

FastClip™ Slide Clip (FCSC)

Curtain Wall/Bypass

Vertical building movement up to 3"

ClarkDietrich FCSC deflection clips are used to attach exterior curtain wall studs to the building structure and provide for vertical building movement independent of the cold-formed steel framing. A ClarkDietrich FastClip™ deflection clip installs quickly with screws or powder-actuated fasteners, and provides adjustable standoff to ensure a plumb wall plane. FastClip deflection screws are provided with each clip to ensure friction-free sliding. Each clip is also embossed with fastening patterns to ensure accurate placement of fasteners.

ALTERNATIVE PRODUCTS

Fast Strut™

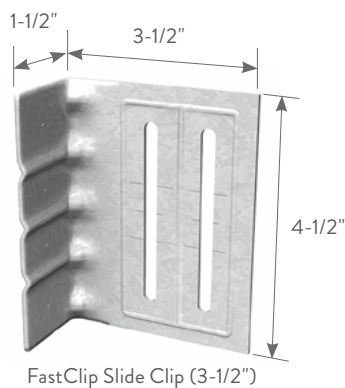
Flat Tail™

Slide Clip™

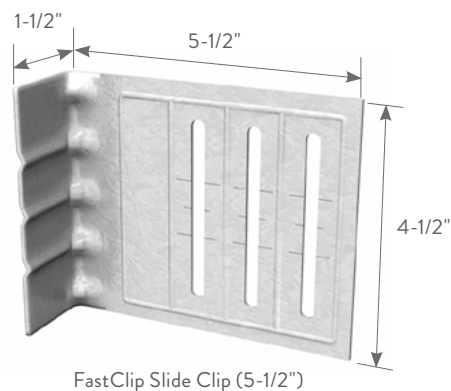
PRODUCT DIMENSIONS

3-1/2" FastClip: 1-1/2" x 3-1/2" x 4-1/2"

5-1/2" FastClip: 1-1/2" x 5-1/2" x 4-1/2"

FastClip
Deflection
Screw

FastClip Slide Clip (3-1/2")



FastClip Slide Clip (5-1/2")

MATERIAL SPECIFICATIONS

Gauge: 14 gauge (68mil)/12 gauge (97mil)**Design Thickness:** 0.0713 inches/0.1017 inches**Coating:** G90**Yield Strength:** 50ksi**ASTM:** A653/A653M

INSTALLATION

Connections to the building can be made with screws, powder-actuated fasteners or drill-in concrete anchors. Mechanical fasteners shall be located on the embossed marks given on the scored line of the 1-1/2" flange. Two or three FastClip deflection screws (based upon clip size) are used to attach the clip to the cold-formed steel framing. Screws shall be driven through the slotted holes and positioned to allow for the appropriate building deflection.

FastClip™ SLIDE CLIPS

Product code	Thickness			Size (in)	Packaging Pcs./Carton
	Gauge	Mils	Design thickness (in)		
FCSC	14	68	0.0713	1-1/2 x 3-1/2 x 4-1/2	25
FCSC	14	68	0.0713	1-1/2 x 5-1/2 x 4-1/2	25
FCSC	12	97	0.1017	1-1/2 x 5-1/2 x 4-1/2	25

3-1/2" FCSC includes 55 FastClip deflection screws per carton.

5-1/2" FCSC includes 80 FastClip deflection screws per carton.

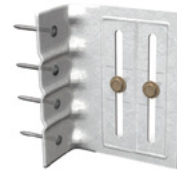
ICC ESR-2570
ATI CCRR-0208
U.S. Patent No. 6,688,069



Location Options with (2) Anchors



Location Options with (3) Anchors



(4) Anchors



Location Options with (2) Anchors



Location Options with (3) Anchors



(4) Anchors

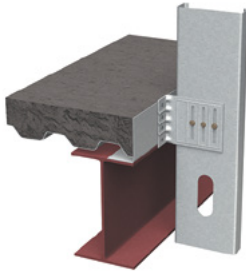
3-1/2" FastClip™ ALLOWABLE LOADS (LBS)			
Anchor type	Stud thickness and yield strength	No. anchors to structure	Allowable load (lbs)
Buildex #12-24 Tek 5 Self-Drilling Screws to 3/16" Steel	20ga (33mil) 33ksi	2	425
		3	425
		4	425
	18ga (43mil) 33ksi	2	852
		3	852
		4	852
	16ga (54mil) 50ksi	2	852
		3	852
		4	852
	14ga (68mil) 50ksi	2	852
		3	852
		4	852
12ga (97mil) 50ksi	2	852	
	3	852	
	4	852	
PAF to 3/16" Steel*	20ga (33mil) 33ksi	2	511
		3	587
		4	587
	18ga (43mil) 33ksi	2	511
		3	767
		4	852
	16ga (54mil) 50ksi	2	852
		3	852
		4	852
	14ga (68mil) 50ksi	2	852
		3	852
		4	852
12ga (97mil) 50ksi	2	852	
	3	852	
	4	852	

5-1/2" FastClip™ ALLOWABLE LOADS (LBS)			
Anchor type	Stud thickness and yield strength	No. anchors to structure	Allowable load (lbs)
Buildex #12-24 Tek 5 Self-Drilling Screws to 3/16" Steel	20ga (33mil) 33ksi	2	689
		3	689
		4	689
	18ga (43mil) 33ksi	2	852
		3	852
		4	852
	16ga (54mil) 50ksi	2	852
		3	852
		4	852
	14ga (68mil) 50ksi	2	852
		3	852
		4	852
12ga (97mil) 50ksi	2	852	
	3	852	
	4	852	
PAF to 3/16" Steel*	20ga (33mil) 33ksi	2	510
		3	689
		4	689
	18ga (43mil) 33ksi	2	510
		3	765
		4	852
	16ga (54mil) 50ksi	2	852
		3	852
		4	852
	14ga (68mil) 50ksi	2	852
		3	852
		4	852
12ga (97mil) 50ksi	2	852	
	3	852	
	4	852	

*See General Note #6 on page 9 for the definition of PAF, minimum requirements and other additional information.

Notes:

- 1 The 1/3 stress increase for wind shall not be used.
- 2 Attach building anchors to the structure according to the manufacturer's instructions. Anchors shall be installed through the embossments on the scored line of the clip as shown on the drawings above. In no case shall anchors be installed more than 3/4" from the bend on the short leg of the clip. In cases of discrepancy between this information and the design engineer's details, the design engineer's details shall be followed.
- 3 It is the responsibility of the design professional to detail the project drawings for proper clip installation.
- 4 For connections to concrete, or other technical assistance, contact ClarkDietrich at 888-437-3244.
- 5 Buildex is a registered trademark of Illinois Tool Works, Inc.



FastClip™ Slide Clip (FCSC)

12 GA FastClip™ ALLOWABLE LOADS (LBS)

Anchor type	Stud thickness and yield strength	No. anchors to structure	Allowable load* (lbs)	Allowable load# (lbs)
Buildex #12-24 Self-Drilling Screws to 3/16" Steel	20ga (33mil) 33ksi	2	608	608
		3	608	608
		4	608	608
	18ga (43mil) 33ksi	2	905	905
		3	905	905
		4	905	905
	16ga (54mil) 50ksi	2	1004	1004
		3	1506	1506
		4	1553	1710
	14ga (68mil) 50ksi	2	1004	1004
		3	1506	1506
		4	1553	1710
	12ga (97mil) 50ksi	2	1004	1004
		3	1506	1506
		4	1553	1710
Hilti 0.157" X-U Powder-Actuated Fasteners (PAF) to 3/16" Steel	20ga (33mil) 33ksi	2	608	608
		3	608	608
		4	608	608
	18ga (43mil) 33ksi	2	905	905
		3	905	905
		4	905	905
	16ga (54mil) 50ksi	2	1064	1064
		3	1553	1596
		4	1553	1710
	14ga (68mil) 50ksi	2	1064	1064
		3	1553	1596
		4	1553	1710
	12ga (97mil) 50ksi	2	1064	1064
		3	1553	1596
		4	1553	1710
Generic Fasteners to 3/16" Steel	20ga (33mil) 33ksi	n	608	608
	18ga (43mil) 33ksi	n	905	905
	16ga (54mil) 50ksi	n	1553	1710
	14ga (68mil) 50ksi	n	1553	1710
	12ga (97mil) 50ksi	n	1553	1710
Ultimate Clip Capacity	20ga (33mil) 33ksi	—	1825	
	18ga (43mil) 33ksi	—	2715	
	16ga (54mil) 50ksi	—	5130	
	14ga (68mil) 50ksi	—	5130	
	12ga (97mil) 50ksi	—	5130	

Notes:

- 1 Tabulated allowable loads do not include a 1/3 stress increase for wind.
- 2 * - Allowable capacity includes 1/8" service load limit.
- 3 # - Allowable capacity does not include 1/8" service load limit.
- 4 Mechanical fasteners should be attached to the structure in accordance with the manufacturer's instructions. All fasteners were assumed to be installed at a distance of 3/4" from the bend of the structural leg.
- 5 n - Number of generic mechanical fasteners required for connection to be determined by a design professional. Capacity should not exceed tabulated allowable loads.
- 6 Generic fastener capacities were calculated by considering clip-stud interaction, behavior of clip in tension and compression only. The design professional has to detail for clip and desired fastener installation.
- 7 Ultimate clip capacities were tabulated for the purpose of blast loads and they do not assume a safety factor.
- 8 Ultimate clip capacities were calculated by assuming that the structural leg of the clip fastened to 3/16" steel using (4) Buildex #12-24 fasteners or (4) Hilti X-U fasteners.
- 9 It is the responsibility of the design professional to detail the project drawings for proper clip and fastener installation.
- 10 Buildex is a registered trademark of Illinois Tool Works, Inc.
- 11 Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.