

The Steel Network, Inc.

VertiClip® Splice

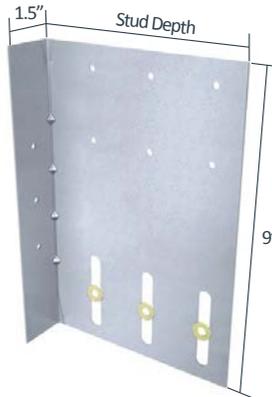
Multi-Stud Bypass

The Steel Network, Inc. 
 www.steelnetwork.com
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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

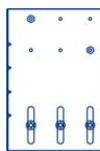
VertiClip Splice Allowable Loads

VertiClip® Splice, Recommended Allowable Load (lbs): F2 & F3												
Stud		F2 Load Direction					F3 Load Direction					
		Splice600 & Splice800					Splice600			Splice800 (up to 2" offset for 6" Studs)		
Thickness Mils (ga)	Yield Strength (ksi)	Qty #12 screws Upper Half (Listed 1st) / Qty #12 screws Lower Half (Listed 2nd)					#12 Screws in Upper Half			#12 Screws in Upper Half		
		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
33 (20)	33	754	1,041	1,229	1,041	1,229	216	431	562	171	341	428
33 (20)	50	1,089	1,208	1,328	1,208	1,328	313	623	813	248	493	618
43 (18)	33	1,122	1,225	1,328	1,225	1,328	322	642	837	255	508	637
43 (18)	50	1,328	1,328	1,328	1,328	1,328	465	928	1,209	369	733	920
54 (16)	33	1,328	1,328	1,328	1,328	1,328	453	903	1,177	259	714	895
54 (16)	50	1,328	1,328	1,328	1,328	1,328	654	1,304	1,700	518	1,031	1,293
68 (14)	50	1,328	1,328	1,328	1,328	1,328	925	1,844	2,404	733	1,457	1,828
97 (12)	50	1,328	1,328	1,328	1,328	1,328	976	1,944	2,432	773	1,537	1,927
Maximum Allowable Clip Load		1,328					2,432			2,272		

Notes:

- Fasten within 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 screw group for F2 & 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 stud.
- 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.

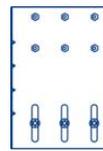
Screw Patterns



2 Screw Pattern



4 Screw Pattern



6 Screw Pattern

Nomenclature

VertiClip Splice is designated by multiplying stud depth by 100.

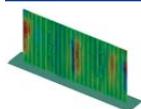
Example: 6" stud.

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**

