

## PRODUCT APPLICATION

The VertiClip® SLS slide clip connects exterior curtain wall studs, bypassing the building's structural frame, while allowing for a vertical deflection of the structure up to 1½" (¾" up and ¾" down). VertiClip's unique design provides both an anti-friction and anti-seizure connection between the clip and the stud web surface thereby preventing a transfer of vertical forces into curtain wall framing, which is not engineered to support axial loads. Allowable loads are based on use of two #12 screws for attachment to stud (provided by TSN).

## MATERIAL COMPOSITION

ASTM A653/A653M, Grade 50 (340), 50ksi (340 MPa) minimum yield strength, 65ksi (450 MPa) minimum tensile strength, G-90 (Z275) hot-dipped galvanized coating. Material thickness = 68mil (14 gauge, 0.0713" design thickness).

The attachment of VertiClip to the primary structure may be made with a PAF or weld and is dependent upon the base material (steel or concrete) and the design configuration.

**Allowable load tables incorporate eccentric loading of fasteners. Values with welded connection may increase.**

Note:

- ◆ Fasten within ¾" from the angle heel (centerline of the 1½" leg) to minimize eccentric load transfer.
- ◆ Minimum 3" of SLS required for attachment to structure to steel and 5.5" min. with concrete.
- ◆ Deflection requirements greater than ¾" up and down are available.

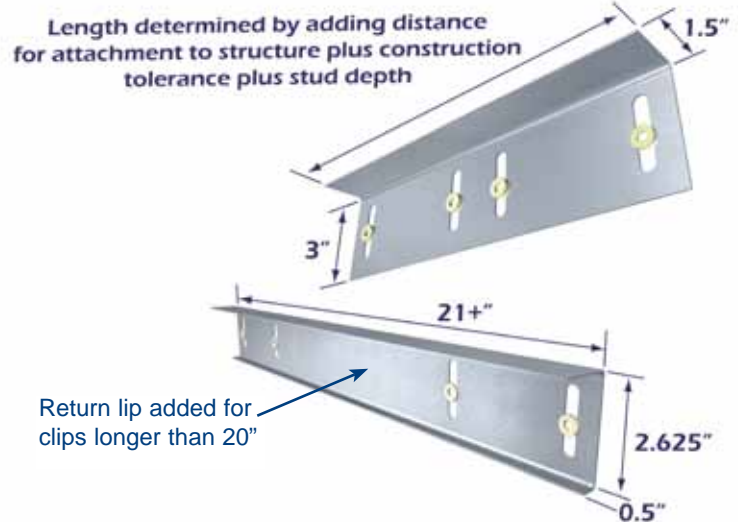
VertiClip SLS series is designed to support horizontal loads and should not be used in axial-load-bearing wall construction.



An ICC-ES Evaluation Report for VertiClip SLS600-12 is available. Refer to ICC-ESR-1903 at [www.icc-es.org](http://www.icc-es.org) or at [www.steelnetwork.com](http://www.steelnetwork.com).



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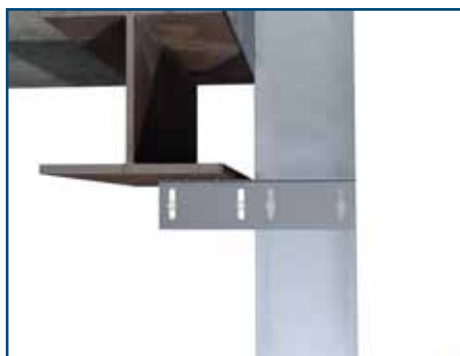


Return lip added for clips longer than 20"

## VERTICLIP SLS INSTALLATION



Attach SLS to structure with engineered attachment. Allow recommended minimum clip area for attachment.



Align studs to SLS for plumb wall assembly.



Fasten SLS to wall stud with provided screws through Step Bushings.

## QUALITY FEATURES

- ◆ Provides a **positive, load-rated, mechanical attachment to web of stud**
- ◆ **Eliminates friction-based assemblies**
- ◆ Utilizes only **mill-certified, 50ksi steel**
- ◆ **Eliminates untested “scabs” or shims**
- ◆ Load rated **screws provided**
- ◆ **Step Bushings pre-installed** for accurate placement
- ◆ Meets all building code criteria
- ◆ **Adaptable for multiple configurations**

## VERTICLIP SLS NOMENCLATURE

VertiClip® SLS is designated by stud depth and clip length required. Clip length includes a minimum of 3" (for steel, 5.5" for concrete) of clip material for attachment to structure added to stud depth, plus the distance of the stud from the structure.

Example, 6" stud, 6" tolerance, 3" to structure:

Designate: VertiClip SLS600-15

## EXAMPLE DETAILS



## ALLOWABLE (UNFACTORED) LOADS<sup>1</sup>

VertiClip Series	Stud Thickness Mils (ga)	Fy (yield) Stud (ksi)	F2 w/2 screws (kips)	F2 w/3 screws (kips)
SLS (Clip is 14ga, 68mils)	33 (20)	33	0.377	0.565
	33 (20)	50	0.544	0.817
	43 (18)	33	0.561	0.841
	43 (18)	50	0.810	1.215
	54 (16)	33	0.789	1.183
	54 (16)	50	1.139	1.709
	68 (14)	50	1.610	2.070
	97 (12)	50	1.698	2.070

- ◆ Allowable loads have not been increased for wind, seismic, or other factors.
- ◆ Two #12 screws are provided with each VertiClip SLS.
- ◆ If loads justify use of a third or fourth screw, TSN will provide the required number of slots, screws, and step bushings with each clip.

<sup>1</sup> For LRFD Design Strengths refer to ICC-ESR-1903 (p23).

## LABOR BENEFITS

- ◆ **Align wall studs quickly and easily** by accounting for construction tolerances
- ◆ **No “scabs” or shims**
- ◆ **Lightweight assembly**
- ◆ Eliminates bridging or strapping **within 12” of connection**

## QUANTITY / ORDER INFORMATION

VertiClip Designation	Stud Depth	Clip Length
SLS362/400-9*	3.625"	9"
SLS362/400-12*	3.625"	12"
SLS600-12	6"	12"
SLS600-15	6"	15"
SLS600-18	6"	18"
SLS600-20	6"	20"
SLS800-12	8"	12"
SLS800-15	8"	15"
SLS800-18	8"	18"
SLS800-20	8"	20"

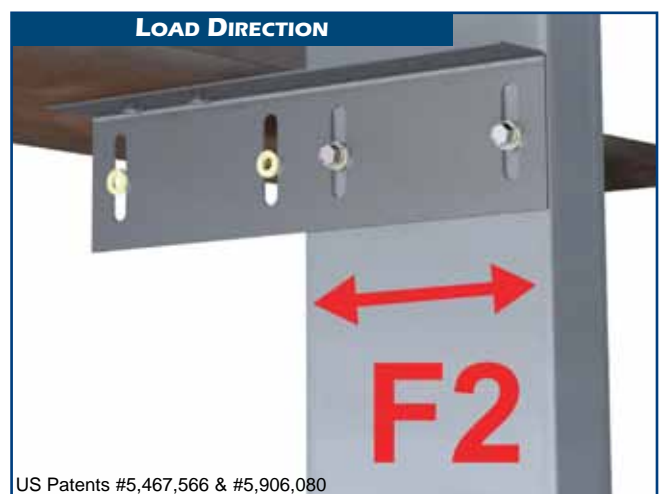
\* Use with either 3 5/8" or 4" studs.

Designation	Qty/Box	Lbs/Box	Pcs/Skid	Lbs/Skid
SLS362-9*	50	45	2250	2025
SLS362-12*	50	60	2250	2700
SLS600-12	50	60	2250	2700
SLS600-15	50	70	1600	2240
SLS600-18	25	40	1500	2400
SLS600-20	25	48	1500	2880
SLS800-12	50	60	2250	2700
SLS800-15	50	70	1600	2240
SLS800-18	25	40	1500	2400
SLS800-20	25	48	1500	2880

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