

INSTALLATION INSTRUCTIONS FOR EXISTING CONCRETE

MEGA MAX STAINLESS STEEL HINGED SURFACE ANCHOR

ANCHOR TYPE: 5/8" DROP-IN WEDGE ANCHORS

CONCRETE TYPE: 4000 PSI reinforced with number 5 rebar, spaced 12" on center, on both the top and bottom faces, and oriented in both the longitudinal and transverse directions.

MINIMUM THICKNESS: 7"

MINIMUM FOOTING: 22 cubic feet

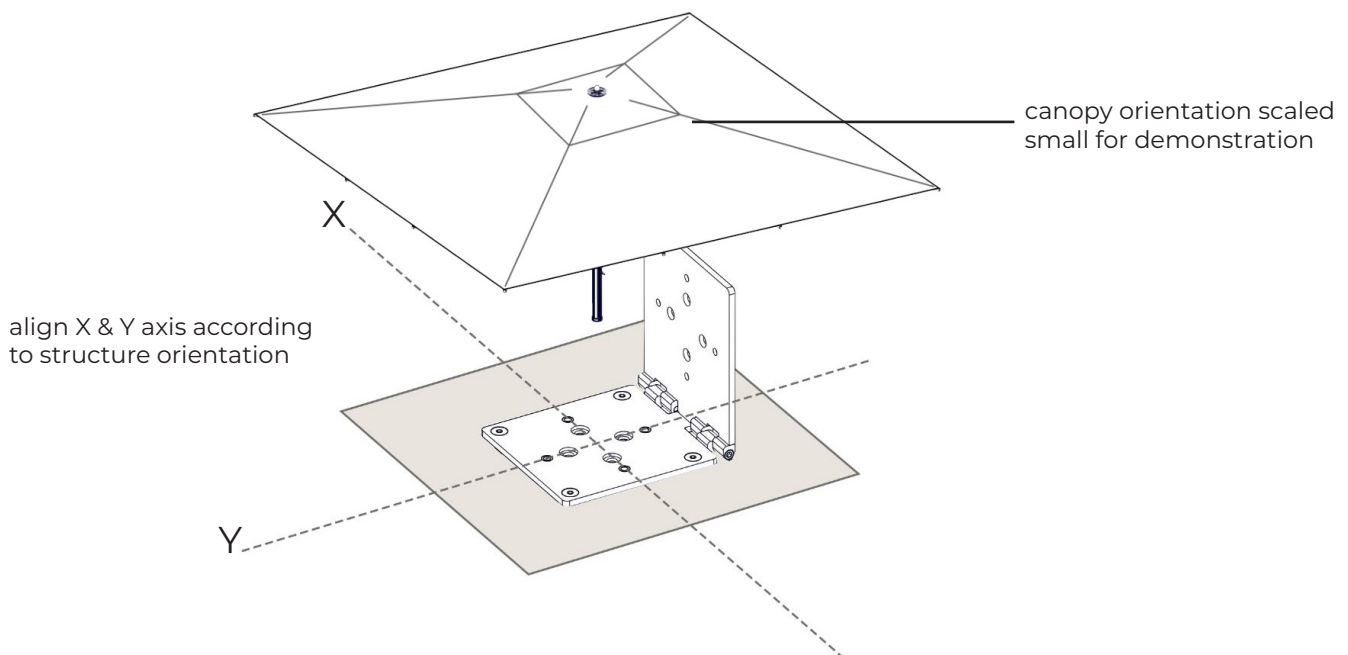
MINIMUM DISTANCE TO CONCRETE EDGE: 12"

REQUIRE TOOLS: Allen Keys 3/8" & 5/16", wrench socket 3/4"

MAXIMUM WIND LOAD: 45 MPH

Step 1.

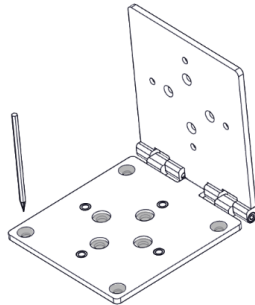
Determine the location of the Stainless Steel Hinged Surface Anchor.



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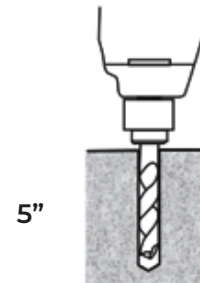
Step 2.

Using the Stainless Steel Hinged Surface Anchor as a template, mark the four corner and four inner holes for drilling.



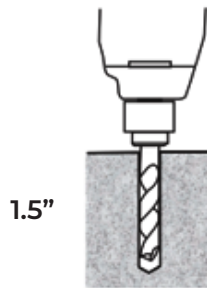
Step 3.

Using a 7/8" drill bit, drill the four corner holes 5" deep. Do not ream the hole or allow the drill to wobble. Drill the hole perpendicular to the work surface.



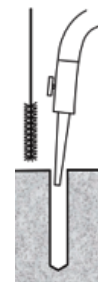
Step 4.

Drill four inside holes using a 1" drill bit, 1.5" deep.



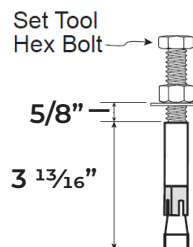
Step 5.

Thoroughly clean the holes using compressed air and a nylon brush. An unclean hole may compromise anchor performance.



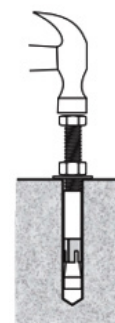
Step 6.

Set the anchor embedment depth. Fully thread the setting tool (sacrificial hex bolt) with assembled nut and washer into the anchor. Set the distance between the top of the anchor and the bottom of the nut to 5/8".



Step 7.

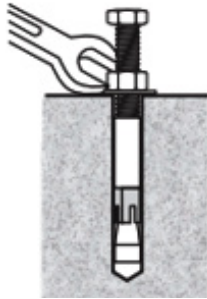
Place the anchor into the hole and hammer downward on the setting tool until the nut and washer makes contact with surface of the concrete.



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Step 8.

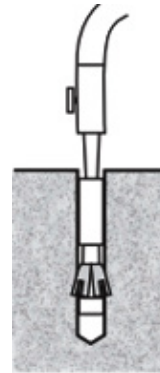
To set the anchor tighten the nut while holding the bolt head (to assure the anchor does not spin in place).



Note: Installation torque 90ft lbs. (three full turns)
Do not use an impact wrench for this step.

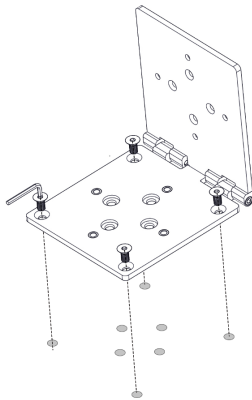
Step 9.

Once the anchor is set remove the cap screw and clear the anchor with compressed air to remove any concrete dust from the threads.



Step 10.

After the anchors are installed, fasten the Stainless Steel Hinged Surface Anchor with the provided 5/8" bolts. Use Loctite and make sure to tighten all four bolts securely.



NOTE: Always wear safety glasses. Follow drill manufacturer's instructions.
Use only solid carbide-tipped drill bits meeting ANSI B212.15 diameter standards.

*** While the capacity of the anchors may be sufficient in the product literature, there are many variables which would need to be reviewed on a case-by-case basis to verify the existing structure.**

NOTE: If umbrella is expected to be exposed to winds of up to 75 MPH, for increased wind loads the Mega Max Stainless Steel Hinged Surface Anchor requires the J-bolt installation method (reference 1009354).