

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

CONSIDERATIONS

- 18 month shelf life

APPLICATIONS:

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



M28252601

VMZ Adhesive Single Tube Only

ORDER DETAIL

Order Code Carbon Steel	Anchor Size	Min Hole Depth (Inch)	Thread Length (Inch)	Embed Depth (Inch)	Install Torque (ft-lbs)	Drill Diameter (Inch)	4000 psi Tension* (lbf)	Concrete Shear* (lbf)	Anchors/ Cartridge
3014151	1/4"	1-5/8	1/2	1-5/8	6	3/8	3344	1810	123
3051621	5/16"	2-1/2	3/4	2-3/8	7	1/2	7424	3383	53.7
3038311	3/8"	3	1	2-3/4	11	9/16	9255	4980	42.6
3012411	1/2"	3-3/4	1	3-1/2	18	3/4	15,215	8881	20.1
3058611	5/8"	6-1/4	1-1/2	5-7/8	37	1	32,334	16,799	5.4
3034711	3/4"	6-5/8	1-1/2	6-1/8	59	1	30,100	23,780	9.5

Base Material Temperature	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	1.5 Min	15 Min	30 Min

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

*Also available in metric 316 Stainless Steel

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 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.
- 7 Place fixture over the hole and start the bolt until finger tight.
- 8 Tighten bolt to appropriate torque to complete the fastening.

