Fast Strut™

Curtain Wall/Bypass

MATERIAL SPECIFICATIONS

Design Thickness: 0.0713 inches

Gauge: 14 gauge (68mil)

Yield Strength: 50ksi

ASTM: A653/A653M

INSTALLATION

Coating: G90

Commonly used for large standoff conditions.

The ClarkDietrich Fast Strut[™] curtain wall connector employs the FastClip[™] technology for curtain wall stud attachment and is commonly used when large standoff conditions exist. Fast Strut products are available in standard lengths of 12-1/4" and 15-1/4" and custom lengths of 18," 20," 22" and 24" long to allow framing attachment well beyond the perimeter of the structural steel—or when the spandrel beams are set back from the edge of the structure. Fast Struts are attached to the underside of structural members with screws, welds or powder-actuated fasteners. Studs are plumbed and secured with propriety screws for friction-free deflection. Each clip is also embossed with fastening patterns to ensure accurate placement of fasteners.

ALTERNATIVE PRODUCTS

FastClip[™] Slide Clip

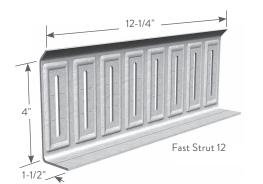
PRODUCT DIMENSIONS

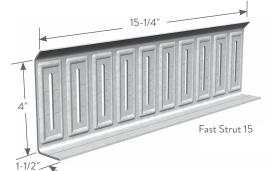
FS12: 4" x 1-1/2" x 12-1/4" **FS15:** 4" x 1-1/2" x 15-1/4" **Extended Lengths:** 4" x 1-1/2" x 18," 20," 22" and 24"



Deflection

Screw





Connections to the building can be made with screws,

welding. Mechanical fasteners shall be equally spaced

must engage the building structure a minimum of 4."

in the table on the opposite page, connections to the building structure must be made according to the notes.

Three FastClip deflection screws are used to attach the

shall be driven through the slotted holes and positioned

Fast Strut to the cold-formed steel framing. Screws

to allow for the appropriate building deflection.

When using the tabulated allowable loads indicated

powder-actuated fasteners, drill-in concrete anchors or

along the scored line of the 1-1/2" flange. The Fast Strut

Fast Strut[™] (FS12, FS15, FS18, FS20, FS22, FS24)

Product code		kness	Size	Packaging Pcs./Carton
i fodder code	Mils (Gauge)	Design thickness (in)	(in)	Pcs./Carton
FS12	68mil (14ga)	0.0713	4 x 1-1/2 x 12-1/4	10
FS15	68mil (14ga)	0.0713	4 x 1-1/2 x 15-1/4	10
FS18	68mil (14ga)	0.0713	4 x 1-1/2 x 18	10
FS20	68mil (14ga)	0.0713	4 x 1-1/2 x 20	10
FS22	68mil (14ga)	0.0713	4 x 1-1/2 x 22	10
FS24	68mil (14ga)	0.0713	4 x 1-1/2 x 24	10
Custom lengths	68mil (14ga)	0.0713	per customer specs	10

Includes 55 FastClip deflection screws per carton.

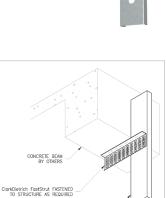
U.S. Patent No. 6,688,069

Pub. No. CD-ClipExpress 03/21

		Welded direct to structural steel	Mechanically Anchored				Typical Construction Details	
Stud thickness Slip and yield strength	Slip allowance (in)		Number of anchors	PAF in steel (FS=5)	PAF in steel (FS=10)	Buildex #12-24 screws in steel	Hilti 1/4"x1-3/4" Kwik-Cons in concrete	DIENETRA OF RECORD. PEAKE VERPT TORSCHIL STABUTY OF BEAK.
33mil (20ga) 33ksi 1.25	0.75	546	2	546	290	546	269	CONTINUOUS STRL STEEL BY OTHERS
	0.75	546	3	546	343	546	_	
	1 25	546	2	513	257	546	232	
	1.25	546	3	546	294	546	_	
43mil (18ga) 33ksi	0.75	1522	2	579	290	789	269	
	0.75	1522	3	686	343	963	_	
	1.25	1522	2	513	257	720	232	ConkDietrich FastStrut (S-SERIES CLIP WITH SORENS TO STUD AS REDTD BY DESTAR.
	1.20	1522	3	587	294	760	_	TYPICAL STUD
54mil (16ga) 33ksi 1.25	0.75	1612	2	579	290	789	269	FS-SERIES CLIP TO BOTTOM OF BEAN
	0.75	1612	3	686	343	963		UTS SERVES CER TO BOTTOM OF BEAL
	1.05	1612	2	513	257	720	232	
	1.25	1612	3	587	294	760		
54mil (16ga) 50ksi 1.25	0.75	1705	2	579	290	789	269	
	0.75	1705	3	686	343	963		
	1.05	1705	2	513	257	720	232	
	1.25	1705	3	587	294	760		
68mil (14ga) 33ksi 1.25	0.75	1792	2	579	290	789	269	
	0.75	1792	3	686	343	963		
	1.05	1792	2	513	257	720	232	
	1.25	1792	3	587	294	760		
68mil (14ga) 50ksi 1.25	0.75	1978	2	579	290	789	269	
	0.75	1978	3	686	343	963		
	1.05	1978	2	513	257	720	232	
	1.25	1978	3	587	294	760		
97mil (12ga) 33ksi 1.25	0.75	2481	2	579	290	789	269	
	0.75	2481	3	686	343	963	_	
	4.05	2481	2	513	257	720	232	
	1.25	2481	3	587	294	760		
97mil (12ga) 50ksi	0.75	2997	2	579	290	789	269	
	0.75	2997	3	686	343	963		
	4.05	2997	2	513	257	720	232	CONCRETE BEAM
	1.25	2997	3	587	294	760		CONCRETE BEAM BY OTHERS

Notes:

- 1 Except when welding, tabulated values require a minimum of 4" of structure engagement. For other conditions or technical assistance, contact ClarkDietrich at 888-437-3244.
- 2 The tabulated values for welds are based on the following weld lengths: use 4-1/2" of weld along each edge of the 1-1/2" FastStrut leg for 20, and 18 gauge, use 5-1/2" along each edge for 16 and 14 gauge, use 6-1/2" along each edge for 12 gauge. Use E70XX (min.) electrodes. (Note that the welded values may require more than 4" of structure engagement.)
- 3 Tabulated values for PAFs and Buildex screws are based on the following: fasteners are spaced at 3" o.c. (min.) when using two anchors, and 1-1/2" o.c. (min.) when using three anchors; anchors are placed 1/2" (min.) away from the edge of the building structure, and 1/2" (min.) away from edge of the Fast Strut.
- 4 Tabulated values for Hilti Kwik-Cons are based on the following: anchors are spaced at 2-3/4" o.c. (min.), anchors are placed 3/4" (min.) away from edge of building structure and 1/2" (min.) away from edge of Fast Strut. The tabulated values are based on 3000psi normal weight concrete.
- 5 For 3/4" deflection, center the propriety screws along the topmost hash mark. For 1-1/4" deflection, center the screws along the center hash mark.
- 6 Capacities listed for PAFs are based on minimum PAF requirements listed in General Note #6 on page 9.
- 7 It is the responsibility of the design professional to detail the project drawings for proper clip attachment.
- 8 Buildex is a registered trademark of Illinois Tool Works, Inc.
- 9 Hilti is a registered trademark of Hilti Aktiengeseilschaft Corporation.





TYPICAL STUD

Visit our CAD Library at clarkdietrich.com to view or download construction details in .dwg, .dxf, and .pdf formats.

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