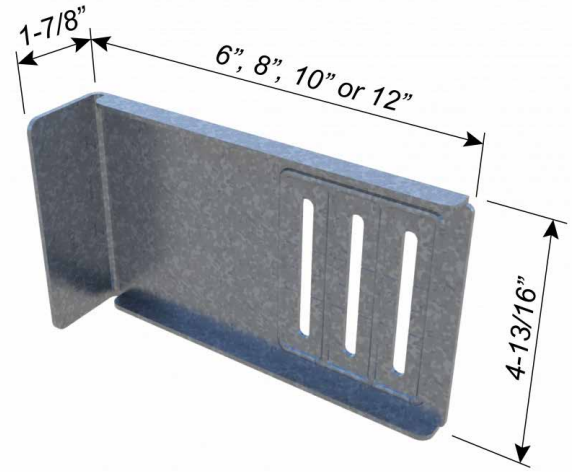


Extended FastClip™ Slide Clip

Curtain Wall/Bypass

Vertical building movement up to 3" (1-1/2" up and 1-1/2" down) 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 available in standard lengths of 6", 8", 10" and 12" and 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. Proprietary Deflection Screws are provided with each clip to ensure friction-free sliding.

**MATERIAL SPECIFICATIONS**

Gauge: 14 gauge (68mils)

Design Thickness: 0.0713 inches

Gauge: 12 gauge (97mils)

Design Thickness: 0.1017 inches

Coating: G90

Yield Strength: 50ksi

PRODUCT DIMENSIONS

6" Extended FastClip: 1-7/8" x 6" x 4-3/4"

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

10" Extended FastClip: 1-7/8" x 10" x 4-3/4"

12" Extended FastClip: 1-7/8" x 12" x 4-3/4"

CODE APPROVALS AND PERFORMANCE STANDARDS

IAPMO ER-729

AISI S100

ALTERNATIVE PRODUCTS

Fast Strut™

Universal Bypass Clip

Extended FastClip™ Slide Clip (FCEC)

Clip Designation	Product Thickness		Size (in)	Packaging Pcs./Bucket
	mils (ga)	Design Thickness (in)		
FCEC6-68	68 (14)	0.0713	1-7/8 x 6 x 4-3/4	25
FCEC6-97	97 (12)	0.1017	1-7/8 x 6 x 4-3/4	25
FCEC8-68	68 (14)	0.0713	1-7/8 x 8 x 4-3/4	25
FCEC8-97	97 (12)	0.1017	1-7/8 x 8 x 4-3/4	25
FCEC10-68	68 (14)	0.0713	1-7/8 x 10 x 4-3/4	25
FCEC10-97	97 (12)	0.1017	1-7/8 x 10 x 4-3/4	25
FCEC12-68	68 (14)	0.0713	1-7/8 x 12 x 4-3/4	25
FCEC12-97	97 (12)	0.1017	1-7/8 x 12 x 4-3/4	25

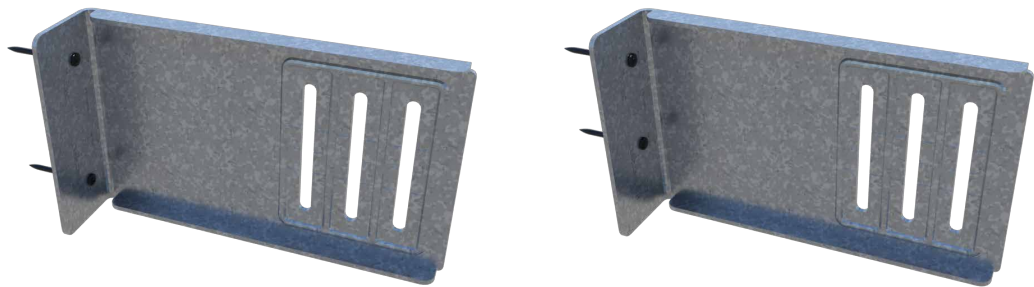
Includes 80 proprietary deflection screws per carton.
U.S. Patent No. 6,688,069

INSTALLATION

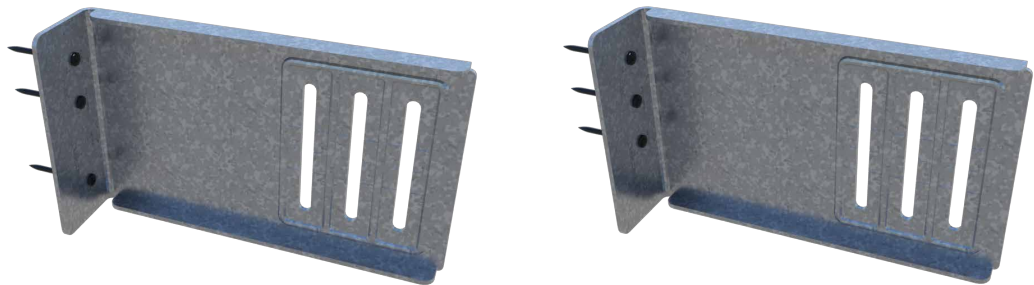
Connections to the building can be made with screws, welds, powder-actuated fasteners or drill-in concrete anchors. Mechanical fasteners shall be located on the embossed marks given on the scored line of the 1-7/8" flange. Three Proprietary Deflection Screws are used to attach the clip to the cold-formed steel framing. Screws shall be driven through the slotted holes and positioned to allow for the appropriate building deflection.

Proprietary Deflection Screws:

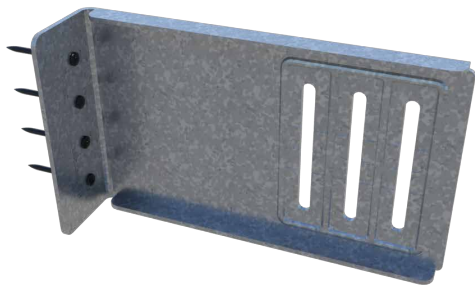
Many of the ClarkDietrich deflection clips include our proprietary deflection fastener that has been specifically designed to provide friction-free deflection. These fasteners eliminate drag, binding or resistance that can often occur with common fasteners.



Location Options with (2) Anchors



Location Options with (3) Anchors



(4) Anchors

Extended FastClip™ Slide Clip - 12ga

ATTACHMENT TO STRUCTURE: DESIGNED BY OTHERS

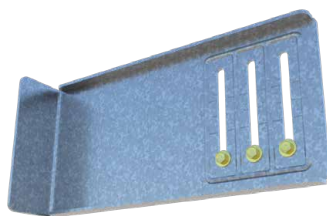
Clip Designation	Framing Member Details			Load Capacities (lbs)										
				In-Plane (F1)			Tension (F2)				Compression (F3)			
	Stud Depth (in)	Max. Standoff (in)	Stud Thickness mils (ga)	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load
FCEC6-97	6	2-1/2	33 (20)	290	100	160	1540	1825	610	910	2075	1825	610	910
			43 (18)	430	145	215	1690	2715	905	1360	2825	2715	905	1360
			54 (16)	705	245	390	1785	3830	1320	2110	4135	5330	1840	2755
			68 (14)	985	330	490	1960	4200	1550	2325	4620	6175	2600	3900
			97 (12)	1405	470	700	1985	4200	1550	2325	4620	6685	3050	4570
FCEC8-97	6	4-1/2	33 (20)	325	110	165	1540	1825	610	910	2120	1825	610	910
			43 (18)	430	145	215	1615	2715	905	1360	2640	2690	905	1360
			54 (16)	715	245	390	1615	4015	1380	2210	4035	4460	1535	2455
			68 (14)	985	330	490	1770	4200	1550	2325	4560	5740	1975	3160
			97 (12)	1405	470	700	1770	4200	1550	2325	5600	7430	2555	4090
FCEC10-97	6	6-1/2	33 (20)	290	100	160	1500	1825	610	910	2180	1825	610	910
			43 (18)	430	145	215	1690	2715	905	1360	2755	2665	905	1360
			54 (16)	755	260	390	1710	4090	1405	2250	3895	4125	1420	2270
			68 (14)	985	330	490	1785	4200	1550	2325	4500	5485	1890	3020
			97 (12)	1405	470	700	1830	4200	1550	2325	5260	7625	2625	4200
FCEC12-97	6	8-1/2	33 (20)	270	110	165	1470	1825	610	910	2230	1825	610	910
			43 (18)	370	145	215	1605	2715	905	1360	2705	2670	905	1360
			54 (16)	555	260	390	1710	3980	1370	2190	3670	4060	1400	2235
			68 (14)	985	330	490	1730	4200	1550	2325	3820	4935	1700	2715
			97 (12)	1405	470	700	1815	4200	1550	2325	4895	6970	2400	3840

Notes:

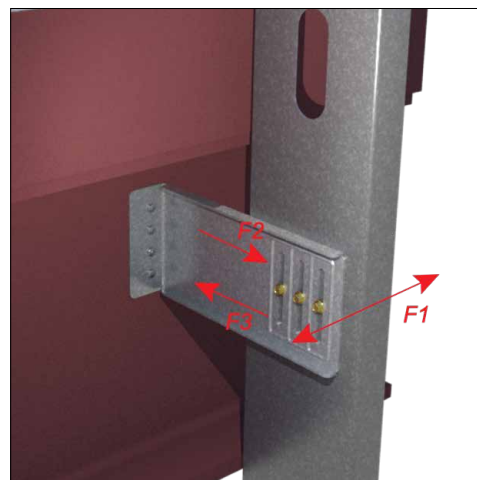
- 1 Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20 and ICC-ES AC261.
- 2 Extended FastClip attachment to structure designed by others. Listed capacities are applicable for Extended FastClip to stud only (framing connection).
- 3 Proprietary HD Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities applicable for screws centered and off-centered/offset Extended FastClip slots for framing connection.
- 4 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.
- 5 The Proprietary HD Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- 6 ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service and strength.
- 7 It is the responsibility of the design professional to detail the project drawings for proper Extended FastClip installation.
- 8 Other framing members may be used with these clips; however, it is the responsibility of the design professional to verify the framing members' capacities and potential failure modes.



**FRAMING CENTERED
CONNECTION**



**FRAMING OFFSET
CONNECTION**



ATTACHMENT TO STRUCTURE: WELD TO 3/16" STEEL

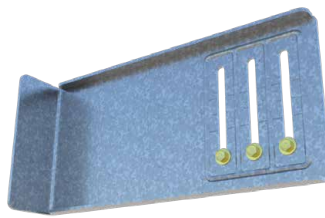
Clip Designation	Stud Thickness / Yield Strength mils (ga) ksi	Max. Standoff (in)	Mechanically Anchored to Structure	Load Capacities (lbs) / Clip										
				In-Plane (F1)			Tension (F2)				Compression (F3)			
				Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load
FCEC6-97	33 (20) 33	2-1/2	(2) 1" Welds along back/bend of short leg of short leg (each weld equally distanced from center of clip)	290	100	160	—	1825	610	910	—	1825	610	910
	43 (18) 33			430	145	215	—	2715	905	1360	—	2715	905	1360
	54 (16) 50			705	245	390	—	3830	1320	2110	—	5330	1840	2755
	68 (14) 50			940	330	490	—	5025	1730	2765	—	6175	2600	3900
	97 (12) 50			940	470	700	—	6250	2150	3440	—	6685	3050	4570
FCEC8-97	33 (20) 33	4-1/2		325	110	165	—	1825	610	910	—	1825	610	910
	43 (18) 33			430	145	215	—	2715	905	1360	—	2690	905	1360
	54 (16) 50			565	245	390	—	4015	1380	2210	—	4460	1535	2455
	68(14) 50			565	330	490	—	5485	1890	3020	—	5740	1975	3160
	97 (12) 50			565	340	505	—	6610	2275	3640	—	7430	2555	4090
FCEC10-97	33 (20) 33	6-1/2		290	100	160	—	1825	610	910	—	1825	610	910
	43 (18) 33			405	145	215	—	2715	905	1360	—	2665	905	1360
	54 (16) 50			405	240	360	—	4090	1405	2250	—	4125	1420	2270
	68 (14) 50			405	240	360	—	5305	1825	2920	—	5485	1890	3020
	97 (12) 50			405	240	360	—	6530	2245	3595	—	7625	2625	4200
FCEC12-97	33 (20) 33	8-1/2		270	110	165	—	1825	610	910	—	1825	610	910
	43 (18) 33			315	145	215	—	2715	905	1360	—	2670	905	1360
	54 (16) 50			315	190	280	—	3980	1370	2190	—	4060	1400	2235
	68 (14) 50			315	190	280	—	5175	1780	2850	—	4935	1700	2715
	97 (12) 50			315	190	280	—	6745	2320	3715	—	6970	2400	3840

Notes:

- 1 Listed Capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20 and ICC-ES AC261.
- 2 Tabulated load capacities are based on the following considerations:
 - a. Framing Connection: Proprietary HD Deflection Screws (0.25" dia)
 - b. Connection to Structure: (2) 1" long fillet weld equally spaced on back (bend) of the structural connection leg for FCEC to 3/16" thick ASTM A36 Steel.
 - c. Listed capacities have not been increased for wind, seismic, or other factors.
 - d. E70XX (min) electrode Weld.
- 3 ASD and LRFD loads are based on nominal capacities only. Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.
- 4 Proprietary HD Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities applicable for screws centered and off-centered/offset Extended FastClip slots for framing connection.
- 5 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.
- 6 The Proprietary HD Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- 7 It is the responsibility of the design professional to detail the project drawings for proper Extended FastClip installation.



**FRAMING CENTERED
CONNECTION**



**FRAMING OFFSET
CONNECTION**



Extended FastClip™ Slide Clip - 12ga

ATTACHMENT TO STRUCTURE: #12 SCREWS TO 3/16" STEEL

Clip Designation	Stud Thickness/ Yield Strength mils (ga) ksi	Max. standoff (in)	Mechanically anchored to structure	Load Capacities (lbs) / Clip										
				In-Plane (F1)			Tension (F2)				Compression (F3)			
				Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load
FCEC6-97	33 (20) 33	2-1/2		290	100	160	1540	1825	610	910	1825	1825	610	910
			3	290	100	160	1540	1825	610	910	1825	1825	610	910
			4	290	100	160	1540	1825	610	910	1825	1825	610	910
	43 (18) 33		2	430	145	215	1690	2325	775	1165	2325	2325	775	1165
			3	430	145	215	1690	2715	905	1360	2715	2715	905	1360
			4	430	145	215	1690	2715	905	1360	2715	2715	905	1360
	54 (16) 50		2	705	245	390	1785	2325	775	1165	2325	2325	775	1165
			3	705	245	390	1785	3370	1125	1685	3490	3490	1165	1745
			4	705	245	390	1785	3830	1285	1925	4135	4200	1550	2325
	68 (14) 50		2	940	330	490	1960	2325	775	1165	2325	2325	775	1165
			3	940	330	490	1960	3370	1125	1685	3490	3490	1165	1745
			4	940	330	490	1960	3855	1285	1925	4200	4200	1550	2325
	97 (12) 50		2	940	470	700	1985	2325	775	1165	2325	2325	775	1165
			3	940	470	700	1985	3370	1125	1685	3490	3490	1165	1745
			4	940	470	700	1985	3855	1285	1925	4200	4200	1550	2325
FCEC8-97	33 (20) 33	4-1/2	2	325	110	165	1540	1825	610	910	1825	1825	610	910
			3	325	110	165	1540	1825	610	910	1825	1825	610	910
			4	325	110	165	1540	1825	610	910	1825	1825	610	910
	43 (18) 33		2	430	145	215	1615	2325	775	1165	2325	2325	775	1165
			3	430	145	215	1615	2715	905	1360	2640	2690	905	1360
			4	430	145	215	1615	2715	905	1360	2640	2690	905	1360
	54 (16) 50		2	565	245	390	1615	2325	775	1165	2325	2325	775	1165
			3	565	245	390	1615	3370	1125	1685	3490	3490	1165	1745
			4	565	245	390	1615	3855	1285	1925	4035	4200	1535	2325
	68 (14) 50		2	565	330	490	1770	2325	775	1165	2325	2325	775	1165
			3	565	330	490	1770	3370	1125	1685	3490	3490	1165	1745
			4	565	330	490	1770	3855	1285	1925	4200	4200	1550	2325
	97 (12) 50		2	565	340	505	1770	2325	775	1165	2325	2325	775	1165
			3	565	340	505	1770	3370	1125	1685	3490	3490	1165	1745
			4	565	340	505	1770	3855	1285	1925	4200	4200	1550	2325
FCEC10-97	33 (20) 33	6-1/2	2	290	100	160	1500	1825	610	910	1825	1825	610	910
			3	290	100	160	1500	1825	610	910	1825	1825	610	910
			4	290	100	160	1500	1825	610	910	1825	1825	610	910
	43 (18) 33		2	405	145	215	1690	2325	775	1165	2325	2325	775	1165
			3	405	145	215	1690	2715	905	1360	2665	2665	905	1360
			4	405	145	215	1690	2715	905	1360	2665	2665	905	1360
	54 (16) 50		2	405	240	360	1710	2325	775	1165	2325	2325	775	1165
			3	405	240	360	1710	3370	1125	1685	3490	3490	1165	1745
			4	405	240	360	1710	3855	1285	1925	3895	4125	1420	2270
	68 (14) 50		2	405	240	360	1785	2325	775	1165	2325	2325	775	1165
			3	405	240	360	1785	3370	1125	1685	3490	3490	1165	1745
			4	405	240	360	1785	3855	1285	1925	4200	4200	1550	2325
	97 (12) 50		2	405	240	360	1830	2325	775	1165	2325	2325	775	1165
			3	405	240	360	1830	3370	1125	1685	3490	3490	1165	1745
			4	405	240	360	1830	3855	1285	1925	4200	4200	1550	2325
FCEC12-97	33 (20) 33	8-1/2	2	270	110	165	1470	1825	610	910	1825	1825	610	910
			3	270	110	165	1470	1825	610	910	1825	1825	610	910
			4	270	110	165	1470	1825	610	910	1825	1825	610	910
	43 (18) 33		2	315	145	215	1605	2325	775	1165	2325	2325	775	1165
			3	315	145	215	1605	2715	905	1360	2670	2670	905	1360
			4	315	145	215	1605	2715	905	1360	2670	2670	905	1360
	54 (16) 50		2	315	190	280	1710	2325	775	1165	2325	2325	775	1165
			3	315	190	280	1710	3370	1125	1685	3490	3490	1165	1745
			4	315	190	280	1710	3855	1285	1925	3670	4060	1400	2235
	68 (14) 50		2	315	190	280	1730	2325	775	1165	2325	2325	775	1165
			3	315	190	280	1730	3370	1125	1685	3490	3490	1165	1745
			4	315	190	280	1730	3855	1285	1925	3820	4200	1550	2325
	97 (12) 50		2	315	190	280	1815	2325	775	1165	2325	2325	775	1165
			3	315	190	280	1815	3370	1125	1685	3490	3490	1165	1745
			4	315	190	280	1815	3855	1285	1925	4200	4200	1550	2325

Notes:

1 Listed capacities are in accordance with provisions of AISI S100-16 (R2020/ S2-20 and ICC-ES AC261.

2 Tabulated load capacities are based on the following considerations:

a. Framing Connection: Proprietary HD Deflection Screws (0.25" dia)

b. Connection to Structure: #12 HWH Fasteners connected to 3/16" thick ASTM A36 Steel (see illustrations for base fastener locations)

c. Other fasteners may be used to achieve full clip capacity but must be designed separately.

d. Listed capacities have not been increased for wind, seismic, or other factors.

3 ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service and strength.

4 Proprietary HD Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities applicable for screws centered and off-centered/offset Extended FastClip slots for framing connection.

5 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.

6 The #12 HWH Fasteners shall have a minimum nominal shear capacity of 2000lbs and minimum nominal tension capacity of 2778lbs according to ESR-1976 and Manufacturer Limits.

7 The Proprietary HD Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.

8 Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.

9 It is the responsibility of the design professional to detail the project drawings for proper Extended FastClip installation.

ATTACHMENT TO STRUCTURE: 0.157" HILTI X-U PINS TO 3/16" STEEL

Clip Designation	Stud Thickness/ Yield Strength mils (ga) ksi	Max. Standoff (in)	Mechanically Anchored to Structure	Load Capacities (lbs) / Clip										
				In-Plane (F1)			Tension (F2)				Compression (F3)			
				Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load
FCEC6-97	33 (20) 33	2-1/2	2	290	100	160	1540	1825	610	910	1825	1825	610	910
			3	290	100	160	1540	1825	610	910	1825	1825	610	910
			4	290	100	160	1540	1825	610	910	1825	1825	610	910
	43 (18) 33		2	430	145	215	1690	2400	800	1200	2715	2715	905	1360
			3	430	145	215	1690	2715	905	1360	2715	2715	905	1360
			4	430	145	215	1690	2715	905	1360	2715	2715	905	1360
	54 (16) 50		2	705	245	390	1785	2400	800	1200	3000	3000	1000	1500
			3	705	245	390	1785	3000	1000	1500	4135	4500	1500	2250
			4	705	245	390	1785	3430	1145	1715	4135	4950	1840	2755
	68 (14) 50		2	940	330	490	1960	2400	800	1200	3000	3000	1000	1500
			3	940	330	490	1960	3000	1000	1500	4500	4500	1500	2250
			4	940	330	490	1960	3430	1145	1715	4620	4950	2000	3000
97 (12) 50	2	940	470	700	1985	2400	800	1200	3000	3000	1000	1500		
	3	940	470	700	1985	3000	1000	1500	4500	4500	1500	2250		
	4	940	470	700	1985	3430	1145	1715	4620	4950	2000	3000		
FCEC8-97	33 (20) 33	4-1/2	2	325	110	165	1540	1825	610	910	1825	1825	610	910
			3	325	110	165	1540	1825	610	910	1825	1825	610	910
			4	325	110	165	1540	1825	610	910	1825	1825	610	910
	43 (18) 33		2	430	145	215	1615	2400	800	1200	2640	2690	905	1360
			3	430	145	215	1615	2715	905	1360	2640	2690	905	1360
			4	430	145	215	1615	2715	905	1360	2640	2690	905	1360
	54 (16) 50		2	565	245	390	1615	2400	800	1200	3000	3000	1000	1500
			3	565	245	390	1615	3000	1000	1500	4035	4460	1500	2250
			4	565	245	390	1615	3430	1145	1715	4035	4460	1535	2455
	68 (14) 50		2	565	330	490	1770	2400	800	1200	3000	3000	1000	1500
			3	565	330	490	1770	3000	1000	1500	4500	4500	1500	2250
			4	565	330	490	1770	3430	1145	1715	4560	4950	1975	3000
97 (12) 50	2	565	340	505	1770	2400	800	1200	3000	3000	1000	1500		
	3	565	340	505	1770	3000	1000	1500	4500	4500	1500	2250		
	4	565	340	505	1770	3430	1145	1715	4950	4950	2000	3000		
FCEC10-97	33 (20) 33	6-1/2	2	290	100	160	1500	1825	610	910	1825	1825	610	910
			3	290	100	160	1500	1825	610	910	1825	1825	610	910
			4	290	100	160	1500	1825	610	910	1825	1825	610	910
	43 (18) 33		2	405	145	215	1690	2400	800	1200	2665	2665	905	1360
			3	405	145	215	1690	2715	905	1360	2665	2665	905	1360
			4	405	145	215	1690	2715	905	1360	2665	2665	905	1360
	54 (16) 50		2	405	240	360	1710	2400	800	1200	3000	3000	1000	1500
			3	405	240	360	1710	3000	1000	1500	3895	4125	1420	2250
			4	405	240	360	1710	3430	1145	1715	3895	4125	1420	2270
	68 (14) 50		2	405	240	360	1785	2400	800	1200	3000	3000	1000	1500
			3	405	240	360	1785	3000	1000	1500	4500	4500	1500	2250
			4	405	240	360	1785	3430	1145	1715	4500	4950	1890	3000
97 (12) 50	2	405	240	360	1830	2400	800	1200	3000	3000	1000	1500		
	3	405	240	360	1830	3000	1000	1500	4500	4500	1500	2250		
	4	405	240	360	1830	3430	1145	1715	4950	4950	2000	3000		
FCEC12-97	33 (20) 33	8-1/2	2	270	110	165	1470	1825	610	910	1825	1825	610	910
			3	270	110	165	1470	1825	610	910	1825	1825	610	910
			4	270	110	165	1470	1825	610	910	1825	1825	610	910
	43 (18) 33		2	315	145	215	1605	2400	800	1200	2670	2670	905	1360
			3	315	145	215	1605	2715	905	1360	2670	2670	905	1360
			4	315	145	215	1605	2715	905	1360	2670	2670	905	1360
	54 (16) 50		2	315	190	280	1710	2400	800	1200	3000	3000	1000	1500
			3	315	190	280	1710	3000	1000	1500	3670	4060	1400	2235
			4	315	190	280	1710	3430	1145	1715	3670	4060	1400	2235
	68 (14) 50		2	315	190	280	1730	2400	800	1200	3000	3000	1000	1500
			3	315	190	280	1730	3000	1000	1500	3820	4500	1500	2250
			4	315	190	280	1730	3430	1145	1715	3820	4935	1700	2715
97 (12) 50	2	315	190	280	1815	2400	800	1200	3000	3000	1000	1500		
	3	315	190	280	1815	3000	1000	1500	4500	4500	1500	2250		
	4	315	190	280	1815	3430	1145	1715	4895	4950	2000	3000		

Notes:

1 Listed Capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20, ICC-ES AC261 and ESR 2269.

2 Tabulated load capacities are based on the following considerations:

a. Framing Connection: Proprietary HD Deflection Screws (0.25" dia)

b. Connection to Structure: 0.157" Hilti X-U Pins connected to 3/16" thick ASTM A36 Steel (see illustrations for base fastener locations).

c. Other fasteners may be used to achieve full clip capacity but must be designed separately.

d. Listed capacities have not been increased for wind, seismic, or other factors.

3 ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service and strength.

4 Proprietary HD Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities applicable for screws centered and off-centered/offset. Extended FastClip slots for framing connection.

5 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100 and ESR2269.

6 The Proprietary HD Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.

7 The Hilti X-U Pin shall have a minimum nominal shear capacity of 3939lbs and minimum nominal tension capacity of 2872lbs according to Hilti Fastening Technical Guide, Edition 2024.

8 Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.

9 It is the responsibility of the design professional to detail the project drawings for proper Extended FastClip installation.

Extended FastClip™ Slide Clip - 14ga

ATTACHMENT TO STRUCTURE: DESIGNED BY OTHERS

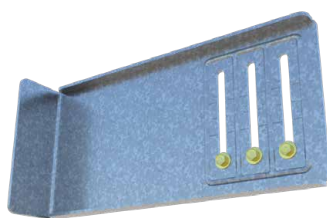
Clip Designation	Framing Member Details			Load Capacities (lbs)										
	Depth (in)	Max. Standoff (in)	Thickness mils (ga)	In-Plane (F1)			Tension (F2)				Compression (F3)			
				Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load
FCEC6-68	6	2-1/2	33 (20)	280	95	155	770	1815	610	910	1925	1770	610	910
			43 (18)	415	140	215	840	2265	780	1245	2535	2585	905	1360
			54 (16)	695	240	385	840	3140	1080	1730	3100	3325	1705	2730
			68 (14)	735	250	405	855	4060	1395	2235	3255	3740	1920	3075
			97 (12)	735	250	405	905	4200	1445	2315	3255	3740	1920	3075
FCEC8-68	6	4-1/2	33 (20)	275	95	150	925	1815	610	910	1950	1825	610	910
			43 (18)	355	120	195	960	2375	815	1305	2350	2565	905	1360
			54 (16)	735	255	390	995	3155	1085	1740	2940	3205	1645	2635
			68 (14)	735	255	405	995	4200	1500	2325	3360	3555	1825	2925
			97 (12)	735	255	405	1035	4200	1520	2325	3455	3555	1825	2925
FCEC10-68	6	6-1/2	33 (20)	315	110	165	905	1825	610	910	1865	1715	610	910
			43 (18)	405	145	215	905	2395	825	1320	2560	2595	905	1360
			54 (16)	695	260	390	905	3330	1145	1835	3255	3210	1650	2640
			68 (14)	795	275	440	905	4165	1435	2295	3415	3505	1800	2880
			97 (12)	795	275	440	950	4200	1535	2325	3495	3505	1800	2880
FCEC12-68	6	8-1/2	33 (20)	260	110	165	805	1775	610	910	2040	1825	610	910
			43 (18)	380	145	215	880	2290	790	1260	2685	2715	905	1360
			54 (16)	570	235	375	935	3265	1125	1800	3070	3190	1640	2620
			68 (14)	670	235	375	935	4165	1435	2295	3365	3440	1770	2830
			97 (12)	680	235	375	935	4200	1445	2315	3415	3440	1770	2830

Notes:

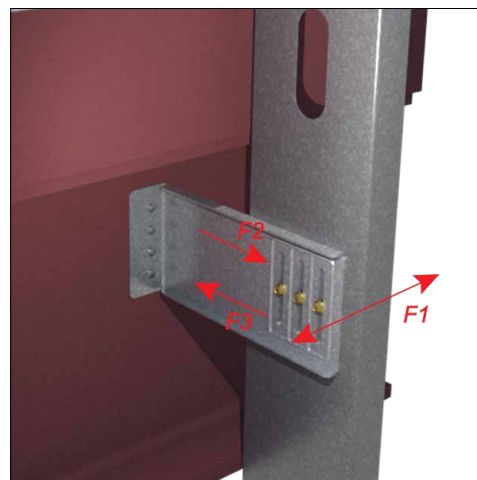
- 1 Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20 and ICC-ES AC261.
- 2 Extended FastClip attachment to structure designed by others. Listed capacities are applicable for Extended FastClip to stud only (framing connection).
- 3 Proprietary Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities applicable for screws centered and off-centered/offset Extended FastClip slots for framing connection.
- 4 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.
- 5 The Proprietary Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- 6 ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service and strength.
- 7 It is the responsibility of the design professional to detail the project drawings for proper Extended FastClip installation.
- 8 Other framing members may be used with these clips; however, it is the responsibility of the design professional to verify the framing members' capacities and potential failure modes.



**FRAMING CENTERED
CONNECTION**



**FRAMING OFFSET
CONNECTION**



ATTACHMENT TO STRUCTURE: WELD TO 3/16" STEEL

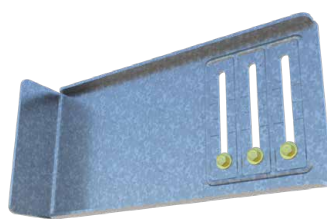
Clip Designation	Stud Thickness / Yield Strength mils (ga) ksi	Max. Standoff (in)	Mechanically Anchored to Structure	Load Capacities (lbs) / Clip										
				In-Plane (F1)			Tension (F2)			Compression (F3)				
				Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load
FCEC6-68	33 (20) 33	2-1/2	(2) 1" Welds along back of short leg of short leg (each weld equally distanced from center of clip)	280	95	155	—	1815	610	910	—	1770	610	910
	43 (18) 33			415	140	215	—	2265	780	1245	—	2585	905	1360
	54 (16) 50			690	240	385	—	3140	1080	1730	—	3325	1705	2730
	68 (14) 50			690	250	405	—	4060	1395	2235	—	3740	1920	3075
	97 (12) 50			690	250	405	—	4200	1445	2315	—	3740	1920	3075
FCEC8-68	33 (20) 33	4-1/2		275	95	150	—	1815	610	910	—	1825	610	910
	43 (18) 33			355	120	195	—	2375	815	1305	—	2565	905	1360
	54 (16) 50			415	250	370	—	3155	1085	1740	—	3205	1645	2635
	68 (14) 50			415	250	370	—	4360	1500	2400	—	3555	1825	2925
	97 (12) 50			415	250	370	—	4420	1520	2435	—	3555	1825	2925
FCEC10-68	33 (20) 33	6-1/2		295	110	165	—	1825	610	910	—	1715	610	910
	43 (18) 33			295	145	215	—	2395	825	1320	—	2595	905	1360
	54 (16) 50			295	175	265	—	3330	1145	1835	—	3210	1650	2640
	68 (14) 50			295	175	265	—	4165	1435	2295	—	3505	1800	2880
	97 (12) 50			295	175	265	—	4455	1535	2455	—	3505	1800	2880
FCEC12-68	33 (20) 33	8-1/2		230	110	165	—	1775	610	910	—	1825	610	910
	43 (18) 33			230	140	205	—	2290	790	1260	—	2715	905	1360
	54 (16) 50			230	140	205	—	3265	1125	1800	—	3190	1640	2620
	68 (14) 50			230	140	205	—	4165	1435	2295	—	3440	1770	2830
	97 (12) 50			230	140	205	—	4200	1445	2315	—	3440	1770	2830

Notes:

- 1 Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20 and ICC-ES AC261.
- 2 Tabulated load capacities are based on the following considerations:
 - a. Framing Connection: Proprietary Deflection Screws (0.25" dia)
 - b. Connection to Structure: (2) 1" long fillet weld equally spaced on back (bend) of the structural connection leg for FCEC to 3/16" thick ASTM A36 Steel.
 - c. Listed capacities have not been increased for wind, seismic, or other factors.
 - d. E70XX (min) electrode Weld.
- 3 ASD and LRFD loads are based on nominal capacities only. Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.
- 4 Proprietary Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities applicable for screws centered and off-centered/offset Extended FastClip slots for framing connection.
- 5 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.
- 6 The Proprietary Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- 7 It is the responsibility of the design professional to detail the project drawings for proper Extended FastClip installation.



**FRAMING CENTERED
CONNECTION**



**FRAMING OFFSET
CONNECTION**



Extended FastClip™ Slide Clip - 14ga

ATTACHMENT TO STRUCTURE: #12 SCREWS TO 3/16" STEEL

Clip Designation	Stud Thickness/ Yield Strength mils (ga) ksi	Max. Standoff (in)	Mechanically Anchored to Structure	Load Capacities (lbs) / Clip										
				In-Plane (F1)			Tension (F2)				Compression (F3)			
				Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load
FCEC6-68	33 (20) 33	2-1/2	2	280	95	155	770	1815	610	910	1770	1770	610	910
			3	280	95	155	770	1815	610	910	1770	1770	610	910
			4	280	95	155	770	1815	610	910	1770	1770	610	910
	43 (18) 33		2	415	140	215	840	1890	630	945	2325	2325	775	1165
			3	415	140	215	840	2265	780	1180	2535	2585	905	1360
			4	415	140	215	840	2265	780	1245	2535	2585	905	1360
	54 (16) 50		2	690	240	385	840	1890	630	945	2325	2325	775	1165
			3	690	240	385	840	2365	790	1180	3100	3325	1165	1745
			4	690	240	385	840	2700	900	1350	3100	3325	1550	2325
	68 (14) 50		2	690	250	405	855	1890	630	945	2325	2325	775	1165
			3	690	250	405	855	2365	790	1180	3255	3490	1165	1745
			4	690	250	405	855	2700	900	1350	3255	3740	1550	2325
97 (12) 50	2	690	250	405	905	1890	630	945	2325	2325	775	1165		
	3	690	250	405	905	2365	790	1180	3255	3490	1165	1745		
	4	690	250	405	905	2700	900	1350	3255	3740	1550	2325		
FCEC8-68	33 (20) 33	4-1/2	2	275	95	150	925	1815	610	910	1825	1825	610	910
			3	275	95	150	925	1815	610	910	1825	1825	610	910
			4	275	95	150	925	1815	610	910	1825	1825	610	910
	43 (18) 33		2	355	120	195	960	1890	630	945	2325	2325	775	1165
			3	355	120	195	960	2365	790	1180	2350	2565	905	1360
			4	355	120	195	960	2375	815	1305	2350	2565	905	1360
	54 (16) 50		2	415	250	370	995	1890	630	945	2325	2325	775	1165
			3	415	250	370	995	2365	790	1180	2940	3205	1165	1745
			4	415	250	370	995	2700	900	1350	2940	3205	1550	2325
	68 (14) 50		2	415	250	370	995	1890	630	945	2325	2325	775	1165
			3	415	250	370	995	2365	790	1180	3360	3490	1165	1745
			4	415	250	370	995	2700	900	1350	3360	3555	1550	2325
97 (12) 50	2	415	250	370	1035	1890	630	945	2325	2325	775	1165		
	3	415	250	370	1035	2365	790	1180	3455	3490	1165	1745		
	4	415	250	370	1035	2700	900	1350	3455	3555	1550	2325		
FCEC10-68	33 (20) 33	6-1/2	2	295	110	165	905	1825	610	910	1715	1715	610	910
			3	295	110	165	905	1825	610	910	1715	1715	610	910
			4	295	110	165	905	1825	610	910	1715	1715	610	910
	43 (18) 33		2	295	145	215	905	1890	630	945	2325	2325	775	1165
			3	295	145	215	905	2365	790	1180	2560	2595	905	1360
			4	295	145	215	905	2395	825	1320	2560	2595	905	1360
	54 (16) 50		2	295	175	265	905	1890	630	945	2325	2325	775	1165
			3	295	175	265	905	2365	790	1180	3210	3210	1165	1745
			4	295	175	265	905	2700	900	1350	3210	3210	1550	2325
	68 (14) 50		2	295	175	265	905	1890	630	945	2325	2325	775	1165
			3	295	175	265	905	2365	790	1180	3415	3490	1165	1745
			4	295	175	265	905	2700	900	1350	3415	3505	1550	2325
97 (12) 50	2	295	175	265	950	1890	630	945	2325	2325	775	1165		
	3	295	175	265	950	2365	790	1180	3490	3490	1165	1745		
	4	295	175	265	950	2700	900	1350	3495	3505	1550	2325		
FCEC12-68	33 (20) 33	8-1/2	2	230	110	165	805	1775	610	910	1825	1825	610	910
			3	230	110	165	805	1775	610	910	1825	1825	610	910
			4	230	110	165	805	1775	610	910	1825	1825	610	910
	43 (18) 33		2	230	140	205	880	1890	630	945	2325	2325	775	1165
			3	230	140	205	880	2290	790	1180	2685	2715	905	1360
			4	230	140	205	880	2290	790	1260	2685	2715	905	1360
	54 (16) 50		2	230	140	205	935	1890	630	945	2325	2325	775	1165
			3	230	140	205	935	2365	790	1180	3070	3190	1165	1745
			4	230	140	205	935	2700	900	1350	3070	3190	1550	2325
	68 (14) 50		2	230	140	205	935	1890	630	945	2325	2325	775	1165
			3	230	140	205	935	2365	790	1180	3365	3440	1165	1745
			4	230	140	205	935	2700	900	1350	3365	3440	1550	2325
97 (12) 50	2	230	140	205	935	1890	630	945	2325	2325	775	1165		
	3	230	140	205	935	2365	790	1180	3415	3440	1165	1745		
	4	230	140	205	935	2700	900	1350	3415	3440	1550	2325		

Notes:

1 Listed capacities are in accordance with provisions of AISI S100-16 (R2020/ S2-20 and ICC-ES AC261.

2 Tabulated load capacities are based on the following considerations:

a. Framing Connection: Proprietary Deflection Screws (0.25" dia)

b. Connection to Structure: #12 HWH Fasteners connected to 3/16" thick ASTM A36 Steel (see illustrations for base fastener locations)

c. Other fasteners may be used to achieve full clip capacity but must be designed separately.

d. Listed capacities have not been increased for wind, seismic, or other factors.

3 ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service and strength.

4 Proprietary Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities applicable for screws centered and off-centered/offset Extended FastClip slots for framing connection.

5 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.

6 The #12 HWH Fasteners shall have a minimum nominal shear capacity of 2000lbs and minimum nominal tension capacity of 2778lbs according to ESR-1976 and Manufacturer Limits.

7 The Proprietary Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.

8 Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.

9 It is the responsibility of the design professional to detail the project drawings for proper Extended FastClip installation.

ATTACHMENT TO STRUCTURE: 0.157" HILTI X-U PINS TO 3/16" STEEL

Clip Designation	Stud Thickness/ Yield Strength mils (ga) ksi	Max Standoff (in)	Mechanically Anchored to Astructure	Load Capacities (lbs) / Clip										
				In-Plane (F1)			Tension (F2)				Compression (F3)			
				Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load
FCEC6-68	33 (20) 33	2-1/2	2	280	95	155	770	1790	595	895	1770	1770	610	910
			3	280	95	155	770	1815	610	910	1770	1770	610	910
			4	280	95	155	770	1815	610	910	1770	1770	610	910
	43 (18) 33		2	415	140	215	840	1790	595	895	2240	2240	745	1120
			3	415	140	215	840	2240	745	1120	2535	2585	905	1360
			4	415	140	215	840	2265	780	1245	2535	2585	905	1360
	54 (16) 50		2	690	240	385	840	1790	595	895	2240	2240	745	1120
			3	690	240	385	840	2240	745	1120	3100	3325	1120	1680
			4	690	240	385	840	2560	855	1280	3100	3325	1490	2240
	68 (14) 50		2	690	250	405	855	1790	595	895	2240	2240	745	1120
			3	690	250	405	855	2240	745	1120	3255	3360	1120	1680
			4	690	250	405	855	2560	855	1280	3255	3740	1490	2240
	97 (12) 50		2	690	250	405	905	1790	595	895	2240	2240	745	1120
			3	690	250	405	905	2240	745	1120	3255	3360	1120	1680
			4	690	250	405	905	2560	855	1280	3255	3740	1490	2240
FCEC8-68	33 (20) 33	4-1/2	2	275	95	150	925	1790	595	895	1825	1825	610	910
			3	275	95	150	925	1815	610	910	1825	1825	610	910
			4	275	95	150	925	1815	610	910	1825	1825	610	910
	43 (18) 33		2	355	120	195	960	1790	595	895	2240	2240	745	1120
			3	355	120	195	960	2240	745	1120	2350	2565	905	1360
			4	355	120	195	960	2375	815	1280	2350	2565	905	1360
	54 (16) 50		2	415	250	370	995	1790	595	895	2240	2240	745	1120
			3	415	250	370	995	2240	745	1120	2940	3205	1120	1680
			4	415	250	370	995	2560	855	1280	2940	3205	1490	2240
	68 (14) 50		2	415	250	370	995	1790	595	895	2240	2240	745	1120
			3	415	250	370	995	2240	745	1120	3360	3360	1120	1680
			4	415	250	370	995	2560	855	1280	3360	3555	1490	2240
	97 (12) 50		2	415	250	370	1035	1790	595	895	2240	2240	745	1120
			3	415	250	370	1035	2240	745	1120	3360	3360	1120	1680
			4	415	250	370	1035	2560	855	1280	3455	3555	1490	2240
FCEC10-68	33 (20) 33	6-1/2	2	295	110	165	905	1790	595	895	1715	1715	610	910
			3	295	110	165	905	1825	610	910	1715	1715	610	910
			4	295	110	165	905	1825	610	910	1715	1715	610	910
	43 (18) 33		2	295	145	215	905	1790	595	895	2240	2240	745	1120
			3	295	145	215	905	2240	745	1120	2560	2595	905	1360
			4	295	145	215	905	2395	825	1280	2560	2595	905	1360
	54 (16) 50		2	295	175	265	905	1790	595	895	2240	2240	745	1120
			3	295	175	265	905	2240	745	1120	3210	3210	1120	1680
			4	295	175	265	905	2560	855	1280	3210	3210	1490	2240
	68 (14) 50		2	295	175	265	905	1790	595	895	2240	2240	745	1120
			3	295	175	265	905	2240	745	1120	3360	3360	1120	1680
			4	295	175	265	905	2560	855	1280	3415	3505	1490	2240
	97 (12) 50		2	295	175	265	950	1790	595	895	2240	2240	745	1120
			3	295	175	265	950	2240	745	1120	3360	3360	1120	1680
			4	295	175	265	950	2560	855	1280	3495	3505	1490	2240
FCEC12-68	33 (20) 33	8-1/2	2	230	110	165	805	1775	595	895	1825	1825	610	910
			3	230	110	165	805	1775	610	910	1825	1825	610	910
			4	230	110	165	805	1775	610	910	1825	1825	610	910
	43 (18) 33		2	230	140	205	880	1790	595	895	2240	2240	745	1120
			3	230	140	205	880	2240	745	1120	2685	2715	905	1360
			4	230	140	205	880	2290	790	1260	2685	2715	905	1360
	54 (16) 50		2	230	140	205	935	1790	595	895	2240	2240	745	1120
			3	230	140	205	935	2240	745	1120	3070	3190	1120	1680
			4	230	140	205	935	2560	855	1280	3070	3190	1490	2240
	68 (14) 50		2	230	140	205	935	1790	595	895	2240	2240	745	1120
			3	230	140	205	935	2240	745	1120	3360	3360	1120	1680
			4	230	140	205	935	2560	855	1280	3365	3440	1490	2240
	97 (12) 50		2	230	140	205	935	1790	595	895	2240	2240	745	1120
			3	230	140	205	935	2240	745	1120	3360	3360	1120	1680
			4	230	140	205	935	2560	855	1280	3415	3440	1490	2240

Notes:

1 Listed Capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20, ICC-ES AC261 and ESR 2269.

2 Tabulated load capacities are based on the following considerations:

a. Framing Connection: Proprietary Deflection Screws (0.25" dia)

b. Connection to Structure: 0.157" Hilti X-U Pins connected to 3/16" thick ASTM A36 Steel (see illustrations for base fastener locations).

c. Other fasteners may be used to achieve full clip capacity but must be designed separately.

d. Listed capacities have not been increased for wind, seismic, or other factors.

3 ASD and LRFD loads are based on nominal capacities only. 1/8" service loads are listed in a separate column. Designer shall use governing loads based on 1/8" service and strength.

4 Proprietary Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes. Listed capacities applicable for screws centered and off-centered/offset Extended FastClip slots for framing connection.

5 The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100 and ESR2269.

6 The Proprietary Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.

7 The Hilti X-U Pin shall have a minimum nominal shear capacity of 3939lbs and minimum nominal tension capacity of 2872lbs according to Hilti Fastening Technical Guide, Edition 2024.

8 Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.

9 It is the responsibility of the design professional to detail the project drawings for proper Extended FastClip installation.