

8" 97-mil (12ga) Extended FastClip™ Slide Clip (FCEC)

Curtain Wall/Bypass

Vertical building movement up to 3," and commonly used for large standoff conditions.

ClarkDietrich FCEC 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. The clips are ideal for medium to larger standoff conditions. Extended FastClip™ deflection clips install quickly with screws, welds or powder-actuated fasteners, and provide adjustable standoff to ensure a plumb wall plane. FastClip deflection screws are provided with each clip to ensure friction-free sliding.

ALTERNATIVE PRODUCTS

Fast Strut™

PRODUCT DIMENSIONS

8" Extended FastClip: 1-7/8" x 8" x 4-3/4"

MATERIAL SPECIFICATIONS

Gauge: 12 gauge (97mil)

Design Thickness: 0.1017 inches

Coating: G90

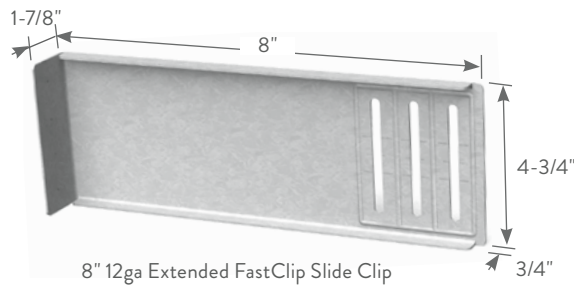
Yield Strength: 50ksi

ASTM: A653/A653M

INSTALLATION

Connections to the building can be made with screws, welds, powder-actuated fasteners or drill-in concrete anchors. Mechanical fasteners shall be located on the embossed marks given on the scored line of the 1-7/8" flange. Three FastClip deflection screws 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 Deflection Screw



EXTENDED FastClip™ SLIDE CLIPS

Product code	Thickness			Size (in)	Packaging Pcs./Bucket
	Gauge	Mils	Design thickness (in)		
FCEC	12	97	0.1017	1-7/8 x 8 x 4-3/4	25

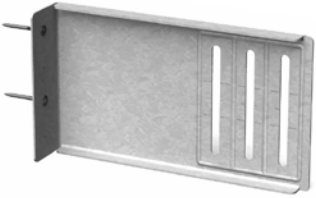
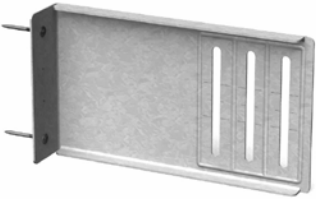
Includes 80 FastClip deflection screws per bucket.

U.S. Patent No. 6,688,069

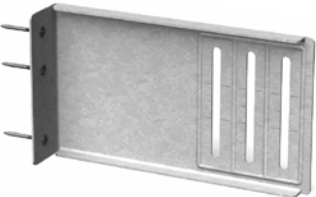
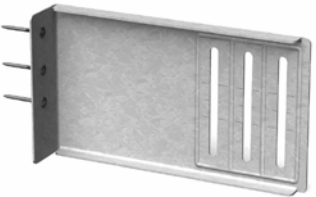
8" 97-mil Extended FastClip™ Slide Clip (FCEC)

12-ga EXTENDED FastClip ALLOWABLE LOADS (LBS)

Anchor type	Stud thickness and yield strength	No. anchors to structure	Allowable load* (lbs)	Allowable load# (lbs)
Weld (Fillet/Flare Groove) E60XX	20ga (33mil) 33ksi	(3) 1" x 1/16"	608	608
	18ga (43mil) 33ksi	(3) 1" x 1/16"	905	905
	16ga (54mil) 50ksi	(3) 1" x 1/16"	1838	1838
	14ga (68mil) 50ksi	(3) 1" x 1/16"	2180	2180
	12ga (97mil) 50ksi	(3) 1" x 1/16"	2587	2587
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	1261	1506
		4	1261	1838
	14ga (68mil) 50ksi	2	1004	1004
		3	1261	1506
		4	1261	2008
12ga (97mil) 50ksi	2	1004	1004	
	3	1261	1506	
	4	1261	2008	
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	1261	1596
		4	1261	1838
	14ga (68mil) 50ksi	2	1064	1064
		3	1261	1596
		4	1261	2129
12ga (97mil) 50ksi	2	1064	1064	
	3	1261	1596	
	4	1261	2129	
Generic Fasteners to 3/16" Steel	20ga (33mil) 33ksi	n	608	608
	18ga (43mil) 33ksi	n	905	905
	16ga (54mil) 50ksi	n	1261	1835
	14ga (68mil) 50ksi	n	1261	2180
	12ga (97mil) 50ksi	n	1261	2587
Ultimate Clip Capacity	20ga (33mil) 33ksi	-	-	1825
	18ga (43mil) 33ksi	-	-	2715
	16ga (54mil) 50ksi	-	-	5514
	14ga (68mil) 50ksi	-	-	6541
	12ga (97mil) 50ksi	-	-	7762



Location Options with (2) Anchors



Location Options with (3) Anchors



(4) Anchors

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 Allowable weld capacities were calculated by assuming 3 x 1" long welds at the ends and center of the clip bend.
- 5 Listed weld capacities were calculated assuming an E60XX electrode.
- 6 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.
- 7 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.
- 8 n - Number of generic mechanical fasteners required for connection to be determined by a design professional. Capacity should not exceed tabulated allowable loads.
- 9 Ultimate clip capacities were tabulated for the purpose of blast loads and they do not assume a safety factor.
- 10 Ultimate clip capacities were calculated by assuming 3 x 1" long weld at the structural leg of the clip (clip bend) welded to 3/16" steel.
- 11 It is the responsibility of the design professional to detail the project drawings for proper clip and fastener installation.
- 12 Buildex is a registered trademark of Illinois Tool Works, Inc.
- 13 Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.