

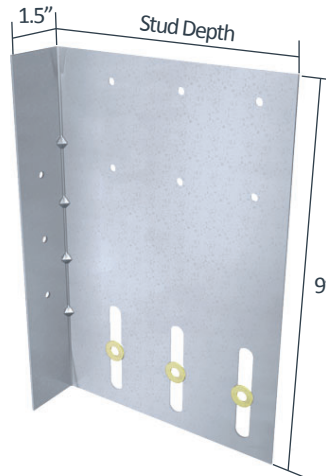
VertiClip® Splice

Multi-Stud Bypass

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 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 Patent # 5,906,080

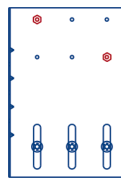
VertiClip Splice Allowable Loads

VertiClip® Splice, Recommended Allowable Load (lbs): F2 & F3											
Screw Patterns with #12 Screws	F2 Load Direction					F3 Load Direction					
	Splice600 & Splice800					Splice600			Splice600		
	Quantity of Screws Rigid / Quantity of Screws Deflection					Quantity of Screws Rigid			Quantity of Screws Rigid		
	2 screws / 2 screws	4 screws / 2 screws	4 screws / 3 screws	6 screws / 2 screws	6 screws / 3 screws	2 screws	4 screws	6 screws	2 screws	4 screws	6 screws
33mil (20ga), 33ksi stud	752	1,040	1,228	1,040	1,228	216	432	562	171	340	427
33mil (20ga), 50ksi stud	1,088	1,208	1,328	1,208	1,328	313	626	813	248	492	617
43mil (18ga), 33ksi stud	1,120	1,224	1,328	1,224	1,328	322	644	837	255	507	636
43mil (18ga), 50ksi stud	1,328	1,328	1,328	1,328	1,328	466	932	1,211	369	733	919
54mil (16ga), 33ksi stud	1,328	1,328	1,328	1,328	1,328	455	911	1,184	359	713	894
54mil (16ga), 50ksi stud	1,328	1,328	1,328	1,328	1,328	654	1,309	1,701	518	1,030	1,292
68mil (14ga), 50ksi stud	1,328	1,328	1,328	1,328	1,328	894	1,787	2,323	707	1,406	1,764
97mil (12ga), 50ksi stud	1,328	1,328	1,328	1,328	1,328	894	1,787	2,323	707	1,406	1,764
Max Allowable Clip Load	1,328					2,432			2,272		

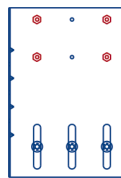
Notes:

- Fasten with 3/4" from the angle heel centerline of the 1 1/2" leg.
- Total vertical deflection of up to 2" (1" up and 1" down). Deflection requirements greater than 1" up and down are available.
- Allowable loads have not been increased for wind, seismic, or other factors.
- Torsional effects are considered on the screw group for F2 and F3 allowable loads. It is assumed that half of the torsional moment is taken by the connection to the structure and half is taken by the connection to the studs.
- Loads listed reflect force in a single direction. When multiple loads react on the connection, it is the responsibility of the designer to check the interaction of forces.

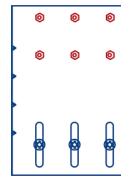
Screw Patterns



2 Screw Rigid Pattern



4 Screw Rigid Pattern



6 Screw Rigid Pattern

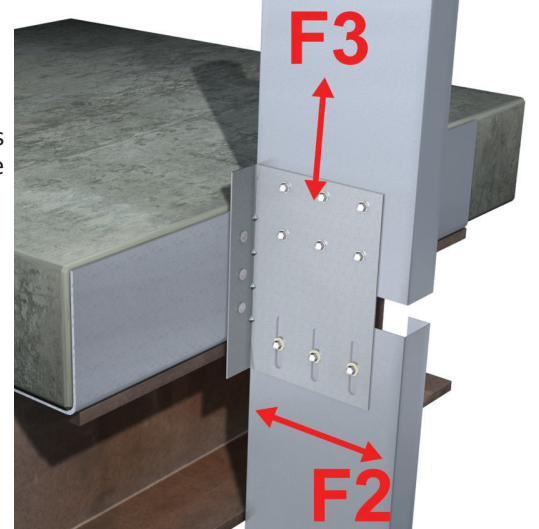
Nomenclature

VertiClip Splice is designated by multiplying stud depth by 100.

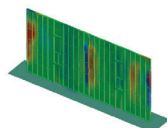
Example: 6" stud.

Designate: VertiClip® Splice600

Load Direction



* Clip shown is a left version of VertiClip Splice. Right side versions can be made as a custom part.



VertiClip Splice Series
 Blast and Seismic Design Data
 www.steelnetwork.com**

** For more information or to review a copy of this report, please visit our website at <http://www.steelnetwork.com/Site/TechnicalData>