

8" 97mil Extended FastClip™ Slide Clip

12ga Extended FastClip (FCEC) Allowable Loads (lbs)

Anchor type	Stud thickness and yield strength	No. anchors to structure	Allowable load* (lbs)	Allowable load# (lbs)
Weld (Fillet/ Flare Groove) E60XX	33mil (20ga) 33ksi	(3) 1" x 1/16"	608	608
	43mil (18ga) 33ksi	(3) 1" x 1/16"	905	905
	54mil (16ga) 50ksi	(3) 1" x 1/16"	1838	1838
	68mil (14ga) 50ksi	(3) 1" x 1/16"	2180	2180
	97mil (12ga) 50ksi	(3) 1" x 1/16"	2587	2587
Buildex #12-24 Self-Drilling Screws to 3/16" Steel	33mil (20ga) 33ksi	2	608	608
		3	608	608
		4	608	608
	43mil (18ga) 33ksi	2	905	905
		3	905	905
		4	905	905
	54mil (16ga) 50ksi	2	1004	1004
		3	1261	1506
		4	1261	1838
	68mil (14ga) 50ksi	2	1004	1004
		3	1261	1506
		4	1261	2008
97mil (12ga) 50ksi	2	1004	1004	
	3	1261	1506	
	4	1261	2008	
Hilti 0.157" X-U Powder-Actuated Fasteners (PAF) to 3/16" Steel	33mil (20ga) 33ksi	2	608	608
		3	608	608
		4	608	608
	43mil (18ga) 33ksi	2	905	905
		3	905	905
		4	905	905
	54mil (16ga) 50ksi	2	1064	1064
		3	1261	1596
		4	1261	1838
	68mil (14ga) 50ksi	2	1064	1064
		3	1261	1596
		4	1261	2129
97mil (12ga) 50ksi	2	1064	1064	
	3	1261	1596	
	4	1261	2129	
Generic Fasteners to 3/16" Steel	33mil (20ga) 33ksi	n	608	608
	43mil (18ga) 33ksi	n	905	905
	54mil (16ga) 50ksi	n	1261	1835
	68mil (14ga) 50ksi	n	1261	2180
	97mil (12ga) 50ksi	n	1261	2587
Ultimate Clip Capacity	33mil (20ga) 33ksi	—	1825	
	43mil (18ga) 33ksi	—	2715	
	54mil (16ga) 50ksi	—	5514	
	68mil (14ga) 50ksi	—	6541	
	97mil (12ga) 50ksi	—	7762	

Notes:

- 1 Tabulated allowable loads do not include a 1/3 stress increase for wind.
- 2 * - Allowable capacity includes 1/8" service load limit.
- 3 # - Allowable capacity does not include 1/8" service load limit.
- 4 Allowable weld capacities were calculated by assuming 3 x 1" long welds at the ends and center of the clip bend.
- 5 Listed weld capacities were calculated assuming an E60XX electrode.
- 6 Mechanical fasteners should be attached to the structure in accordance with the manufacturer's instructions. All fasteners were assumed to be installed at a distance of 3/4" from the bend of the structural leg.
- 7 Generic fastener capacities were calculated by considering clip-stud interaction, behavior of clip in tension and compression only. The design professional has to detail for clip and desired fastener installation.
- 8 n - Number of generic mechanical fasteners required for connection to be determined by a design professional. Capacity should not exceed tabulated allowable loads.
- 9 Ultimate clip capacities were tabulated for the purpose of blast loads and they do not assume a safety factor.
- 10 Ultimate clip capacities were calculated by assuming 3 x 1" long weld at the structural leg of the clip (clip bend) welded to 3/16" steel.
- 11 It is the responsibility of the design professional to detail the project drawings for proper clip and fastener installation.
- 12 Buildex is a registered trademark of Illinois Tool Works, Inc.
- 13 Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.