



Z100 FLOFORCE™ ROOF DRAIN GENERAL INSTALLATION INSTRUCTIONS

Design and Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice

1. Install and secure the roof drain body into roof structure as required to prevent any vertical or horizontal movement. The flange of the drain body must be installed so that it is no higher than the roof membrane, to prevent retention of water on the roof and affect flow rate through the drain. Likewise, the flange should not be installed any lower than what is approved by the involved roofing products of the project, to prevent a detrimental effect on the flow rate of the drain.
2. Install roof insulation (as required) and secure a waterproofing membrane to the roof drain body with the clamping collar.
 - a. Apply the water proofing membrane fully over the roof drain.
 - b. Locate the clamping collar tappings in the top surface of the drain body and create bolt clearance holes in the membrane at corresponding locations.
 - c. Using appropriate manufacturer's sealant seal the membrane to the drain body per manufacturer's instructions.
 - d. Align the clamping collar bolt holes with the drain body tappings and set the collar onto the membrane and body.
 - e. Insert clamping collar hardware through the holes and hand tighten down in a star pattern progressively.
 - f. If reinforced membranes are used or the membrane is suspended above drain, and hardware is used to pull membrane down to drain body, hardware must be tightened in a progressive cross-body pattern. **Warning: Forcing membrane down to drain body using only two opposite bolts can break the clamping collar and is not covered under product warranty.**
 - g. Tighten the bolts securely in the patterns shown (2 thru 4 [51 thru 102] outlets Fig. 1a)(6 thru 8 [152 thru 203] outlets Fig. 1b) to 25 ft-lbs maximum torque. **Warning: Over-torque of the bolts can cause damage to the clamping collar and/or drain body, and compromise sealing of the membrane. DO NOT use an impact driver to tighten down the hardware.**

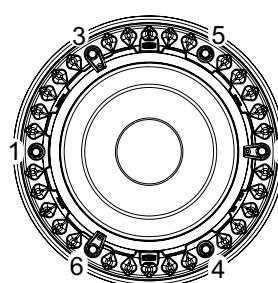
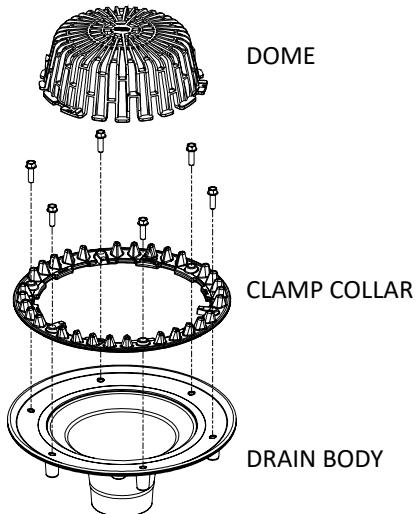


Fig. 1a

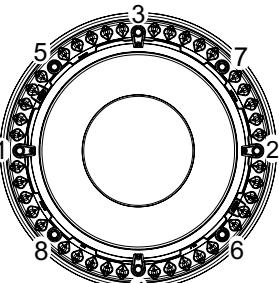


Fig. 1b

3. Cut the membrane as per the roof membrane manufacturer's requirements in the center of the clamping collar. Continue to cut outward until the precast cutting edge in the drain body is located (Fig 2). Once precast edge is found, cut out circular section of membrane by following the cutting edge. **Warning: Failure to properly cut the membrane along the prescribed cut edge of the drain body may result in decreased flow performance of the roof drain.**
4. Align the dome inside of the clamping collar and rotate clockwise until dome is engaged and secured (Fig. 3a, Fig 3b).

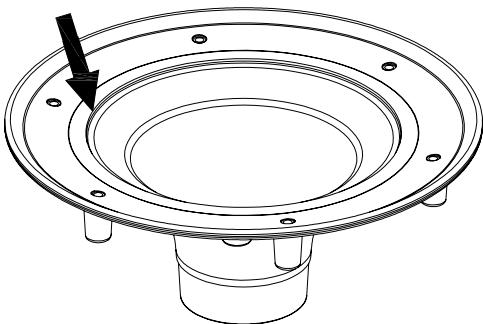


Fig. 2

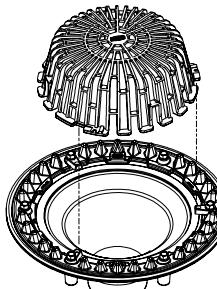


Fig. 3a

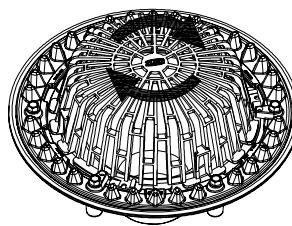


Fig. 3b

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