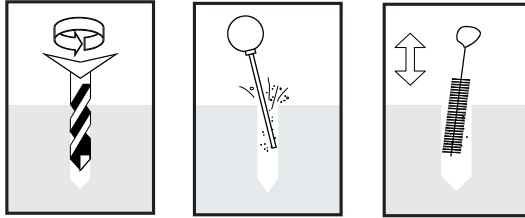


A) Hole Preparation

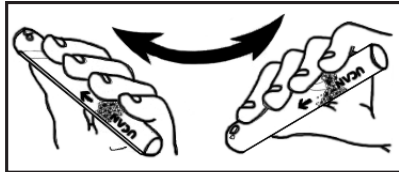


1. Drill hole to proper diameter and depth.
2. Blow out dust from the hole.
3. Brush the hole with a nylon brush then blow out the dust from the hole again. The hole should be completely clean and free of dust and debris.

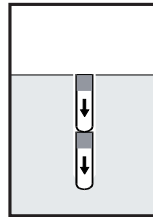
VERY IMPORTANT

Holes must be clean and free of dust and debris prior to inserting the capsule in the hole.

B) Capsule Installation



5. Mark the anchor rod or reinforcing bar with the correct embedment depth.

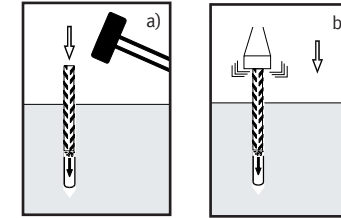


4. Inspect capsule. At room temperature, the resin should flow unimpeded inside the capsule. Damaged capsules should not be used.
6. For the HAC20L and the HAC30, insert the capsule into the hole with the printed arrow pointing towards the bottom of the hole. The HAC10-HAC20 capsules may be inserted either way up.

Installation Details

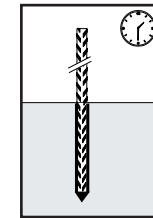
Hammer Cap	Minimum Embedment (Inch)					
	Threaded Rod			Reinforcing Bar		
	Size	Hole Dia.	Emb.	Size	Hole Dia.	Emb.
HAC10	3/8	7/16	3-1/2			
HAC12	1/2	9/16	4	10M	9/16	4
HAC16	5/8	3/4	5	15M	3/4	5
HAC20	3/4	7/8	5-1/2	20M	61/64	6
HAC20L	3/4	7/8	6-3/4	20M	61/64	7-1/4
	7/8	1	6-1/2			
HAC24	1	1-1/8	8	25M	1-1/4	8
HAC30	1-1/4	1-1/2	13	30M	1-3/4	4

C) Anchoring Into Solid Base Material

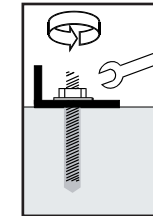


7. Install the cleaned rod or reinforcing bar (free of any oil, grease or oxidation) either (a) manually, using a hammer, or (b) with a power tool. (The rotating mechanism should be deactivated).

ROTATION IS NOT REQUIRED



8. Do not disturb the anchor (dowel) before the specified curing time has lapsed. Temperatures shown are concrete temperatures. Damp hole installation requires longer curing time.



9. Observe recommended torque values when installing an anchor rod.

INSTALLATION TORQUE

Anchor Rod Size	ft x lbs	Nm
3/8"	9	20
1/2"	16	40
5/8"	35	80
3/4"	75	150
7/8"	95	170
1"	110	210
1-1/4"	225	400

CURING TIMES

Temperature	Curing Time Dry Hole Installation	Curing Time Damp Hole Installation
over 20°C (over 68°F)	10 Minutes	30 Minutes
10 - 20° (50 - 68°F)	20 Minutes	1 Hour
0 - 10°C (32 - 50°F)	1 Hour	3 Hours
-5 - 0° (23 - 32°F)	5 Hours	n/a