

VMZ Internal Thread Injection System



Available Materials

Carbon Steel, Zinc Plated

Features/Advantages

- Can be installed using a construction grade single tube tool
- The fixture is easily removed
- Closer anchor spacing and edge distance than with drop-in anchors
- Rated for cracked or un-cracked concrete
- Eliminates trip hazard by using finished head bolts
- Ultimate loads are derived from installation in un-cracked concrete

Order Code Carbon Steel	Anchor size	Min Hole Depth (inch)	Embed Depth (inch)	Install Torque (ft-lbs)	Drill Dia (inch)	4000 psi Tension* (lbf)	Conc Shear* (lbf)
301415I	1/4	1 5/8	1 5/8	6	3/8	3344	1810
305162I	5/16	2 1/2	2 3/8	7	1/2	7424	3383
303831I	3/8	3	2 3/4	11	9/16	9255	4980
301241I	1/2	3 3/4	3 1/2	18	3/4	15,215	8881
305861I	5/8	6 1/4	5 7/8	37	1	32,334	16,799
303471I	3/4	6 5/8	6 1/8	59	1	30,100	23,780

*Ultimate load values are based on using VMZ adhesive with inserts.
Be sure to use a bolt with suitable tensile strength to attain loads.



Applications:

Heavy duty anchoring where the use of internal thread is required and/or anchor spacing and edge distance are closer than those needed for drop-in anchors: Steel structures, brackets, railings, posts, columns, ladders, gates, etc.

Base Mtl Temp	Gel Time	Cure Dry Hole	Cure Wet Hole
-5 C/23 F	1.5 Hr	6 Hr	12 Hr
0 C/32 F	45 Min	3 Hr	6 Hr
5 C/41 F	20 Min	2 Hr	4 Hr
10 C/50 F	12 Min	1.3 Hr	2.5 Hr
20 C/68 F	6 Min	45 Min	1.5 Hr
30 C/86 F	4 Min	25 Min	50 Min
35 C/95 F	2 Min	20 Min	40 Min
40 C/104 F	1,4 Min	15 Min	30 Min

INSTALLATION

- 1) Select the correct diameter drill bit and drill the hole to the required hole depth.
- 2) Remove the debris from the hole using compressed air and a brush.
- 3) Inject VMZ adhesive into the hole starting at the bottom and working outward to avoid air pockets.
- 4) Place the anchor in the hole using a slight twisting motion until it is flush with the concrete.
- 5) Do not disturb the anchor until full cure has been reached as indicated by the table above.
- 6) Clear excess adhesive from the hole opening using a chisel before removing rubber plug. Place fixture over the hole and start the bolt until finger tight. Tighten bolt to appropriate torque to complete the fastening.

