



(1) #10 into return lip¹

MAXIMUM CAPACITY (LBS) - GROUTED CMU

	FASTENER DIA. X EMBED	MIN. EDGE DIST. (IN)	USHD BLOCK		USWD VERTICAL WEB				
			#10 SDS HD-B	UPLIFT P1 (LBS)	HORIZ P2 (LBS)	#10 SDS C-W	#10 SDS HD-C	UPLIFT P1 (LBS)	HORIZ P2 ¹ (LBS)
423HD16	Powers Wedge Bolt 3/8" x 2-1/2"	2	2	570	380	4	2	570	380
	Hilti Kwik Bolt 3 1/2" x 3"	1-3/4	2	645	310	4	2	645	310
	Hilti Kwik HUS 1/2" x 4-1/4"	1-3/4	2	650	305	4	2	650	305
423HD14	Hilti Kwik HUS 1/2" x 4-1/4"	1-3/4	2	680	305	4	2	680	305
	Hilti HIT HY 150 MAX 1/2" x 4-1/2"	1-3/4	2	990	295	4	2	990	295
3			1095	--	3	1095	--		
426HD14	Hilti Kwik HUS 1/2" x 4-1/4"	1-3/4	2	680	305	4	2	680	305
	Hilti HIT HY 150 MAX 1/2" x 4-1/2"	1-3/4	2	990	295	4	2	990	295
			3	1095	--	3	1095	--	
	Hilti Kwik Bolt 3 5/8" x 3-1/2"	1-3/4	2	850	310	4	2	850	310
	Hilti Kwik HUS 5/8" x 5"	1-3/4	2	990	305	4	2	990	305
			3	1310	--	6	3	1310	--
Hilti HIT HY 150 MAX 5/8" x 5-5/8"	1-3/4	2	990	400	4	2	990	400	
		3	1240	--	6	3	1240	--	

¹ (1) #10 SDS required in BC return lip - P2 = 155 lbs without screw

- 1) Min. screw spacing & edge distance = 9/16".
- 2) For Hilti Fasteners, refer to the current Hilti Product Technical Guide for installation requirements and application limits.
- 3) For Powers Fasteners, refer to the Powers Technical Manual, 6th Edition for installation requirements and application limits.
- 4) Grout must have a minimum $f_m = 1500$ psi.
- 5) Place Fastener in hole of the HD clip.
- 6) HD product specified is manufactured by Aegis Metal Framing. Any substitution is prohibited.
- 7) This detail does not indicate or imply that the depicted bearing is structurally adequate for the loads shown. Design of bearing is req'd.
- 8) Max. Reactions shown are non-concurrent

Revised 5/20/11 - New 423HD14, 423HD16 and 426HD14
Revised 7/2013 - Updated fasteners and screws values

DETAIL NO.

D-CMU-1.2

CATEGORY

STANDARD DETAILS

DATE

7/2013



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**1-Ply USD TRUSS TO CMU BEARING
423/426HD**