

Drift FastClip™ Slide Clip - 97mils (12ga)

Curtain Wall/Bypass with Drift & Vertical Deflection

Vertical and lateral building movement up to 2".

ClarkDietrich Drift FastClip™ Slide Clip 97mils (12ga) is used to attach exterior curtain-wall studs to the building structure and provide for both vertical and lateral movement. Proprietary HD Deflection Screws are provided with each clip for attachment to the wall studs and allow for 2" vertical deflection (1" up and down) to ensure friction-free sliding. Step bushings are provided for the connection to the structure and allow for 2" lateral deflection (1" left and right).

MATERIAL SPECIFICATIONS

Gauge: 12 gauge (97mils)

Design Thickness: 0.1017 inches

Yield Strength: 50ksi

Coating: G90

PRODUCT DIMENSIONS

D-FCSC3.5: 3-3/4" x 4" x 3-1/2" long

D-FCSC6: 3-3/4" x 4" x 6" long

D-FCSC8: 3-3/4" x 4" x 7-3/4" long

CODE APPROVALS & PERFORMANCE STANDARDS

IAPMO ER-729

AISI S100

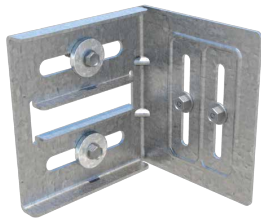
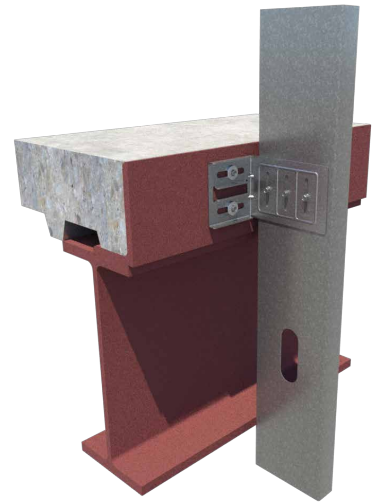
ALTERNATIVE PRODUCTS

Drift Rail and Clip

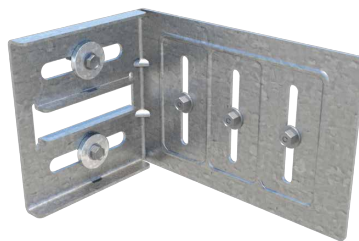
INSTALLATION

To attach the clip to the cold-formed steel framing, two, three or four Proprietary HD Deflection Screws (based upon clip size), shall be driven through the slotted holes and positioned to allow for the appropriate building deflection.

Attachment to the primary structure can be made with fasteners, or bolt anchors. Structure attachments shall be driven through the drift bushings and the Drift FastClip™ - centered or offset in the drift slots.



D-FCSC3.5



D-FCSC6



D-FCSC8

Drift FastClip™ Slide Clip (D-FCSC)

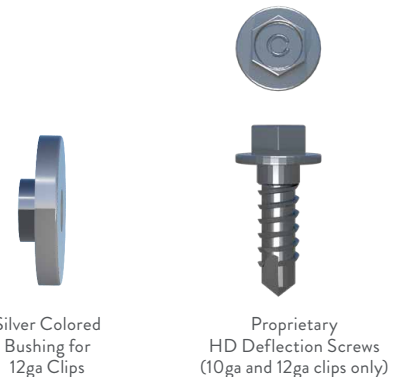
Clip Designation	Thickness		Size (in)	Bushings per Clip	Slots / Deflection Screws per Clip
	mils (ga)	Design Thickness (in)			
D-FCSC3.5-97	97 (12)	0.1017	3-1/2	2	2
D-FCSC6-97	97 (12)	0.1017	6	2	3
D-FCSC8-97	97 (12)	0.1017	7-3/4	2	4

Packaging: 25 Clips per Bucket

D-FCSC3.5 includes (55) Proprietary HD Deflection Screws & (50) Bushings

D-FCSC6 includes (80) Proprietary HD Deflection Screws & (50) Bushings

D-FCSC8 includes (110) Proprietary HD Deflection Screws & (50) Bushings



Drift FastClip™ Slide Clip - 97mils (12ga)

Curtain Wall/Bypass with Drift & Vertical Deflection

ATTACHMENT TO STRUCTURE: DESIGNED BY OTHERS

Clip Designation	Framing Member Details				Load Capacities (lbs) / Clip											
	Stud Depth (in)	Proprietary HD Deflection Screws	Stud Thickness mils (ga)	Yield Strength, ksi	Tension (F2) - Center				Tension (F2) - Offset				Compression (F3)			
					1/8" Service Load	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
D-FCSC3.5-97	3-5/8	2	43 (18)	33	1020	1745	600	905	355	1420	605	905	1775	1810	605	905
			54 (16)	50	1220	2390	1065	1600	440	1950	1005	1600	2690	3360	1225	1840
			68 (14)	50	1230	2570	1065	1600	520	2980	1025	1600	2910	4185	1735	2600
			97 (12)	50	1275	2595	1065	1600	540	3200	1065	1600	3850	5950	2030	3050
D-FCSC6-97	6	3	43 (18)	33	1335	2450	840	1350	475	2110	905	1360	2930	2715	905	1360
			54 (16)	50	1380	2450	1065	1600	475	2110	725	1160	3860	4325	1840	2755
			68 (14)	50	1380	2655	1065	1600	590	2885	990	1590	4625	5875	2600	3900
			97 (12)	50	1435	2655	1065	1600	615	3200	1065	1600	5140	7970	3050	4570
D-FCSC8-97	8	4	43 (18)	33	1360	2735	1065	1600	485	2335	805	1285	2930	3185	1205	1810
			54 (16)	50	1360	2735	1065	1600	485	2515	865	1385	4750	4995	2450	3675
			68 (14)	50	1495	2735	1065	1600	485	3200	1065	1600	5195	6100	3135	5015
			97 (12)	50	1495	2735	1065	1600	535	3200	1065	1600	6505	7260	3730	5965

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: ClarkDietrich Proprietary HD Deflection Screws (0.25" dia)
 - Connection to Structure: Designed by others.
 - 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 load and ASD/LRFD loads.
- Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.
- The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100.
- ClarkDietrich Proprietary HD Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes.
- Listed capacities applicable for framing screws centered and offset in D-FCSC clip slots. For connection to structure, base anchors designed by others.
- The ClarkDietrich Proprietary HD 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 D-FCSC97 clip 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: (2) 1/4" Φ FASTENERS TO 3/16" STEEL

Clip Designation	Stud Thickness / Yield Strength mils (ga) ksi	Proprietary HD Deflection Screws	Mechanically Anchored to Structure	Load Capacities (lbs) / Clip											
				Tension (F2) - Center				Tension (F2) - Offset				Compression (F3)			
				1/8" Service Load	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
D-FCSC3.5-97	33 (20) 33	2	(2) 1/4"-20 fasteners in 3/16" steel	645	1070	365	590	335	1000	510	765	1215	1215	605	905
	43 (18) 33			1020	1745	600	905	355	1420	605	905	1775	1810	605	905
	54 (16) 50			1220	2305	840	1260	440	1950	675	1015	2690	3360	1225	1840
	68 (14) 50			1230	2305	840	1260	520	2025	675	1015	2910	4185	1735	2600
	97 (12) 50			1275	2305	840	1260	540	2025	675	1015	3850	5950	2030	3050
D-FCSC6-97	33 (20) 33	3		680	1405	485	775	330	1440	510	765	1825	1825	905	1360
	43 (18) 33			1335	2305	840	1260	475	2025	675	1015	2715	2715	905	1360
	54 (16) 50			1380	2305	840	1260	475	2025	675	1015	3860	4325	1840	2755
	68 (14) 50			1380	2305	840	1260	590	2025	675	1015	4625	5875	2600	3900
	97 (12) 50			1435	2305	840	1260	615	2025	675	1015	5140	7970	3050	4570
D-FCSC8-97	33 (20) 33	4		680	1430	630	950	320	1305	450	715	1740	1740	895	1430
	43 (18) 33			1360	2305	840	1260	485	2025	675	1015	2930	3185	1205	1810
	54 (16) 50			1360	2305	840	1260	485	2025	675	1015	4750	4995	2450	3675
	68 (14) 50			1495	2305	840	1260	485	2025	675	1015	5195	6100	3135	5015
	97 (12) 50			1495	2305	840	1260	535	2025	675	1015	6505	7260	3210	5965

Notes:

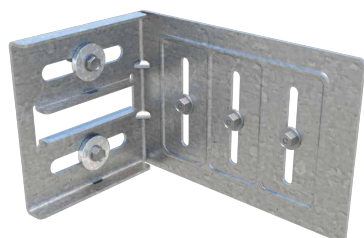
- Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20 and ICC-ES AC261.
- Tabulated load capacities are based on the following considerations:
 - Framing Connection: ClarkDietrich Proprietary HD Deflection Screws (0.25" dia)
 - Connection to Structure: (2) 1/4" Φ Fasteners connected through provided drift bushings to 3/16" thick ASTM A36 Steel (see illustrations for base connection details)
 - 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 loads and ASD/LRFD loads.
- ClarkDietrich 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 D-FCSC 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.
- 1/4" fasteners in steel shall have a nominal shear capacity of 2970lbs and minimum tension capacity of 2307lbs according to ESR-1976 and manufacturer's limits.
- 1/4" fasteners shall be attached to the structure in accordance with manufacturer's installation instructions.
- The ClarkDietrich Proprietary HD Deflection screws (0.25" dia) provide nominal shear capacity of 2400lbs and a nominal tension capacity of 4060lbs.
- Nominal capacities are listed for use in blast/seismic designs and they do not assume a safety factor or resistance factor.
- It is the responsibility of the design professional to detail the project drawings for proper D-FCSC97 clip installation.

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

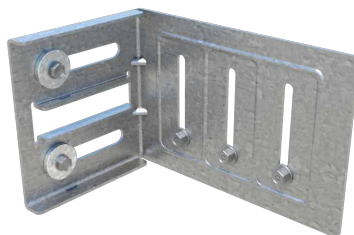
Clip Designation	Stud Thickness / Yield Strength mils (ga) ksi	Proprietary HD Deflection Screws	Mechanically Anchored to Structure	Load Capacities (lbs) / Clip											
				Tension (F2) - Center				Tension (F2) - Offset				Compression (F3)			
				1/8" Service Load	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load	1/8" Service Load	Nominal Load	ASD Load	LRFD Load
D-FCSC3.5-97	33 (20) 33	2	(2) 1/4" Hilti Kwik HUS-EZ (2-1/2" Embedment in to 3000psi cracked concrete)	645	1070	365	865	335	1000	435	695	1215	1215	605	905
	43 (18) 33			1020	1440	540	865	355	1160	435	695	1775	1810	605	905
	54 (16) 50			1220	1440	540	865	440	1160	435	695	2690	3360	1225	1840
	68 (14) 50			1230	1440	540	865	520	1160	435	695	2910	4185	1735	2600
	97 (12) 50			1275	1440	540	865	540	1160	435	695	3850	5950	2030	3050
D-FCSC6-97	33 (20) 33	3		680	1405	485	865	330	1160	435	695	1825	1825	905	1360
	43 (18) 33			1335	1440	540	865	475	1160	435	695	2715	2715	905	1360
	54 (16) 50			1380	1440	540	865	475	1160	435	695	3860	4325	1840	2755
	68 (14) 50			1380	1440	540	865	590	1160	435	695	4625	5875	2600	3900
	97 (12) 50			1435	1440	540	865	615	1160	435	695	5140	7970	3050	4570
D-FCSC8-97	33 (20) 33	4		680	1430	540	865	320	1160	435	695	1740	1740	895	1430
	43 (18) 33			1360	1440	540	865	485	1160	435	695	2930	3185	1205	1810
	54 (16) 50			1360	1440	540	865	485	1160	435	695	4750	4995	2450	3675
	68 (14) 50			1440	1440	540	865	485	1160	435	695	5195	6100	3135	5015
	97 (12) 50			1440	1440	540	865	535	1160	435	695	6505	7260	3730	5965

Notes:

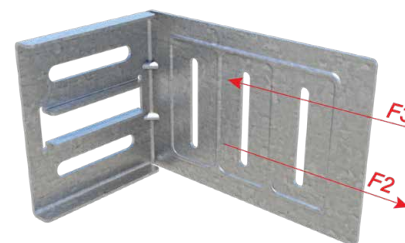
- Listed capacities are in accordance with provisions of AISI S100-16 (R2020)/S2-20, ICC-ES AC261 and ACI 318-19.
- Tabulated load capacities are based on the following considerations:
 - Framing Connection: ClarkDietrich Proprietary HD Deflection Screws (0.25" dia)
 - Connection to Structure: (2) 1/4" Φ Hilti KH-EZ Anchors connected through provided drift bushings to 3000psi Cracked Concrete. Minimum concrete thickness shall be 6-1/2", edge distance shall be 2-1/4".
 - Embedment to Concrete: Nominal embedment depth = 2-1/2" for 1/4" KH-EZ anchors.
 - 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 loads and ASD/LRFD loads.
- ClarkDietrich Proprietary HD Deflection Screws (0.25" dia) used to attach clips to framing members through the provided slotted holes.
- Listed capacities applicable for framing screws centered and offset in D-FCSC clip slots. For connection to structure, base anchors are assumed to be uniformly loaded.
- The safety factor for ASD loads and resistance factor for LRFD loads are in accordance with Chapter K of AISI-S100 and ESR3027.
- The ClarkDietrich Proprietary HD 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 Anchors 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 D-FCSC97 clip installation.



**STRUCTURE AND FRAMING
CENTERED CONNECTION'**
Drift Bushings & Framing Fasteners



**STRUCTURE AND FRAMING
OFFSET CONNECTION'**
Drift Bushings & Framing Fasteners



TENSION (F2) / COMPRESSION (F3)