

Strut Plate

Designed to accommodate vertical movement

Designed to accommodate vertical movement, this plate connects steel studs while preventing the transfer of vertical loads. It is ideal for conditions where one stud projects beyond another or where a stud terminates at the face of a concrete pier or column. When the attachment surface aligns with the stud web, the plate allows for direct fastening, reducing the need for added materials or framing buildup commonly required with traditional connectors.

- Vertical movement up to 2-1/2" (1-1/4" up and 1-1/4" down)
- Reduces framing buildup
- Proprietary Deflection Screws included

CLIP THICKNESS

Gauge: 16 gauge (54mils)

Design Thickness: 0.0566 inches

Gauge: 14 gauge (68mils)

Design Thickness: 0.0713 inches

Coatings: G90

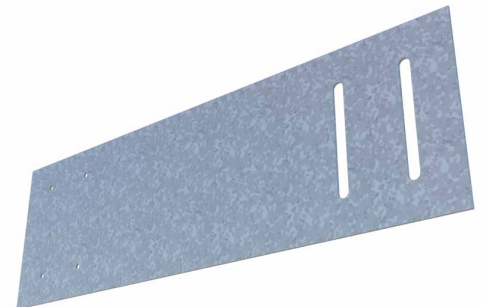
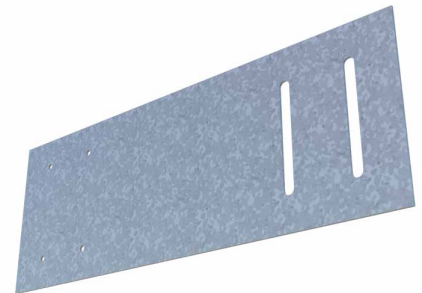
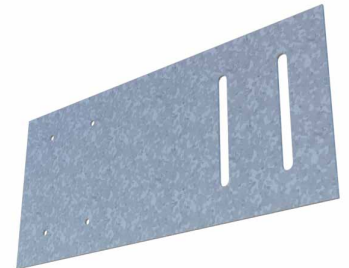
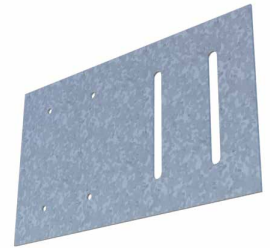
Yield Strength: 50ksi

CODE APPROVALS AND PERFORMANCE STANDARDS

AISI S100

INSTALLATION

Align the plate at the connection point so the attachment surface is flush with the stud web and oriented to allow vertical movement. Fasten the plate to the primary stud using four (4) #10 self-drilling screws in the fixed holes. Attach the adjoining stud using two (2) proprietary deflection screws through the slotted holes. Verify the connection permits vertical movement and does not transfer vertical loads.



Strut Plate (SP)

Clip Designation	Part Description	Thickness	Connector Dimensions	Connectors/ Bucket	Deflection Screws/ Bucket
SP7-54	7" Strut Plate - 16ga	0.0538" (16ga)	4" x 7"	25	55
SP7-68	7" Strut Plate - 14ga	0.0677" (14ga)	4" x 7"	25	55
SP9-54	9" Strut Plate - 16ga	0.0538" (16ga)	4" x 9"	25	55
SP9-68	9" Strut Plate - 14ga	0.0677" (14ga)	4" x 9"	25	55
SP11-54	11" Strut Plate - 16ga	0.0538" (16ga)	4" x 11"	25	55
SP11-68	11" Strut Plate - 14ga	0.0677" (14ga)	4" x 11"	25	55
SP13-54	13" Strut Plate - 16ga	0.0538" (16ga)	4" x 13"	25	55
SP13-68	13" Strut Plate - 14ga	0.0677" (14ga)	4" x 13"	25	55

68mil (14ga) STRUT PLATE DESIGN TABLE (SPXX-68)

Clip Designation	Stud/Framing	Allowable Loads (lbs)	
	Thickness mil (ga)	F2 (Tension)	F3 (Compression)
SP7-68	33 (20)	425	440
	43 (18)	585	585
	54 (16)	740	735
	68 (14)	955	1085
	98 (12)	1165	1435
SP9-68	33 (20)	425	430
	43 (18)	585	585
	54 (16)	740	735
	68 (14)	955	1045
	98 (12)	1165	1340
SP11-68	33 (20)	425	380
	43 (18)	585	510
	54 (16)	740	635
	68 (14)	955	740
	98 (12)	1165	840
SP13-68	33 (20)	425	375
	43 (18)	585	410
	54 (16)	740	450
	68 (14)	955	550
	98 (12)	1165	655

Notes:

- Listed Capacities are based on calculations and structural testing performed in accordance with AISI S100-16 (2020) w/S2-20 and ICC-ES AC261.
- Tabulated load capacities were determined from testing and the following considerations:
 - Framing connection - Direct screw shear
 - Base connection - Direct screw shear
- Allowable loads incorporates 1/8" serviceability limit, a safety factor of 3.0, and applicable material adjustment factors.
- Two (2) #14 x 3/4" Hex Washer Head (HWH) deflection screws, each with a nominal shear capacity of 2400lbs, were used to secure the clip to the framing through the provided slots.
- Four (4) #10-16 HWH fasteners, with a minimum nominal shear and tension capacity of 1400lbs and 1936lbs respectively, were used to attach clip to structure.
- The design professional is responsible for providing project drawings that detail the proper installation of the connector.

54mil (16ga) STRUT PLATE DESIGN TABLE (SPXX-54)

Clip Designation	Stud/Framing	Allowable Loads (lbs)	
	Thickness mil (ga)	F2 (Tension)	F3 (Compression)
SP7-54	33 (20)	375	355
	43 (18)	565	545
	54 (16)	740	735
	68 (14)	945	1085
	98 (12)	1135	1435
SP9-54	33 (20)	375	355
	43 (18)	565	545
	54 (16)	740	735
	68 (14)	945	855
	98 (12)	1135	950
SP11-54	33 (20)	375	355
	43 (18)	565	510
	54 (16)	740	635
	68 (14)	945	740
	98 (12)	1135	740
SP13-54	33 (20)	375	275
	43 (18)	565	405
	54 (16)	740	450
	68 (14)	945	550
	98 (12)	1135	620

Notes:

- Listed Capacities are based on calculations and structural testing performed in accordance with AISI S100-16 (2020) w/S2-20 and ICC-ES AC261.
- Tabulated load capacities were determined from testing and the following considerations:
 - Framing connection - Direct screw shear
 - Base connection - Direct screw shear
- Allowable loads incorporates 1/8" serviceability limit, a safety factor of 3.0, and applicable material adjustment factors.
- Two (2) #14 x 3/4" Hex Washer Head (HWH) deflection screws, each with a nominal shear capacity of 2400lbs, were used to secure the clip to the framing through the provided slots.
- Four (4) #10-16 HWH fasteners, with a minimum nominal shear and tension capacity of 1400lbs and 1936lbs respectively, were used to attach clip to structure.
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