



Symbol	Symbol Description	Units	Anchor Diameter [inch]												
			¼	⅜	½	⅝	¾	1	1 ¼	1 ½					
HDB	Hollow Drill Bit		-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DRS	Dust Removal Systems		-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
AT-System	SIW 6AT-A22 + SI AT-A22		-	-	✓	✓	✓	✓	✓	-	-	-	-	-	
	SIW 4AT-22 + SI AT-22		-	-	✓	✓	✓	✓	✓	-	-	-	-	-	
	SIW 6AT-22 + SI AT-22		-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Diamond Core Bit		-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
d_0	Drill Bit Diameter	[inch]	¼	⅜	½	⅝	¾	1	1 ¼	1 ½	1 ¾	2	2 ¼	2 ½	
h_{ef}	Effective Embedment Depth	[inch]	1 ½	1 ¾	2	2 ½	2	2 ½	3	3 ¼	3 ½	4	4 ½	4 ¾	5
h_{nom}	Nominal Embedment Depth	[inch]	1 ¾	1 ¾	2 ½	3	2 ½	3	3 ¾	3 ¾	4 ½	4	4 ½	5 ½	6 ¾
h_0	Minimum Hole Depth in Base Material	[inch]	2	2	2 ¾	3 ¼	2 ¾	3 ¼	4 ¼	3 ¾	4 ¼	4 ¾	4 ¾	5 ¾	6 ¾
$T_{inst, concrete}$	Installation Torque Concrete	carbon steel	[ft-lb]	4	30	50	40	110	185						
		SS304, SS316	[ft-lb]	6	30	40	60	125	185						
$T_{inst, grout\ filled\ CMU}$	Installation Torque Grout-Filled CMU	carbon steel	[ft-lb]	4	15	25	30	50	-						
		SS304, SS316	[ft-lb]	6	15	25	35	50	-						
d_{fix}	Fixture Hole Diameter	[inch]	⅜	⅞	¾	1 ¼	1 ½	1 ¾	2						
WS	Wrench Size	[inch]	⅞	1 ¼	1 ½	1 ¾	2	2 ¼	2 ½						

Use only carbide-tipped masonry drill bits complying with ANSI B212.15.1994

For steps 1a or 1b, make sure to drill deep enough to achieve h_0 , taking into account the depth of debris remaining in the hole.

** AT-System not applicable for grout-filled CMU and wood fastening applications.

For UL Listing, the ⅝" anchor is rated up to 10 NPS at a minimum of 3-¼" nominal embedment. UL Listing does not cover the ¼" and 1" anchor sizes.