

UTB14158RH

The **UCAN UTB14158RH** concrete screw is a one piece, steel anchor designed for rod hanging applications such as fire protection systems, ventilation systems, electrical conduit, pipe hanging and cable trays. The UTB14158RH requires a 1/4" ANSI masonry bit for installation and accepts 3/8"-16 UNC threaded rods.

FEATURES:

- Tested to AC318 for use in seismic conditions
- Fast installation resulting in labor and time savings
- Hardened threads for easy tapping into normal-weight concrete
- FM Approved for maximum 4" pipe support systems

TYPICAL APPLICATIONS:

- Fire Sprinkler Pipes
- Ventilation Systems
- Overhead Utilities
- Lighting Systems
- Cable Trays

MATERIAL SPECIFICATIONS:

- Anchor Body - Case hardened C10B21 Carbon Steel
- Coupling Nut - Case hardened C10B21 Carbon Steel
- Plating - Zinc plating, ASTM B633, SC1 Type III, $\geq 5 \mu\text{m}$

LIMITATIONS:

- Not recommended for use in highly corrosive environments.



APPROVALS:



APPROVED
PR458424



ESR-5290



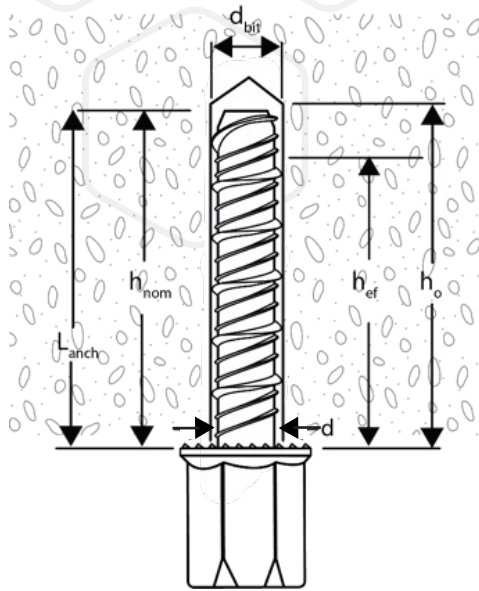
PACKAGING:
500 pcs. / carton

Tension Load Capacity in 4000 psi (27.6 MPa) uncracked normal weight concrete

Part Number	Effective Embedment		Allowable load	
	inch	mm	lbs.	kN
UTB 14158RH	1.2	30	493	2.2

For additional design information on seismic loading consult UCAN's Technical Manual, Section 2.5

INSTALLATION INSTRUCTIONS:



Nomenclature

d = Diameter of Anchor

h_{nom} = Minimum Nominal
Embedment

L_{anch} = Nominal Anchor Length

d_{bit} = Diameter of Drill Bit

h_{ef} = Effective Embedment

h_o = Minimum Hole Depth

1. Drill a hole into the base material to the required nominal embedment depth, using the correct size drill bit. The drill bit must meet the requirements of ANSI Standard B212.15-1994 (R2000).
2. Remove all dust and debris from hole using either a dust extractor, blow out pump, suction or compressed air.
3. Attach the specially designed TST RH torpedo setting tool to a rotary hammer drill, securely mount the screw anchor head into the socket and drive the anchor into the hole until the base of the TST comes in contact with the base material. The TST will disengage from the anchor.
4. Immediately stop, pull the tool from the anchor.
5. Complete the installation with about 1/4 turn using a torque wrench + 1/2" socket set at 19 ft- lbs.
6. Insert 3/8-16 UNC threaded rods or threaded bolt attachment to the internally threaded head of the anchor.
7. If an impact wrench is to be used, use the TST ADP attached to the TST RH tool and repeat steps 3-6.
8. If an impact wrench is used with a conventional socket extra care should be taken during the installation. STOP when the washer of the anchor is seated against the base material. DO NOT spin the socket off the anchor. Repeat steps 5-6.
9. Alternatively, one can use a torque wrench set at 19 ft-lbs + a deep 1/2" hex socket to perform the installation.

RECOMMENDATIONS:

- Do not exceed the recommended installation torque (19 ft. lbs.).
- If the anchor is driven with a powered impact wrench, disengage it when the head of the anchor comes in contact with the base material and finish the installation manually by using a hand torque wrench.