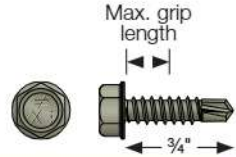


CFS Connections

Strong-Drive®**XE EXTERIOR STRUCTURAL METAL Screw***Structural Metal Connectors***Common Application:**

Only fastener load rated for Simpson Strong-Tie L70Z and LS70Z connectors for use with Trex® Elevations™ steel deck framing

For more information, see p. 114, C-F-2023 Fastening Systems catalog

**Cold-Formed Steel Member Connection Loads, Steel to Steel**

Size-TPI x Length	Model No.	Nominal Dia. d (in.)	Washer Dia. d _w (in.)	Load Description	Reference Shear (lb.)						Reference Pullover (lb.)						Reference Pullout (lb.)					
					Steel Thickness: [mil (ga.)]						Steel Thickness: [mil (ga.)]						Steel Thickness: [mil (ga.)]					
					27 (22)	33 (20)	43 (18)	54 (16)	68 (14)	97 (12)	27 (22)	33 (20)	43 (18)	54 (16)	68 (14)	97 (12)	27 (22)	33 (20)	43 (18)	54 (16)	68 (14)	97 (12)
#10-16 x ¾	XEQ34B1016	0.19	0.4	Allowable strength (ASD)	182	235	365	465	465	465	330	425	605	785	785	785	64	95	128	226	306	501
				Design strength (LRFD)	292	375	585	695	695	695	525	675	970	1,175	1,175	1,175	103	152	205	361	490	801
				Nominal strength	423	535	830	1,290	1,290	1,290	805	1,035	1,485	2,065	2,065	2,065	167	234	348	555	750	1,225

1. Screws and their connections have been tested per AISI Standard Test Method S904 and S905.

2. Loads are based on cold-formed steel members with a minimum yield strength, $F_y = 33$ ksi and tensile strength, $F_u = 45$ ksi for 43 mil (18 ga.) and thinner, and a minimum yield strength, $F_y = 50$ ksi and tensile strength, $F_u = 65$ ksi for 54 mil (16 ga.) and thicker.

3. Screws shall extend through the connection with a minimum of three exposed threads per AISI General Provisions Standard Section D1.3.

4. Maximum grip length for the XEQ34B1016 is 0.34". Grip length is the total connection thickness plus three protruding threads.

Screw Strength

Size-TPI x Length	Nominal Strength		Design Strength (LRFD) $\phi = 0.5$ (lb.)		Allowable Strength (ASD) $\Omega = 3.0$ (lb.)	
	P_{ss}	P_{ts}	ϕP_{ss}	ϕP_{ts}	P_{ss}/Ω	P_{ts}/Ω
#10-16 x ¾	1,390	2,350	695	1,175	465	785

P_{ss} — Shear strength

P_{ts} — Tensile strength

Allowable Loads for Connectors with Exterior Steel Deck Framing

Model No.	Length (in.)	Fasteners	Allowable Loads (lb.)	
			(F_1)	
			43 mil (18 ga.)	68 mil (14 ga.)
L70Z	7	(8) #10	935	1,265
LS70Z	6¾	(10) #10	600	1,070

1. Loads are for one part only.

2. Loads are for 8" headers/joists.

3. F_1 load refers to the download or the uplift loads acting along the web of the joist/header.

4. The Strong-Drive XE Exterior Structural Metal Screw is the only fastener load rated for use with L70Z/LS70Z connectors and New Castle Steel™ steel deck framing.