VertiClip® SL

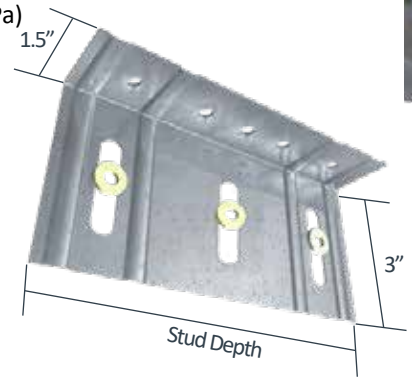
Exterior Head of Wall

The Steel Network, Inc.
www.steelnetwork.com
1-888-474-4876

Material Composition

ASTM A1003/A1003M Structural Grade 50 (340) Type H, ST50H (ST340H): 50ksi (340MPa) minimum yield strength, 65ksi (450MPa) minimum tensile strength, 68mil minimum thickness (14 gauge, 0.0713" design thickness) with ASTM A653/A653M G90 (Z275) hot dipped galvanized coating.

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



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

VertiClip SL Allowable (Unfactored) Loads[1]

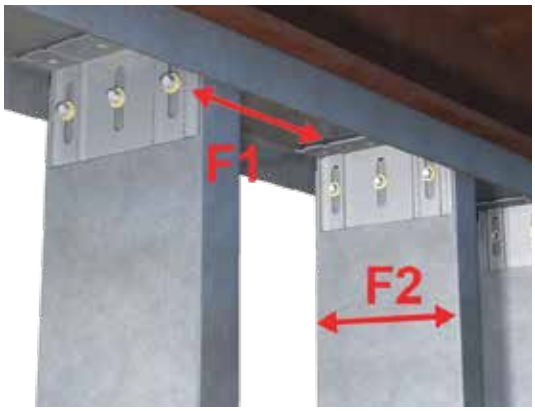
VertiClip® SL, Recommended Allowable Load (lbs): F1										
	F1- Load Direction									
	SL362	SL400	SL600		SL800		SL1000		SL1200	
Screw Patterns with #12 Screws	w/2 #12 screws	w/2 #12 screws	w/2 #12 screws	w/3 #12 screws	w/2 #12 screws	w/3 #12 screws	w/2 #12 screws	w/3 #12 screws	w/2 #12 screws	w/3 #12 screws
33mil (20ga), 33ksi Stud	190	190	190	285	190	285	190	285	190	285
33mil (20ga), 50ksi Stud	248	199	276	368	276	362	276	414	276	382
43mil (18ga), 33ksi Stud	248	199	248	368	248	362	248	372	248	372
43mil (18ga), 50ksi Stud	248	199	358	368	358	362	358	415	358	382
54mil (16ga), 33ksi Stud	248	199	312	368	312	362	312	415	312	382
54mil (16ga), 50ksi Stud	248	199	368	368	362	362	415	415	382	382
68mil (14ga), 50ksi Stud	248	199	368	368	362	362	415	415	382	382
97mil (12ga), 50ksi Stud	248	199	368	368	362	362	415	415	382	382
Maximum Allowable Clip Load	248	199	368		362		415		382	

VertiClip® SL, Recommended Allowable Load (lbs): F2										
	SL362	SL400	SL600		SL800		SL1000		SL1200	
Screw Patterns with #12 Screws	w/2 #12 screws	w/2 #12 screws	w/2 #12 screws	w/3 #12 screws	w/2 #12 screws	w/3 #12 screws	w/2 #12 screws	w/3 #12 screws	w/2 #12 screws	w/3 #12 screws
33mil (20ga), 33ksi Stud	376	376	376	564	376	564	376	564	376	564
33mil (20ga), 50ksi Stud	544	544	544	816	544	816	544	816	544	816
43mil (18ga), 33ksi Stud	560	560	560	840	560	840	560	840	560	840
43mil (18ga), 50ksi Stud	790	810	810	1,215	810	1,215	810	1,215	810	1,215
54mil (16ga), 33ksi Stud	790	788	788	1,182	788	1,182	788	1,182	788	1,182
54mil (16ga), 50ksi Stud	790	1,136	1,138	1,680	1,138	1,707	1,138	1,577	1,138	1,707
68mil (14ga), 50ksi Stud	790	1,136	1,434	1,680	1,434	1,870	1,434	1,577	1,434	1,791
97mil (12ga), 50ksi Stud	790	1,136	1,434	1,680	1,434	1,870	1,434	1,577	1,434	1,791
Maximum Allowable Clip Load	790	1,136	1,680		1,870		1,577		1,791	

Notes:

1. VertiClip SL 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. #12 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 SL362/400 and SL600. 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. Allowable load tables incorporate eccentric loading of fasteners. Values with welded connection may increase.
9. For LRFD strengths contact TSN technical services.

Load Direction

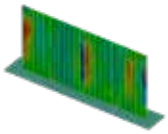


Nomenclature

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

Example: *6" stud*
Designate: *VertiClip® SL600*

VertiClip SL362, SL600 & SL800
ICC-ESR-2049
www.icc-es.org



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

*** 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*