

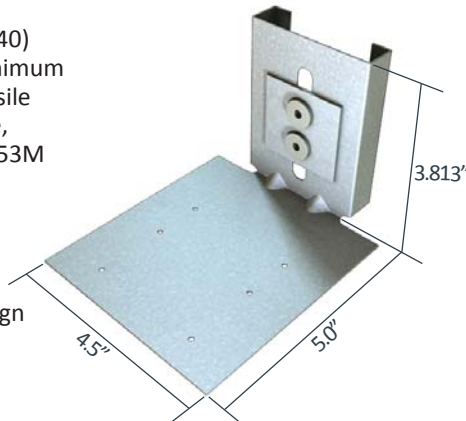
# VertiClip® SLF

Bypass Top of Slab

### Material Composition

ASTM A1003/A1003M Structural Grade 50 (340) Type H, ST50H (ST340H): 50ksi (340 MPa) minimum yield strength, 65ksi (450 MPa) minimum tensile strength, 68mil minimum thickness (14 gauge, 0.0713" design thickness) with ASTM A653/653M 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 # 8,511,032

### VertiClip SLF Allowable (Unfactored) Loads<sup>1</sup>

VertiClip® SLF, Recommended Allowable Load (lbs): F2		
Stud		w/2 #12 screws
Thickness Mils (ga)	Yield Strength (ksi)	
43 (18)	33	281
43 (18)	50	326
54 (16)	50	465
68 (14) and up	50	632
Maximum Allowable Clip Load		632

### Notes:

- Stud web crippling should be checked. Use 3½" bearing length and "Interior Reaction – one Flange", Condition 2, for the web crippling calculations except at end of stud use "End Reaction – one Flange", Condition 1.
- Align rows of wall bridging so that one row of bridging falls within 12" from VertiClip SLF **OR** use one flat strap bracing on outer flange of studs to resist torsional effects.
- Allowable loads have not been increased for wind, seismic, or other factors.
- #12 screws are provided with each Step Bushing.
- VertiClip SLF allows up to 1½" of vertical deflection (¾" up and ¾" down)
- <sup>1</sup> For LRFD Design Strengths refer to ICC-ESR-1903.

### Load Direction



### Nomenclature

VertiClip SLF is available in one size for all stud depths with 1<sup>5</sup>/<sub>8</sub>" flanges and is designated *VertiClip® SLF162*

### Example Details



VertiClip SLF used with TSN's BridgeBar® & BridgeClip® installed within 12" from the clip.



VertiClip SLF used with one flat strap bracing on the outer flange of studs to resist torsional effects.