



Symbol	Symbol Description	Units	Anchor Diameter [inch]							
			3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4
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	-	-	✓	✓	✓	✓	✓	✓	✓
d_0	Drill Bit Diameter (ANSI B212.15.1994)	[inch]	3/8	1/2	5/8	3/4				
h_{ef}	Effective Embedment Depth	[inch]	1 1/2*	2	2	3 1/4	2 3/4	4	3 1/4	4 3/4
h_{nom}	Nominal Embedment Depth	[inch]	1 7/8*	2 3/8	2 3/8	3 3/8	3 1/4	4 1/2	4	5 1/2
h_0	Minimum Hole Depth in Base Material	[inch]	2 1/8*	2 3/4	2 3/4	4 1/4	3 3/4	4 3/4	4 1/4	5 3/4
$T_{inst, concrete}$	Installation Torque Concrete	[ft-lb]	20		40		60		110	
$T_{inst, grout filled CMU}$	Installation Torque Grout-Filled CMU	[ft-lb]	15		25		35		50	
d_{fix}	Fixture Hole Diameter	[inch]	7/16		9/16		11/16		13/16	
WS	Wrench Size	[inch]	9/16		3/4		15/16		1 1/8	

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.

For UL Listing, the 3/8" anchor is rated up to 10 NPS at a minimum of 3-1/4" nominal embedment.

* For 3/8" anchors, the 1 1/2" effective embedment only applies for concrete base material.

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