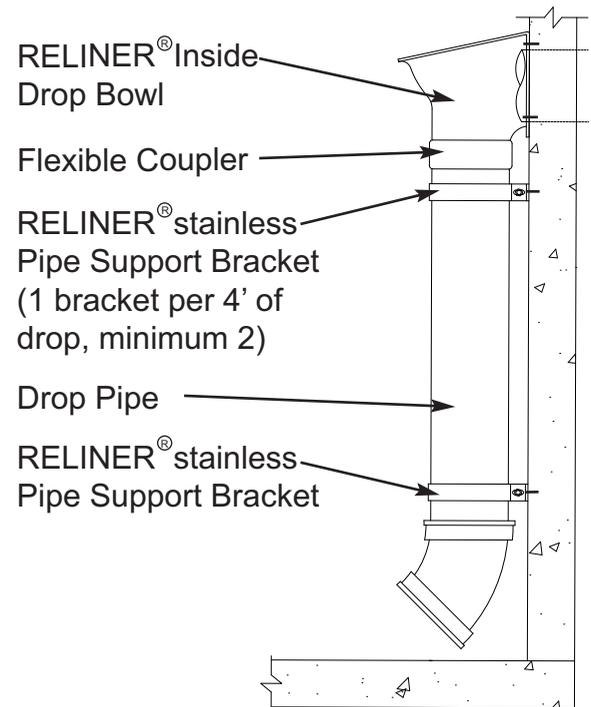


RELINER[®] / Duran Inc.
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INSIDE DROP SYSTEM
by RELINER[®] / Duran Inc.
INSTALLATION INSTRUCTIONS

1. Install RELINER[®] Drop Bowl in Structure
MUST BE ANCHORED TO WALL

- a. Drill appropriate number of holes for 3/8" bolts in the Drop Bowl mounting flange. (4 bolts for 4"-10" outlets, 6 bolts for 12"-18" outlets, 8 bolts for 21" outlets, 10 bolts for 24" outlets.)
- b. Position Drop Bowl on the wall with the invert centered approximately 1" below the incoming pipe. Mark the location of bolts on the structure wall.
- c. Trim incoming pipe so as not to protrude more than 2" into structure. For improved flow, cut a "V" shaped notch in the bottom edge of the incoming pipe.
- d. Drill structure wall for anchor bolts, 3/4" or 3/8" bit depending on anchor bolts purchased. 3/8" x 1" Tamp-in Anchoring Assemblies recommended for Drop Bowls with 4" through 18" outlets. 3" Wedge Anchors recommended for Drop Bowls with 21" and 24" outlets. (See reverse side for anchor bolt installation instructions).



2. Install drop pipe using RELINER[®] Stainless Steel Pipe Support Brackets anchored to wall

- a. Cut drop pipe to length. Pipe size must match the Drop Bowl outlet size and the type of pipe must match the brackets ordered. Use a minimum of 2 brackets with a maximum spacing of 4'.
- b. Loosen brackets and slide them onto the pipe. Tighten brackets enough to hold them in place. Install flexible pipe coupler (FERNCO recommended) on top end of pipe.
- c. Position drop pipe onto the Drop Bowl outlet and mark the wall for anchor bolt locations.
- d. Drill structure wall for anchor bolts, 3/4" or 3/8" bit depending on anchor bolts purchased. (See reverse side for anchor bolt installation instructions.)
- e. Install drop pipe, brackets, and anchor bolts. Tighten all components including the flexible coupler.
- f. Install appropriate elbow to provide smooth transition into channel flow, 45 deg recommended. Angled to the direction of flow.

Anchor Bolt Installation Instructions

1. Tamp-In Anchoring Assembly

(RELINER[®] Part#s ANCH or 316/ANCH)

3/8x1"x16 stainless hex cap screw full thread with lead tamp-in expansion anchor.

- a. Drill $\frac{3}{4}$ " hole in base material to the required depth (approximately 1-1/4")
- b. Blow hole clean of dust and other material.
- c. Insert anchor into the hole (Lead shield out)
- d. Position a setting tool or 9/16 socket against the lead shield rim.
- e. Set the anchor by driving the lead sleeve over the cone using several sharp hammer blows.
- f. Position fixture, insert bolt and tighten.

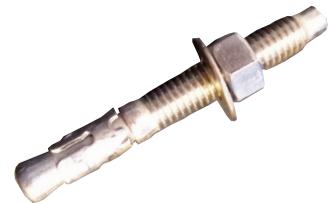


2. Concrete Wedge Anchors

(RELINER[®] Part#s Wedge Anchor, 316/Wedge , Dom-WedgeANCH, DOM-316/Wedge)

Suggested for Drop Bowls with 21" – 24" outlets and associated brackets. Dom-Wedge ANCH & Dom-316/Wedge are AIS certifiable and can be used for any Drop Bowl / Bracket installation.

- a. Drill a $\frac{3}{8}$ " hole in the concrete to the desired depth of embedment.
- b. Blow hole clean of dust and other material.
- c. Place nut on the end of the wedge anchor to protect the threads during installation.
- d. Drive wedge anchor into drilled hole through the fixture so that the nut is flush with the fixture.
- e. Tighten nut until wrench resistance is felt (approximately 3 to 4 turns of the nut after snugged up)



3. Stainless Drive Screw for Fiberglass Manhole Installation **(RELINER[®] Part#s Fiberglass Anchor)**

- a. Drill a $\frac{1}{4}$ " pilot hole in the base material.
- b. Insert the self-tapping $\frac{3}{8}$ " stainless hex head screw and turn clockwise.
- c. Run the screw in until the head flange is in contact with the structure.
- d. Remove the screw and install the part. Do not over-tighten, around 10 to 15# of torque is all that is required. (If ground water is high, set screws with 3M 5200 sealant)

