

The Steel Network, Inc.

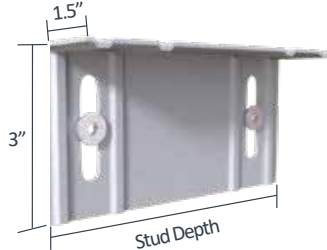
VertiClip® SLD

Interior Head of Wall

Material Composition

ASTM A1003/A1003M Structural Grade 50 (340) Type H, ST50H (ST340H): 50ksi (340MPa) minimum yield strength, 65ksi (450MPa) minimum tensile strength, 33mil minimum thickness (20 gauge, 0.0346" design thickness) with ASTM A653/A653M G60 (Z180) hot dipped galvanized coating.

The attachment of VertiClip SLD to the primary structure may be made with PAFs or screw/bolt anchors and is dependent upon the base material (steel or concrete) and the design configuration.


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US Patents #5,467,566 & #5,906,080

VertiClip SLD Allowable (Unfactored) Loads¹

VertiClip® SLD, Recommended Allowable Load (lbs): F2					
	F2 - Deflection Connection				
	SLD150	SLD250	SLD362/400	SLD600	SLD800
Screw Patterns with #8 Screws	w/1 #8 screw	w/2 #8 screws	w/2 #8 screws	w/2 #8 screws	w/2 #8 screws
18mil (25ga), 33ksi Stud	51	132	132	132	132
27mil (22ga), 33ksi Stud	51	159	242	242	242
30mil (20ga-Drywall), 33ksi Stud	51	159	322	322	322
33mil (20ga-Structural), 33ksi Stud	51	159	328	328	328
33mil (20ga), 50ksi Stud	51	159	359	405	474
43mil (18ga), 33ksi Stud	51	159	359	405	488
43mil (18ga), 50ksi Stud	51	159	359	405	664
54mil (16ga), 33ksi Stud	51	159	359	405	664
54mil (16ga), 50ksi Stud	51	159	359	405	664
Maximum Allowable Clip Load	51	159	359	405	682

Load Direction



Notes:

1. VertiClip SLD is designed to support horizontal loads, and should not be used in axial load-bearing walls.
2. Allowable loads have not been increased for wind, seismic, or other factors.
3. Strengthening ribs are present in 3-5/8" and 6" sizes.
4. #8 screws are provided with each step bushing for attachment to the stud web.
5. Guide holes for attachment to structure are 0.141" diameter for SLD362/400 and SLD600. Guideholes are not standard for other clip sizes.
6. Fasten within 3/4" of the angle heel (centerline of the 1-1/2" leg) to minimize eccentric load transfer.
7. Total vertical deflection of up to 1-1/2" (3/4" up and 3/4" down). Deflection requirements greater than 3/4" (up and down) are available
8. For LRFD strengths contact TSN technical services.

Nomenclature

VertiClip SLD is designated by type (SLD), followed by stud depth in inches multiplied by 100.

Example: 6" stud

Designate: VertiClip® SLD600

Shaft Wall

VertiClip SLD may be used in shaft wall assemblies to provide a positive attachment at the top of wall. Sizes include VertiClip SLD150, SLD250, and SLD362 for 2.5", 4", and 6" shaft wall stud depths.



UL2079 & UL®-Classified
WR Grace shaft wall
assembly HW-D-0401.



When to Use VertiClip SLD and VertiClip SL

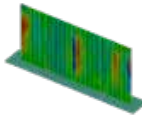
When to Use VertiClip® SLD and VertiClip® SL																			
Wind Pressure			20 psf				25 psf				30 psf				40 psf				
Deflection Limit			L/360		L/600		L/360		L/600		L/360		L/600		L/360		L/600		
Stud Spacing			16" o.c.	24" o.c.	16" o.c.	24" o.c.	16" o.c.	24" o.c.	16" o.c.	24" o.c.	16" o.c.	24" o.c.	16" o.c.	24" o.c.	12" o.c.	16" o.c.	12" o.c.	16" o.c.	
362/400 Stud Depth	Wall Height (ft)	9'	SLD	SLD	SLD	SL	SLD	SLD	SLD	SL	SLD	SLD	SL	SL*	SLD	SLD	SL	SL	
		10'	SLD	SLD	SL	SL	SLD	SL	SL	SL*	SLD	SL	SL	SL*	SLD	SL	SL	SL*	
		12'	SL	SL*	SL*	SL*	SL	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	
		15'	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	
600 Stud Depth	Wall Height (ft)	9'	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	
		10'	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	
		12'	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SL	SLD	SLD	SLD	SL	
		15'	SLD	SLD	SL	SL	SLD	SL	SL	SL	SLD	SL	SL	SL*	SLD	SL	SL	SL*	
		18'	SL	SL	SL	SL*	SL	SL	SL*	SL*	SL	SL*	SL*	SL*	SL	SL*	SL*	SL*	
800 Stud Depth	Wall Height (ft)	21'	SL	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	SL*	
		9'	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	
		10'	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	
		12'	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	
		15'	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SLD	SL	SLD	SL	SLD	SLD	SLD	SL	
		18'	SLD	SLD	SLD	SL	SLD	SL	SL	SL	SL	SLD	SL	SL	SL	SLD	SL	SL	SL
		21'	SLD	SL	SL	SL*	SL	SL	SL	SL*	SL	SL	SL*	SL*	SL	SL	SL*	SL*	SL*
24'	SL	SL	SL*	SL*	SL	SL*	SL*	SL*	SL	SL*	SL*	SL*	SL	SL*	SL*	SL*	SL*		

Table Notes:

- SLD considered for use on 43 mil or thinner sections
- A load factor of 0.7 is used for deflection determination
- SL* means a single standard stud will not work. A wider flange wall stud (2" or 2.5" flange) is needed
- All connections can be made with use of 2 screws



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assembly HW-D-0401.



VertiClip SLD Series
Blast and Seismic Design Data
www.steelnetwork.com



VertiClip SLD600
ICC-ESR-2049
www.icc-es.org



Meets criteria for New
York MEA 326-06-M

** For more information or to review a copy of each of these reports, please visit our website at
<http://www.steelnetwork.com/light-steel-framing-design-resources>