



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_{ref}	Effective Embedment Depth	[inch]	1 ½	1 ½	2	2 ½	2	2 ½	3 ¼	2 ¾	3 ¼	4	3 ¼	3 ¾	4 5 ¾	
h_{nom}	Nominal Embedment Depth	[inch]	1 ¾	1 ½	2 ½	3	2 ½	3	3 ¾	3 ¾	4 ½	4	4 ½	5 ½	4 ¾	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	5	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 B21.15.1994

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.