

TorqueMaster Concrete Screw Installation Information



Installation Instructions

*For best results, use a TorqueMaster tool kit to install TorqueMaster concrete screws

1. **DRILL** hole in concrete using a hammer drill and supplied bit. The hole must be at least 1/4" deeper than the length of the fastener.
2. **CLEAN** hole of debris and dust using a vacuum or compressed air.
3. **DRIVE** fastener into pre-drilled hole until firmly seated. Do not overdrive.



Installation Information for TorqueMaster Concrete Screws

ANCHOR INFORMATION	SYMBOL	UNITS	NOMINAL ANCHOR DIAMETER (inch)	
			3/16	1/4
Nominal Outside Anchor Diameter	d_a	in. (mm)	0.207 (5.3)	0.246 (6.2)
Drill Bit Diameter	d_{bit}	in. (mm)	5/32 (4.0)	3/16 (4.8)
Maximum Installation Torque	$T_{inst,max}$	ft-lbf (N-m)	Not applicable ²	
Nominal Embedment Depth	h_{nom}	in. (mm)	1 3/4 (44.5)	2 (50.8)
Effective Embedment Depth	h_{ef}	in. (mm)	1.107 (28.1)	1.295 (32.9)
Minimum Hole Depth	h_{hole}	in. (mm)	2 (50.8)	2 3/4 (57.2)
Minimum Concrete Thickness	h_{min}	in. (mm)	4 (101.6)	

For SI: 1 inch = 25.4 mm, 1 ft-lbf = 1.356 N-m.

1 The information presented in this table must be used in conjunction with the design requirements of ACI 318-19 Chapter 17.

2 Installation must be performed with the TorqueMaster tool kit. See Figure 3 for additional information.

3 Installation with TorqueMaster Concrete Screw Installation Tool is recommended

Additional Information

For additional installation information, parameters, and anchor specifications see ICC report # ESR-5134 or scan the QR code below to access the full ICC evaluation report.

- TorqueMaster concrete screws can be used in exterior applications and with treated wood. The DuraPro™ coating is resistant to the environment, wood acids, & wood treatment
- TorqueMaster concrete screws have been independently evaluated and approved as an alternative to cast-in-place anchors described in Section 1901.3 of the 2021 IBC
- TorqueMaster concrete screws have been independently evaluated and found to be in compliance with the following codes:
 - 2021 International Building Code® (IBC) and 2021 International Residential Code® (IRC)
 - 2022 California Building Code (CBC) and 2022 California Residential Code® (CRC)
 - 2022 Florida Building Code – Building and 2023 Florida Building Code - Residential including High-Velocity Hurricane Zone (HVHZ) provisions

