs

- Step 1: Calculate required flange force for bracing using equation D3.2.1-3
- Step 2: Multiply result by stud depth to obtain torsional moment
- Step 3: Verify that tabulated allowable torsional moment exceeds torsional moment from Step 2 for the stud thickness required

Bracing Design for Axially Loaded C-Studs

- Step 1: Calculate required LRFD brace strength using equation D3.3-1
- Step 2: Divide result by 1.5 for ASD design¹
- Step 3: Calculate required brace stiffness using equation D3.3-2
- Step 4: Verify that tabulated allowable brace strength exceeds strength from Step 2 and that tabulated brace stiffness exceeds stiffness from Step 3 for the stud thickness required

1. Page III-54 of the 2008 edition of the AISI Cold-Formed Steel Design Manual states that equation D3.3-1 is applicable to LRFD design, and recommends dividing the result by 1.5 for ASD design.

SSC Steel Stud Connectors: Base of Jamb

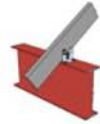


Model No.	Connector Material Thickness mil (ga.)	L (in.)	Stud Member Depth (in.)	Fasteners		Stud Thickness mil (ga.)	Allowable F4 Load (lbs.)
				Anchor Dia.	Stud Fasteners ⁴		
SSC2.25	68 (14)	2 1/4	3 3/4	%	3-#10	33 (20)	390
						43 (18)	605
						54 (16)	940
SSC4.25	68 (14)	4 1/4	6	%	5-#10	33 (20)	420
						43 (18)	685
						54 (16)	975
SSC6.25	68 (14)	6 1/4	8	%	7-#10	33 (20)	470
						43 (18)	715
						54 (16)	1020

1. For additional information, see [General Notes for Utility Clips](#).
2. Allowable loads are based on minimum 33 mil (20 ga.) track for 33 mil (20 ga.) and 43 mil (18 ga.) studs, and minimum 43 mil (18 ga.) track for 16 ga. studs, with one #10 screw into each stud flange.
3. Allowable loads assume adequate torsional bracing is provided. Bracing design is the responsibility of the Designer.



SSC Steel Stud Connectors: Rafters



Model No.	Connector Material Thickness mil (ga.)	L (in.)	Fasteners ²		Allowable Loads (lbs.)		
			Anchorage to Steel ¹	Supported Member	43 mil (18 ga.)		
					F2	F3	F4
SSC4.25	68 (14)	4 1/4	2 - #12	5 - #10	710	1075	595
			4 PDPAT	5 - #10	1020	1075	630
MSSC4.25	97 (12)	4 1/4	2 - #12	5 - #10	710	1335	595
			4 PDPAT	5 - #10	1025	1335	815

1. For additional information, see [General Notes for Utility Clips](#).
2. See [illustrations](#) for fastener placement.
3. Allowable loads are based on anchors installed in minimum 3/16" thick structural steel with $F_y = 36$ ksi.
4. Allowable loads are based on a 6" deep member. For deeper members, Designer must consider web crippling of the member and reduce loads accordingly.

SSC Steel Stud Connectors: Kneewall

See [MSSC Kneewall Connectors](#)



Code Reports (PDFs):

▼ next ▲ top

	LEGACY REPORTS						
	IAPMO UES ER	ICC-ES ESR	CITY OF LOS ANGELES	STATE OF FLORIDA	ICC-ES NER	ICC-ES ER	ICC-ES ES
LSSC							See specific model numbers for code listings.
LSSC4.25							No code listing. Please contact us for test data.
LSSC6.25							No code listing. Please contact us for test data.
MSSC							See specific model numbers for code listings.
MSSC2.25							No code listing. Please contact us for test data.
MSSC4.25							No code listing. Please contact us for test data.
MSSC6.25							No code listing. Please contact us for test data.
SSC							See specific model numbers for code listings.
SSC2.25							No code listing. Please contact us for test data.
SSC4.25							No code listing. Please contact us for test data.
SSC6.25							No code listing. Please contact us for test data.

Drawings: To download drawings, right-click or Ctrl-click on the link, then choose "Save Target As..."

▼ next ▲ top

Download the [Simpson Strong-Tie® AutoCAD® Menu](#), which allows you to insert Ortho views directly into your AutoCAD drawing.

	ORTHOGRAPHIC	PERSPECTIVE
LSSC	None for this model	None for this model
LSSC4.25	LSSC4.25 front view: DWG DXF LSSC4.25 left view: DWG DXF	LSSC4.25: DWG DXF
LSSC6.25	LSSC6.25 front view: DWG DXF LSSC6.25 left view: DWG DXF	LSSC6.25: DWG DXF
MSSC	None for this model	None for this model

07-14



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