TABLE 1A—TITEN HD® SCREW ANCHOR INSTALLATION INFORMATION AND ANCHOR DATA[1]

Characteristic	Symbol	Units	Titen HD Screw Anchor Nominal Anchor Diameter (inch)										
			1/4		3/8		1/2		5/8		3/4		
Installation Information													
Nominal Diameter	d_a	in.	1/4		3/8		1/2		5/8		3/4		
Drill Bit Diameter	d_{bit}	in.	1/4		3/8		1/2		5/8		3/4		
Minimum Baseplate Clearance Hole Diameter[2]	d_c	in.	3/8		1/2		5/8		3/4		7/8		
Maximum Installation Torque[3]	$T_{inst,max}$	ft-lbf	24		50		65		100		150		
Maximum Impact Wrench Torque Rating	$T_{impact,max}$	ft-lbf	125		150		340		340		385		
Minimum Hole Depth	h_{hole}	in.	1 3/4	2 5/8	2 3/4	3 1/2	3 3/4	4 1/2	4 1/2	6	4 1/2	6	6 3/4
Nominal Embedment Depth	h_{nom}	in.	1 5/8	2 1/2	2 1/2	3 1/4	3 1/4	4	4	5 1/2	4	5 1/2	6 1/4
Effective Embedment Depth	h_{ef}	in.	1.19	1.94	1.77	2.40	2.35	2.99	2.97	4.24	2.94	4.22	4.86
Critical Edge Distance	c_{ac}	in.	3	6	2 11/16	3 5/8	3 9/16	4 1/2	4 1/2	6 3/8	6	6 3/8	7 5/16
Minimum Edge Distance	c_{min}	in.	1 1/2	1 1/2	1 3/4						1 3/4		
Minimum Spacing	s_{min}	in.	1 1/2	1 1/2	3						2 3/4	3	
Minimum Concrete Thickness	h_{min}	in.	3 1/4	3 1/2	4	5	5	6 1/4	6	8 1/2	6	8 3/4	10
Anchor Data													
Yield Strength	f_{ya}	psi	100,000		97,000								
Tensile Strength	f_{uta}	psi	125,000		110,000								
Minimum Tensile & Shear Stress Area	A_{se}[4]	in^2	0.042		0.099		0.183		0.276		0.414		
Axial Stiffness in Service Load Range - Uncracked Concrete	β_{uncr}	lb/in.	202,000		672,000								
Axial Stiffness in Service Load Range - Cracked Concrete	β_{cr}	lb/in.	173,000		345,000								

For **SI**: 1 inch = 25.4 mm, 1 ft-lbf = 1.356 N-m, 1 psi = 6.89 kPa, 1 in^2 = 645 mm^2, 1 lb/in = 0.175 N/mm.

[1]The information presented in this table is to be used in conjunction with the design criteria of ACI 318-19 Chapter 17, ACI 318-14 Chapter 17 or ACI 318-11 Appendix D, as applicable.
[2]The clearance must comply with applicable code requirements for the connected element.
[3]$T_{inst,max}$ applies to installations using a calibrated torque wrench.
[4]$A_{se,N} = A_{se,V} = A_{se}$

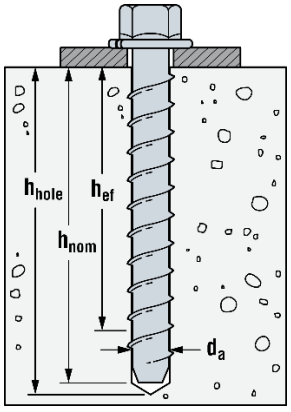

FIGURE 2A—TITEN HD® SCREW ANCHOR INSTALLATION