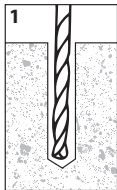
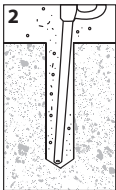




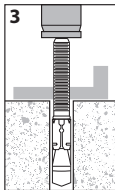
INSTALLATION INSTRUCTIONS: WEDGE ANCHORS



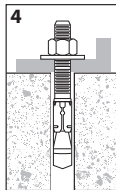
Use a rotary hammer drill in the percussion mode with the correct size carbide drill bit meeting the requirements of ANSI Standard B212-15 to drill the hole perpendicular to the concrete surface and to the required depth.



Use a hand pump, compressed air or vacuum to remove debris and dust from the drilling operation.

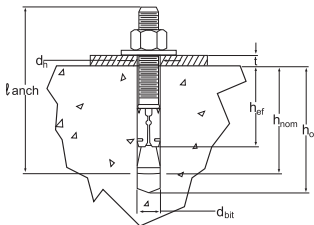


If installation is through a fixture, position the fixture over the hole and install the anchor through the hole in the fixture. Using a hammer, drive the anchor into the hole insuring that it is installed to the minimum required embedment depth, h_{nom} .



Install the washer and nut on the projecting thread and tighten the nut to the required installation torque value, T_{inst} , using a torque wrench.





INSTALLATION SPECIFICATIONS	SYMBOL	UNITS	Nominal Anchor Diameter, in.		
			1/4"	3/8"	1/2"
Anchor diameter	d_a (d_o)	in.	1/4"	3/8"	1/2"
Minimal diameter of fixture hole clearance	d_h	in.	5/16"	7/16"	9/16"
Nominal drill bit diameter	d_{bit}	in.	1/4"	3/8"	1/2"
Minimum nominal embedment depth	h_{nom}	in.	1-3/4"	2-1/2"	2-1/2"
Minimum effective embedment depth	h_{ef}	in.	1-1/2"	2-1/4"	2-1/4"
Minimum hole depth	h_o	in.	2"	2-3/4"	2-3/4"
Installation torque	T_{inst}	ft-lb	8	25	35
Minimum concrete thickness	h_{min}	in.	4"	4"	6"

Length Code Identification System

Length ID marking on threaded stud head		A	B	C	D	E	F	G	H	I
Overall anchor length, l_{anch} , (inches)	From	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"
	Up to but not including	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"