

Fast Strut™**Curtain Wall/Bypass****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. Provides vertical movement up to 2-1/2" (1-1/4" up and 1-1/4" down). Fast Strut products are available in standard lengths of 12-1/4" and 15-1/4" and extended 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. FS12 and FS15 are embossed with fastening patterns embossed with fastening patterns to ensure accurate placement of fasteners.

MATERIAL SPECIFICATIONS

Gauge: 14 gauge (68mils)

Design Thickness: 0.0713 inches

Coating: G90

Yield Strength: 50ksi

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"

CODE APPROVALS AND PERFORMANCE STANDARDS

IAPMO ER-729

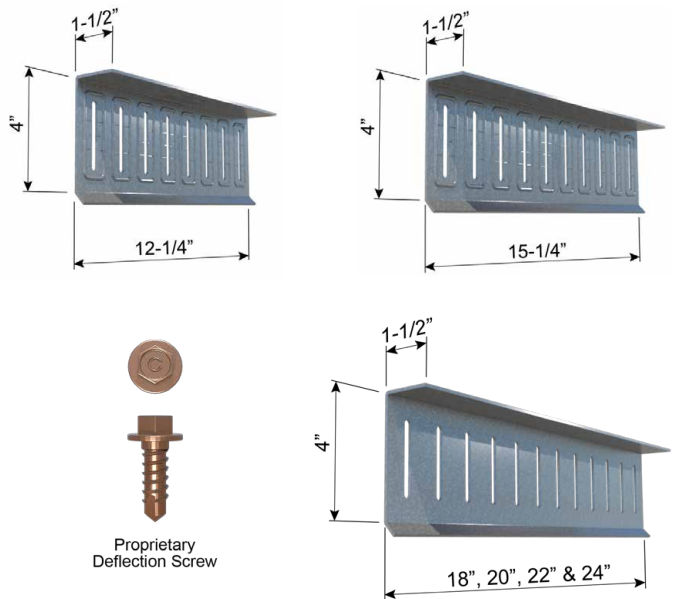
AISI S100

ALTERNATIVE PRODUCTS

FastClip™ Slide Clip

INSTALLATION

Connections to the building can be made with screws, powder-actuated fasteners, drill-in concrete anchors or welding. Mechanical fasteners shall be equally spaced along the scored line of the 1-1/2" flange. The Fast Strut must engage the building structure a minimum of 4". When using the tabulated allowable loads indicated in the table on the opposite page, connections to the building structure must be made according to the notes. Two or three Proprietary Deflection Screws are used to attach the Fast Strut to the cold-formed steel framing. Screws shall be driven through the slotted holes and positioned to allow for the appropriate building deflection. Refer to tables for number of fasteners.

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

Clip Designation	Thickness		Size (in)	Packaging Pcs./Carton
	mils (ga)	Design Thickness (in)		
FS12	68 (14)	0.0713	4 x 1-1/2 x 12-1/4	10
FS15	68 (14)	0.0713	4 x 1-1/2 x 15-1/4	10
FS18	68 (14)	0.0713	4 x 1-1/2 x 18	10
FS20	68 (14)	0.0713	4 x 1-1/2 x 20	10
FS22	68 (14)	0.0713	4 x 1-1/2 x 22	10
FS24	68 (14)	0.0713	4 x 1-1/2 x 24	10
Custom lengths	68 (14)	0.0713	per customer specs	10

Includes 55 deflection screws per carton.
U.S. Patent No. 6,688,069



FRAMING OFFSET CONNECTION



FRAMING CENTERED CONNECTION

ATTACHMENT TO STRUCTURE: DESIGNED BY OTHERS

Clip Designation	Framing Member Spec			Load Capacities (lbs) / Clip										
	Stud Depth (in)	Proprietary Deflection Screws	Stud 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
FS12	3-5/8	2	33 (20)	355	120	195	1345	1470	505	810	1170	1310	450	720
			43 (18)	565	195	290	1390	1760	605	970	1480	1780	610	980
			54 (16)	760	255	380	1730	2370	815	1305	1755	2445	840	1345
			68 (14)	1000	335	500	1825	3145	1080	1730	2135	3435	1180	1890
			97 (12)	1280	440	705	1910	3530	1215	1945	2470	4300	1480	2370
	6	3	33 (20)	325	110	180	1140	2160	745	1190	1665	2280	785	1255
			43 (18)	500	170	275	1510	2625	905	1445	2005	2690	925	1480
			54 (16)	760	255	380	2050	3810	1310	2100	2380	3980	1370	2190
			68 (14)	1000	335	500	2145	4635	1595	2555	2810	4815	1660	2650
			97 (12)	1495	505	760	2220	5475	1885	2915	3370	5830	1945	2915
FS15	6	3	33 (20)	385	135	215	1815	2170	745	1195	2070	2215	760	1220
			43 (18)	580	195	290	1945	2575	885	1415	2420	2745	945	1510
			54 (16)	760	255	380	2315	3905	1345	2150	2670	3860	1330	2125
			68 (14)	1000	335	500	2255	4600	1585	2530	3280	4765	1640	2625
			97 (12)	1515	505	760	2490	5590	1925	2915	3735	5830	1945	2915
	8	3	33 (20)	385	135	215	1750	2080	715	1145	2025	2140	735	1180
			43 (18)	580	195	290	2025	2625	905	1445	2420	2750	945	1515
			54 (16)	760	255	380	2405	3910	1345	2150	3105	4110	1415	2265
			68 (14)	1000	335	500	2435	4685	1615	2580	3330	4875	1680	2685
			97 (12)	1515	505	760	2385	5185	1785	2855	3710	5815	1945	2915
FS18	6	3	33 (20)	330	115	180	1930	2115	730	1165	2205	2125	730	1170
			43 (18)	580	195	290	2055	2505	860	1380	2685	2685	925	1480
			54 (16)	760	255	380	2345	3810	1310	2095	3040	4030	1385	2220
			68 (14)	1000	335	500	2835	4420	1520	2435	3940	4815	1655	2650
			97 (12)	1515	505	760	2935	5830	1945	2915	4430	5830	1945	2915
	8	3	33 (20)	330	115	180	1790	2055	705	1130	2150	2110	725	1165
			43 (18)	580	195	290	2025	2590	890	1425	2675	2680	925	1475
			54 (16)	760	255	380	2375	3855	1325	2120	3245	3995	1375	2200
			68 (14)	1000	335	500	2670	4725	1625	2600	3615	4835	1665	2660
			97 (12)	1515	505	760	3010	5650	1945	2915	4140	5830	1945	2915
FS20	6	3	33 (20)	362	123	192	1943	2133	735	1175	2087	2150	738	1183
			43 (18)	553	195	290	2085	2518	865	1387	2470	2660	917	1467
			54 (16)	737	255	380	2532	3827	1317	2105	2992	3948	1358	2175
			68 (14)	962	335	500	2893	4427	1523	2438	3773	4757	1752	2738
			97 (12)	1350	505	760	3075	5830	1945	2915	4340	5507	1945	2915
	8	3	33 (20)	362	123	192	1890	2068	710	1138	2067	2088	718	1152
			43 (18)	553	195	290	2142	2597	893	1428	2567	2630	907	1448
			54 (16)	737	255	380	2462	3835	1318	2110	3125	3963	1363	2182
			68 (14)	962	335	500	2768	4675	1608	2573	3678	4823	1758	2745
			97 (12)	1350	505	760	3070	5665	1945	2915	4127	5490	1945	2915
FS22	6	3	33 (20)	393	132	203	1957	2152	740	1185	1968	2175	747	1197
			43 (18)	527	195	290	2115	2532	870	1393	2255	2635	908	1453
			54 (16)	713	255	380	2718	3843	1323	2115	2943	3867	1332	2130
			68 (14)	923	335	500	2952	4433	1527	2442	3607	4698	1848	2827
			97 (12)	1185	505	760	3215	5830	1945	2915	4250	5183	1945	2915
	8	3	33 (20)	393	132	203	1990	2082	715	1147	1983	2067	712	1138
			43 (18)	527	195	290	2258	2603	897	1432	2458	2580	888	1422
			54 (16)	713	255	380	2548	3815	1312	2100	3005	3932	1352	2163
			68 (14)	923	335	500	2867	4625	1592	2547	3742	4812	1852	2830
			97 (12)	1185	505	760	3130	5680	1945	2915	4113	5150	1945	2915
FS24	6	3	33 (20)	425	140	215	1970	2170	745	1195	1850	2200	755	1210
			43 (18)	500	195	290	2145	2545	875	1400	2040	2610	900	1440
			54 (16)	690	255	380	2905	3860	1330	2125	2895	3785	1305	2085
			68 (14)	885	335	500	3010	4440	1530	2445	3440	4640	1945	2915
			97 (12)	1020	505	760	3355	5830	1945	2915	4160	4860	1945	2915
	8	3	33 (20)	425	140	215	2090	2095	720	1155	1900	2045	705	1125
			43 (18)	500	195	290	2375	2610	900	1435	2350	2530	870	1395
			54 (16)	690	255	380	2635	3795	1305	2090	2885	3900	1340	2145
			68 (14)	885	335	500	2965	4575	1575	2520	3805	4800	1945	2915
			97 (12)	1020	505	760	3190	5695	1945	2915	4100	4810	1945	2915



TYPICAL CONSTRUCTION APPLICATION

Notes:

- Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20 and ICC-ES AC261.
- Fast Strut attachment to structure designed by others. Listed capacities are applicable for Fast Strut to stud only (framing connection).
- 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 Fast Strut clip slots for framing connection.
- The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.
- The Proprietary Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- 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.
- It is the responsibility of the design professional to detail the project drawings for proper Fast Strut installation.
- 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.

Fast Strut™

Curtain Wall/Bypass

ATTACHMENT TO STRUCTURE: WELD TO 3/16" STEEL

Clip Designation	Framing Member Spec			Load Capacities (lbs) / Clip													
	Stud Depth (in)	Proprietary Deflection Screws	Stud 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			
FS12	3-5/8	2	33 (20)	355	120	195	1345	1470	505	810	1170	1310	450	720			
			43 (18)	565	195	290	1390	1760	605	970	1480	1780	610	980			
			54 (16)	760	255	380	1730	2370	815	1305	1755	2445	840	1345			
			68 (14)	1000	335	500	1825	3145	1080	1730	2135	3435	1180	1890			
	6	3	97 (12)	1150	440	705	1910	3530	1215	1945	2470	4300	1480	2370			
			33 (20)	325	110	180	1140	2160	745	1190	1665	2280	785	1255			
			43 (18)	500	170	275	1510	2625	905	1445	2005	2690	925	1480			
			54 (16)	760	255	380	2050	3810	1310	2100	2380	3980	1370	2190			
FS15	6	3	68 (14)	1000	335	500	2145	4635	1595	2555	2810	4815	1660	2650			
			97 (12)	1150	505	760	2220	5035	1885	3015	3370	5035	2160	3460			
			8	3	33 (20)	385	135	215	1815	2170	745	1195	2070	2215	760	1220	
					43 (18)	580	195	290	1945	2575	885	1415	2420	2745	945	1510	
	54 (16)	760			255	380	2315	3905	1345	2150	2670	3860	1330	2125			
	68 (14)	940			335	500	2255	4600	1585	2530	3280	4765	1640	2625			
	FS18	6	3	97 (12)	940	470	705	2490	5035	1925	3080	3735	5035	2520	3775		
				33 (20)	385	135	215	1750	2080	715	1145	2025	2140	735	1180		
43 (18)				580	195	290	2025	2625	905	1445	2420	2750	945	1515			
54 (16)				760	255	380	2405	3910	1345	2150	3105	4110	1415	2265			
8		3	68 (14)	940	335	500	2435	4685	1615	2580	3330	4875	1680	2685			
			97 (12)	940	470	705	2385	5035	1785	2855	3710	5035	2000	3205			
			FS20	6	3	33 (20)	330	115	180	1930	2115	730	1165	2125	2125	730	1170
						43 (18)	580	195	290	2055	2505	860	1380	2685	2685	925	1480
54 (16)	760	255				380	2345	3810	1310	2095	3040	4030	1385	2220			
68 (14)	790	335				500	2835	4420	1520	2435	3940	4815	1655	2650			
8	3	97 (12)		790	395	595	2935	5035	2085	3335	4430	5035	2520	3775			
		33 (20)		330	115	180	1790	2055	705	1130	2110	2110	725	1165			
		43 (18)		580	195	290	2025	2590	890	1425	2675	2680	925	1475			
		54 (16)		760	255	380	2375	3855	1325	2120	3245	3995	1375	2200			
FS22	6	3	68 (14)	790	335	500	2670	4725	1625	2600	3615	4835	1665	2660			
			97 (12)	790	395	595	3010	5035	1945	3110	4140	5035	2520	3775			
			8	3	33 (20)	360	125	190	1945	2135	735	1175	2035	2150	740	1185	
					43 (18)	555	195	290	2085	2520	865	1385	2470	2660	915	1465	
	54 (16)	705			255	380	2530	3825	1315	2105	2990	3950	1360	2175			
	68 (14)	715			325	485	2895	4425	1525	2440	3775	4755	1900	3025			
	FS24	6	3	97 (12)	715	360	535	3075	5035	2070	3310	4340	4975	2510	3775		
				33 (20)	360	125	190	1890	2070	710	1140	2040	2090	720	1150		
43 (18)				555	195	290	2140	2595	895	1430	2565	2630	905	1450			
54 (16)				705	255	380	2460	3835	1320	2110	3125	3965	1365	2180			
8		3	68 (14)	715	325	485	2770	4675	1610	2575	3680	4825	1930	3030			
			97 (12)	715	360	535	3070	5035	1950	3120	4125	4960	2505	3775			
			FS22	6	3	33 (20)	395	130	205	1955	2150	740	1185	1940	2175	745	1195
						43 (18)	525	195	290	2115	2530	870	1395	2255	2635	910	1455
54 (16)	655	255				380	2720	3845	1325	2115	2945	3865	1330	2130			
68 (14)	655	310				465	2950	4435	1525	2440	3605	4700	2140	3400			
8	3	97 (12)		655	325	490	3215	5035	2050	3280	4250	4920	2505	3775			
		33 (20)		395	130	205	1990	2080	715	1145	1970	2065	710	1140			
		43 (18)		525	195	290	2260	2605	895	1430	2460	2580	890	1420			
		54 (16)		655	255	380	2550	3815	1310	2100	3005	3930	1350	2165			
FS24	6	3	68 (14)	655	310	465	2865	4625	1590	2545	3740	4810	2200	3405			
			97 (12)	655	325	490	3130	5035	1955	3125	4115	4885	2485	3775			
			8	3	33 (20)	425	140	215	1970	2170	745	1195	1850	2200	755	1210	
					43 (18)	500	195	290	2145	2545	875	1400	2040	2610	900	1440	
	54 (16)	600			255	380	2905	3860	1330	2125	2895	3785	1305	2085			
	68 (14)	600			300	450	3010	4440	1530	2445	3440	4640	2385	3775			
	8	3	97 (12)	600	300	450	3355	5035	2035	3255	4160	4860	2495	3775			
			33 (20)	425	140	215	2090	2095	720	1155	1900	2045	705	1125			
43 (18)			500	195	290	2375	2610	900	1435	2350	2530	870	1395				
54 (16)			600	255	380	2635	3795	1305	2090	2885	3900	1340	2145				
8	3	68 (14)	600	300	450	2965	4575	1575	2520	3805	4800	2465	3775				
		97 (12)	600	300	450	3190	5035	1960	3135	4100	4810	2470	3775				

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:
 - Framing Connection: Proprietary Deflection Screws (0.25" dia)
 - Connection to Structure: 4-in long Fillet Welds along each edge of the 1-1/2" Fast Strut Leg (structure) connected to 3/16" thick ASTM A36 Steel.
 - Requires a minimum of 4-in of structure engagement
 - Listed capacities have not been increased for wind, seismic, or other factors
 - 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 Fast Strut clip 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 Fast Strut 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.

ATTACHMENT TO STRUCTURE: (2) 1/4" Φ HILTI KH-EZ ANCHORS

Clip Designation	Framing Member Spec			Load Capacities (lbs) / Clip										
	Stud Depth (in)	Proprietary Deflection Screws	Stud 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
FS12	3-5/8	2	33 (20)	355	120	195	775	775	350	505	775	775	350	505
			43 (18)	395	195	280	775	775	350	505	775	775	350	505
			54 (16)	395	195	280	775	775	350	505	775	775	350	505
			68 (14)	395	195	280	775	775	350	505	775	775	350	505
	6	3	33 (20)	325	110	180	775	775	350	505	775	775	350	505
			43 (18)	395	170	275	775	775	350	505	775	775	350	505
			54 (16)	395	195	280	775	775	350	505	775	775	350	505
			68 (14)	395	195	280	775	775	350	505	775	775	350	505
FS15	6	3	33 (20)	345	135	215	775	775	350	505	775	775	350	505
			43 (18)	345	165	240	775	775	350	505	775	775	350	505
			54 (16)	345	165	240	775	775	350	505	775	775	350	505
			68 (14)	345	165	240	775	775	350	505	775	775	350	505
	8	3	33 (20)	345	135	215	775	775	350	505	775	775	350	505
			43 (18)	345	165	240	775	775	350	505	775	775	350	505
			54 (16)	345	165	240	775	775	350	505	775	775	350	505
			68 (14)	345	165	240	775	775	350	505	775	775	350	505
FS18	6	3	33 (20)	305	115	180	775	775	350	505	775	775	350	505
			43 (18)	305	145	210	775	775	350	505	775	775	350	505
			54 (16)	305	145	210	775	775	350	505	775	775	350	505
			68 (14)	305	145	210	775	775	350	505	775	775	350	505
	8	3	33 (20)	305	115	180	775	775	350	505	775	775	350	505
			43 (18)	305	145	210	775	775	350	505	775	775	350	505
			54 (16)	305	145	210	775	775	350	505	775	775	350	505
			68 (14)	305	145	210	775	775	350	505	775	775	350	505
FS20	6	3	33 (20)	280	115	175	775	775	350	505	775	775	350	505
			43 (18)	280	135	195	775	775	350	505	775	775	350	505
			54 (16)	280	135	195	775	775	350	505	775	775	350	505
			68 (14)	280	135	195	775	775	350	505	775	775	350	505
	8	3	33 (20)	280	115	175	775	775	350	505	775	775	350	505
			43 (18)	280	135	195	775	775	350	505	775	775	350	505
			54 (16)	280	135	195	775	775	350	505	775	775	350	505
			68 (14)	280	135	195	775	775	350	505	775	775	350	505
FS22	6	3	33 (20)	260	120	175	775	775	350	505	775	775	350	505
			43 (18)	260	125	185	775	775	350	505	775	775	350	505
			54 (16)	260	125	185	775	775	350	505	775	775	350	505
			68 (14)	260	125	185	775	775	350	505	775	775	350	505
	8	3	33 (20)	260	120	175	775	775	350	505	775	775	350	505
			43 (18)	260	125	185	775	775	350	505	775	775	350	505
			54 (16)	260	125	185	775	775	350	505	775	775	350	505
			68 (14)	260	125	185	775	775	350	505	775	775	350	505
FS24	6	3	33 (20)	245	120	170	775	775	350	505	775	775	350	505
			43 (18)	245	120	170	775	775	350	505	775	775	350	505
			54 (16)	245	120	170	775	775	350	505	775	775	350	505
			68 (14)	245	120	170	775	775	350	505	775	775	350	505
	8	3	33 (20)	245	120	170	775	775	350	505	775	775	350	505
			43 (18)	245	120	170	775	775	350	505	775	775	350	505
			54 (16)	245	120	170	775	775	350	505	775	775	350	505
			68 (14)	245	120	170	775	775	350	505	775	775	350	505

Notes:

- Listed capacities are in accordance with provisions of AISI S100-16(R2020)/S2-20, ICC-ES AC261 and ACI 318-19.
- Tabulated load capacities are based on the following considerations:
 - Framing Connection: Proprietary Deflection Screws (0.25" dia)
 - Connection to Structure: 2 x 1/4" Φ Hilti KH-EZ Anchors spaced 2-3/4" apart connected to minimum 3000psi Cracked Concrete. Minimum concrete thickness shall be 4-1/8", edge distance shall be 2".
 - Embedment to Concrete: Nominal embedment of 2-1/2" for 1/4" Φ KH-EZ anchor per manufacturer's recommendation.
 - Other fasteners/anchors may be used to achieve full clip capacity but must be designed separately.
 - Listed capacities have not been increased for wind, seismic, or other factors.
- 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.
- 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 Fast Strut clip slots for framing connection.
- The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100 and ESR3027.
- The Proprietary Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- The Hilti 1/4" Φ KH-EZ Anchor Bolt shall have a LRFD shear capacity of 1735lbs and LRFD tension capacity of 830lbs according to ESR 3027 and ACI 318-19.
- Anchor strength in concrete considerations per ACI 318-19 and ESR 3027
- Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.
- Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
- It is the responsibility of the design professional to detail the project drawings for proper Fast Strut installation.
- 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.

Fast Strut™

Curtain Wall/Bypass

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

Clip Designation	Framing Member Spec			No. of Base Connection Fasteners	Load Capacities (lbs) / Clip										
	Stud Depth (in)	Proprietary Deflection Screws	Stud 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
FS12	3-5/8	2	33 (20)	2	355	120	195	1345	1470	505	810	1170	1310	450	720
			3	355	120	195	1345	1470	505	810	1170	1310	450	720	
			43 (18)	2	460	155	230	1390	1760	605	970	1480	1780	610	980
			3	460	155	230	1390	1760	605	970	1480	1780	610	980	
			54 (16)	2	460	155	230	1730	2330	800	1205	1755	2330	800	1205
			3	460	155	230	1730	2370	815	1305	1755	2445	840	1345	
			68 (14)	2	460	155	230	1825	2330	800	1205	2135	2330	800	1205
			3	460	155	230	1825	3145	1080	1655	2135	3190	1105	1655	
	97 (12)	2	460	155	230	1910	2330	800	1205	2330	2330	800	1205		
	3	460	155	230	1910	3190	1105	1655	2470	3190	1105	1655			
	6	3	33 (20)	2	325	110	180	1140	2160	745	1190	1665	2280	785	1205
			3	325	110	180	1140	2160	745	1190	1665	2280	785	1255	
			43 (18)	2	460	155	230	1510	2330	800	1205	2005	2330	800	1205
			3	460	155	230	1510	2625	905	1445	2005	2690	925	1480	
			54 (16)	2	460	155	230	2050	2330	800	1205	2330	2330	800	1205
			3	460	155	230	2050	3190	1105	1655	2380	3190	1105	1655	
68 (14)			2	460	155	230	2145	2330	800	1205	2330	2330	800	1205	
3			460	155	230	2145	3190	1105	1655	2810	3190	1105	1655		
97 (12)	2	460	155	230	2220	2330	800	1205	2330	2330	800	1205			
3	460	155	230	2220	3190	1105	1655	3190	3190	1105	1655				
FS15	6	3	33 (20)	2	375	125	190	1815	2170	745	1195	2070	2215	760	1205
			3	375	125	190	1815	2170	745	1195	2070	2215	760	1220	
			43 (18)	2	375	125	190	1945	2330	800	1205	2330	2330	800	1205
			3	375	125	190	1945	2575	885	1415	2420	2745	945	1510	
			54 (16)	2	375	125	190	2315	2330	800	1205	2330	2330	800	1205
			3	375	125	190	2315	3190	1105	1655	2670	3190	1105	1655	
			68 (14)	2	375	125	190	2255	2330	800	1205	2330	2330	800	1205
			3	375	125	190	2255	3190	1105	1655	3190	3190	1105	1655	
	97 (12)	2	375	125	190	2330	2330	800	1205	2330	2330	800	1205		
	3	375	125	190	2490	3190	1105	1655	3190	3190	1105	1655			
	8	3	33 (20)	2	375	125	190	1750	2080	715	1145	2025	2140	735	1180
			3	375	125	190	1750	2080	715	1145	2025	2140	735	1180	
			43 (18)	2	375	125	190	2025	2330	800	1205	2330	2330	800	1205
			3	375	125	190	2025	2625	905	1445	2420	2750	945	1515	
			54 (16)	2	375	125	190	2330	2330	800	1205	2330	2330	800	1205
			3	375	125	190	2405	3190	1105	1655	3105	3190	1105	1655	
68 (14)			2	375	125	190	2330	2330	800	1205	2330	2330	800	1205	
3			375	125	190	2435	3190	1105	1655	3190	3190	1105	1655		
97 (12)	2	375	125	190	2330	2330	800	1205	2330	2330	800	1205			
3	375	125	190	2385	3190	1105	1655	3190	3190	1105	1655				
FS18	6	3	33 (20)	2	315	105	160	1930	2115	730	1165	2125	2125	730	1170
			3	315	105	160	1930	2115	730	1165	2125	2125	730	1170	
			43 (18)	2	315	105	160	2055	2330	800	1205	2330	2330	800	1205
			3	315	105	160	2055	2505	860	1380	2685	2685	925	1480	
			54 (16)	2	315	105	160	2330	2330	800	1205	2330	2330	800	1205
			3	315	105	160	2345	3190	1105	1655	3040	3190	1105	1655	
			68 (14)	2	315	105	160	2330	2330	800	1205	2330	2330	800	1205
			3	315	105	160	2835	3190	1105	1655	3190	3190	1105	1655	
	97 (12)	2	315	105	160	2330	2330	800	1205	2330	2330	800	1205		
	3	315	105	160	2935	3190	1105	1655	3190	3190	1105	1655			
	8	3	33 (20)	2	315	105	160	1790	2055	705	1130	2110	2110	725	1165
			3	315	105	160	1790	2055	705	1130	2110	2110	725	1165	
			43 (18)	2	315	105	160	2025	2330	800	1205	2330	2330	800	1205
			3	315	105	160	2025	2590	890	1425	2675	2680	925	1475	
			54 (16)	2	315	105	160	2330	2330	800	1205	2330	2330	800	1205
			3	315	105	160	2375	3190	1105	1655	3190	3190	1105	1655	
68 (14)			2	315	105	160	2330	2330	800	1205	2330	2330	800	1205	
3			315	105	160	2670	3190	1105	1655	3190	3190	1105	1655		
97 (12)	2	315	105	160	2330	2330	800	1205	2330	2330	800	1205			
3	315	105	160	3010	3190	1105	1655	3190	3190	1105	1655				

ATTACHMENT TO STRUCTURE: #12 SCREWS TO 3/16" STEEL (CONT'D)

Clip Designation	Framing Member Spec				Load Capacities (lbs) / Clip										
	Stud Depth (in)	Proprietary Deflection Screws	Stud Thickness (ga)	No. of Base Connection Fasteners	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
FS20	6	3	33 (20)	2	285	95	145	1945	2135	735	1175	2035	2150	740	1180
				3	285	95	145	1945	2135	735	1175	2035	2150	740	1185
			43 (18)	2	285	95	145	2085	2330	800	1205	2285	2330	800	1205
				3	285	95	145	2085	2520	865	1385	2470	2660	915	1465
			54 (16)	2	285	95	145	2330	2330	800	1205	2330	2330	800	1205
				3	285	95	145	2530	3190	1105	1655	2990	3190	1105	1655
			68 (14)	2	285	95	145	2330	2330	800	1205	2330	2330	800	1205
				3	285	95	145	2895	3190	1105	1655	3190	3190	1105	1655
			97 (12)	2	285	95	145	2330	2330	800	1205	2330	2330	800	1205
				3	285	95	145	3020	3190	1105	1655	3190	3190	1105	1655
	6	3	33 (20)	2	285	95	145	1890	2070	710	1140	2040	2090	720	1150
				3	285	95	145	1890	2070	710	1140	2040	2090	720	1150
			43 (18)	2	285	95	145	2140	2330	800	1205	2330	2330	800	1205
				3	285	95	145	2140	2595	895	1430	2565	2630	905	1450
			54 (16)	2	285	95	145	2330	2330	800	1205	2330	2330	800	1205
				3	285	95	145	2460	3190	1105	1655	3090	3190	1105	1655
			68 (14)	2	285	95	145	2330	2330	800	1205	2330	2330	800	1205
				3	285	95	145	2770	3190	1105	1655	3190	3190	1105	1655
			97 (12)	2	285	95	145	2330	2330	800	1205	2330	2330	800	1205
				3	285	95	145	3070	3190	1105	1655	3190	3190	1105	1655
FS22	6	3	33 (20)	2	260	85	130	1955	2150	740	1185	1940	2175	745	1195
				3	260	85	130	1955	2150	740	1185	1940	2175	745	1195
			43 (18)	2	260	85	130	2115	2330	800	1205	2160	2330	800	1205
				3	260	85	130	2115	2530	870	1395	2255	2635	910	1455
			54 (16)	2	260	85	130	2330	2330	800	1205	2330	2330	800	1205
				3	260	85	130	2720	3190	1105	1655	2945	3190	1105	1655
			68 (14)	2	260	85	130	2330	2330	800	1205	2330	2330	800	1205
				3	260	85	130	2950	3190	1105	1655	3190	3190	1105	1655
			97 (12)	2	260	85	130	2330	2330	800	1205	2330	2330	800	1205
				3	260	85	130	3105	3190	1105	1655	3190	3190	1105	1655
	8	3	33 (20)	2	260	85	130	1990	2080	715	1145	1970	2065	710	1140
				3	260	85	130	1990	2080	715	1145	1970	2065	710	1140
			43 (18)	2	260	85	130	2260	2330	800	1205	2330	2330	800	1205
				3	260	85	130	2260	2605	895	1430	2460	2580	890	1420
			54 (16)	2	260	85	130	2330	2330	800	1205	2330	2330	800	1205
				3	260	85	130	2550	3190	1105	1655	2985	3190	1105	1655
			68 (14)	2	260	85	130	2330	2330	800	1205	2330	2330	800	1205
				3	260	85	130	2865	3190	1105	1655	3190	3190	1105	1655
			97 (12)	2	260	85	130	2330	2330	800	1205	2330	2330	800	1205
				3	260	85	130	3130	3190	1105	1655	3190	3190	1105	1655
FS24	6	3	33 (20)	2	240	80	120	1970	2170	745	1195	1850	2200	755	1205
				3	240	80	120	1970	2170	745	1195	1850	2200	755	1210
			43 (18)	2	240	80	120	2145	2330	800	1205	2040	2330	800	1205
				3	240	80	120	2145	2545	875	1400	2040	2610	900	1440
			54 (16)	2	240	80	120	2330	2330	800	1205	2330	2330	800	1205
				3	240	80	120	2905	3190	1105	1655	2895	3190	1105	1655
			68 (14)	2	240	80	120	2330	2330	800	1205	2330	2330	800	1205
				3	240	80	120	3010	3190	1105	1655	3190	3190	1105	1655
			97 (12)	2	240	80	120	2330	2330	800	1205	2330	2330	800	1205
				3	240	80	120	3190	3190	1105	1655	3190	3190	1105	1655
	8	3	33 (20)	2	240	80	120	2090	2095	720	1155	1900	2045	705	1125
				3	240	80	120	2090	2095	720	1155	1900	2045	705	1125
			43 (18)	2	240	80	120	2330	2330	800	1205	2330	2330	800	1205
				3	240	80	120	2375	2610	900	1435	2350	2530	870	1395
			54 (16)	2	240	80	120	2330	2330	800	1205	2330	2330	800	1205
				3	240	80	120	2635	3190	1105	1655	2885	3190	1105	1655
			68 (14)	2	240	80	120	2330	2330	800	1205	2330	2330	800	1205
				3	240	80	120	2965	3190	1105	1655	3190	3190	1105	1655
			97 (12)	2	240	80	120	2330	2330	800	1205	2330	2330	800	1205
				3	240	80	120	3190	3190	1105	1655	3190	3190	1105	1655



TYPICAL CONSTRUCTION APPLICATION

Notes:

- Listed capacities are in accordance with provisions of AISI S100-16(R2020)/S2-20 and ICC-ES AC261.
- Tabulated load capacities are based on the following considerations:
 - Framing Connection: Proprietary Deflection Screws (0.25" dia)
 - Connection to Structure: #12 HWH Fasteners connected to 3/16" thick ASTM A36 Steel. See illustration for base connection.
 - Requires a minimum of 4" of structure engagement.
 - Other fasteners may be used to achieve full clip capacity but must be designed separately.
 - Listed capacities have not been increased for wind, seismic, or other factors.
- 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.
- Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.
- 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 Fast Strut clip slots for framing connection.
- The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.
- 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.
- The Proprietary Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- It is the responsibility of the design professional to detail the project drawings for proper Fast Strut installation.
- 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.

Fast Strut™

Curtain Wall/Bypass

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

Clip Designation	Framing Member Spec			No. of Base Connection Fasteners	Load Capacities (lbs) / Clip										
	Stud Depth (in)	Proprietary Deflection Screws	Stud 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
FS12	3-5/8	2	33 (20)	2	355	120	185	1315	1315	425	655	1170	1310	425	655
			3	355	120	185	1345	1470	505	810	1170	1310	450	720	
			43 (18)	2	375	120	185	1315	1315	425	655	1315	1315	425	655
				3	375	120	185	1390	1705	555	850	1480	1705	555	850
			54 (16)	2	375	120	185	1315	1315	425	655	1315	1315	425	655
				3	375	120	185	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	375	120	185	1315	1315	425	655	1315	1315	425	655
				3	375	120	185	1705	1705	555	850	1705	1705	555	850
			97 (12)	2	375	120	185	1315	1315	425	655	1315	1315	425	655
				3	375	120	185	1705	1705	555	850	1705	1705	555	850
	6	3	33 (20)	2	325	110	180	1140	1315	425	655	1315	1315	425	655
			3	325	110	180	1140	1705	555	850	1665	1705	555	850	
			43 (18)	2	375	120	185	1315	1315	425	655	1315	1315	425	655
				3	375	120	185	1510	1705	555	850	1705	1705	555	850
			54 (16)	2	375	120	185	1315	1315	425	655	1315	1315	425	655
				3	375	120	185	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	375	120	185	1315	1315	425	655	1315	1315	425	655
				3	375	120	185	1705	1705	555	850	1705	1705	555	850
			97 (12)	2	375	120	185	1315	1315	425	655	1315	1315	425	655
				3	375	120	185	1705	1705	555	850	1705	1705	555	850
FS15	6	3	33 (20)	2	325	100	160	1315	1315	425	655	1315	1315	425	655
			3	325	100	160	1705	1705	555	850	1705	1705	555	850	
			43 (18)	2	325	100	160	1315	1315	425	655	1315	1315	425	655
				3	325	100	160	1705	1705	555	850	1705	1705	555	850
			54 (16)	2	325	100	160	1315	1315	425	655	1315	1315	425	655
				3	325	100	160	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	325	100	160	1315	1315	425	655	1315	1315	425	655
				3	325	100	160	1705	1705	555	850	1705	1705	555	850
			97 (12)	2	325	100	160	1315	1315	425	655	1315	1315	425	655
				3	325	100	160	1705	1705	555	850	1705	1705	555	850
	8	3	33 (20)	2	325	100	160	1315	1315	425	655	1315	1315	425	655
			3	325	100	160	1705	1705	555	850	1705	1705	555	850	
			43 (18)	2	325	100	160	1315	1315	425	655	1315	1315	425	655
				3	325	100	160	1705	1705	555	850	1705	1705	555	850
			54 (16)	2	325	100	160	1315	1315	425	655	1315	1315	425	655
				3	325	100	160	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	325	100	160	1315	1315	425	655	1315	1315	425	655
				3	325	100	160	1705	1705	555	850	1705	1705	555	850
			97 (12)	2	325	100	160	1315	1315	425	655	1315	1315	425	655
				3	325	100	160	1705	1705	555	850	1705	1705	555	850
FS18	6	3	33 (20)	2	285	90	140	1315	1315	425	655	1315	1315	425	655
			3	285	90	140	1705	1705	555	850	1705	1705	555	850	
			43 (18)	2	285	90	140	1315	1315	425	655	1315	1315	425	655
				3	285	90	140	1705	1705	555	850	1705	1705	555	850
			54 (16)	2	285	90	140	1315	1315	425	655	1315	1315	425	655
				3	285	90	140	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	285	90	140	1315	1315	425	655	1315	1315	425	655
				3	285	90	140	1705	1705	555	850	1705	1705	555	850
			97 (12)	2	285	90	140	1315	1315	425	655	1315	1315	425	655
				3	285	90	140	1705	1705	555	850	1705	1705	555	850
	8	3	33 (20)	2	285	90	140	1315	1315	425	655	1315	1315	425	655
			3	285	90	140	1705	1705	555	850	1705	1705	555	850	
			43 (18)	2	285	90	140	1315	1315	425	655	1315	1315	425	655
				3	285	90	140	1705	1705	555	850	1705	1705	555	850
			54 (16)	2	285	90	140	1315	1315	425	655	1315	1315	425	655
				3	285	90	140	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	285	90	140	1315	1315	425	655	1315	1315	425	655
				3	285	90	140	1705	1705	555	850	1705	1705	555	850
			97 (12)	2	285	90	140	1315	1315	425	655	1315	1315	425	655
				3	285	90	140	1705	1705	555	850	1705	1705	555	850



TYPICAL CONSTRUCTION APPLICATION

Notes:

- Listed capacities are in accordance with provisions of AISI S100-16(R2020)/S2-20, ICC-ES AC261 and ESR 2269.
- Tabulated load capacities are based on the following considerations:
 - Framing Connection: Proprietary Deflection Screws (0.25" dia).
 - Connection to Structure: 0.157" Hilti X-U Pins connected to 3/16" thick ASTM A36 Steel. See illustration for base connection.
 - Requires a minimum of 4" of structure engagement.
 - Other fasteners may be used to achieve full clip capacity but must be designed separately.
 - Listed capacities have not been increased for wind, seismic, or other factors.
- 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.
- Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.
- 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 Fast Strut clip slots for framing connection.
- The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100 and ESR2269.
- The Proprietary Deflection Screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- 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.
- Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
- It is the responsibility of the design professional to detail the project drawings for proper Fast Strut installation.
- 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.

ATTACHMENT TO STRUCTURE: 0.157" HILTI X-U TO 3/16" STEEL (CONT'D)

Clip Designation	Framing Member Spec			No. of Base Connection Fasteners	Load Capacities (lbs) / Clip										
	Stud Depth (in)	Proprietary Deflection Screws	Stud 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
FS20	6	3	33 (20)	2	265	85	130	1315	1315	425	655	1315	1315	425	655
				3	265	85	130	1705	1705	555	850	1705	1705	555	850
			43 (18)	2	265	85	130	1315	1315	425	655	1315	1315	425	655
				3	265	85	130	1705	1705	555	850	1705	1705	555	850
			54 (16)	2	265	85	130	1315	1315	425	655	1315	1315	425	655
				3	265	85	130	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	265	85	130	1315	1315	425	655	1315	1315	425	655
				3	265	85	130	1705	1705	555	850	1705	1705	555	850
	6	3	33 (20)	2	265	85	130	1315	1315	425	655	1315	1315	425	655
				3	265	85	130	1705	1705	555	850	1705	1705	555	850
			43 (18)	2	265	85	130	1315	1315	425	655	1315	1315	425	655
				3	265	85	130	1705	1705	555	850	1705	1705	555	850
			54 (16)	2	265	85	130	1315	1315	425	655	1315	1315	425	655
				3	265	85	130	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	265	85	130	1315	1315	425	655	1315	1315	425	655
				3	265	85	130	1705	1705	555	850	1705	1705	555	850
FS22	6	3	33 (20)	2	250	75	125	1315	1315	425	655	1315	1315	425	655
				3	250	75	125	1705	1705	555	850	1705	1705	555	850
			43 (18)	2	250	75	125	1315	1315	425	655	1315	1315	425	655
				3	250	75	125	1705	1705	555	850	1705	1705	555	850
			54 (16)	2	250	75	125	1315	1315	425	655	1315	1315	425	655
				3	250	75	125	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	250	75	125	1315	1315	425	655	1315	1315	425	655
				3	250	75	125	1705	1705	555	850	1705	1705	555	850
	8	3	33 (20)	2	250	75	125	1315	1315	425	655	1315	1315	425	655
				3	250	75	125	1705	1705	555	850	1705	1705	555	850
			43 (18)	2	250	75	125	1315	1315	425	655	1315	1315	425	655
				3	250	75	125	1705	1705	555	850	1705	1705	555	850
			54 (16)	2	250	75	125	1315	1315	425	655	1315	1315	425	655
				3	250	75	125	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	250	75	125	1315	1315	425	655	1315	1315	425	655
				3	250	75	125	1705	1705	555	850	1705	1705	555	850
FS24	6	3	33 (20)	2	230	70	115	1315	1315	425	655	1315	1315	425	655
				3	230	70	115	1705	1705	555	850	1705	1705	555	850
			43 (18)	2	230	70	115	1315	1315	425	655	1315	1315	425	655
				3	230	70	115	1705	1705	555	850	1705	1705	555	850
			54 (16)	2	230	70	115	1315	1315	425	655	1315	1315	425	655
				3	230	70	115	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	230	70	115	1315	1315	425	655	1315	1315	425	655
				3	230	70	115	1705	1705	555	850	1705	1705	555	850
	8	3	33 (20)	2	230	70	115	1315	1315	425	655	1315	1315	425	655
				3	230	70	115	1705	1705	555	850	1705	1705	555	850
			43 (18)	2	230	70	115	1315	1315	425	655	1315	1315	425	655
				3	230	70	115	1705	1705	555	850	1705	1705	555	850
			54 (16)	2	230	70	115	1315	1315	425	655	1315	1315	425	655
				3	230	70	115	1705	1705	555	850	1705	1705	555	850
			68 (14)	2	230	70	115	1315	1315	425	655	1315	1315	425	655
				3	230	70	115	1705	1705	555	850	1705	1705	555	850



TYPICAL CONSTRUCTION APPLICATION

Notes:

- Listed capacities are in accordance with provisions of AISI S100-16(R2020)/S2-20, ICC-ES AC261 and ESR 2269.
- Tabulated load capacities are based on the following considerations:
 - Framing Connection: Proprietary Deflection Screws (0.25" dia).
 - Connection to Structure: 0.157" Hilti X-U Pins connected to 3/16" thick ASTM A36 Steel. See illustration for base connection.
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