



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	7/8	1	1 1/8	1 1/4
$h_{ef}$	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 5/8	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	80	100	120	140	160
$T_{inst, grout filled CMU}$	Installation Torque Grout-Filled CMU	[ft-lb]	15	25	35	50	70	100	140	200
$d_{fix}$	Fixture Hole Diameter	[inch]	7/16	9/16	11/16	13/16	15/16	1 1/16	1 3/16	1 5/16
WS	Wrench Size	[inch]	9/16	3/4	15/16	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8

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 3-3/4" 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.