



# Z100F-85 FLOFORCE™ ROOF DRAIN WITH PERFORATED EXTENSION 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.
2. Insert the provided threaded rod into the corresponding tappings on the top surface of the drain body. Tighten the rods down until they are hand-tight.
3. Install and secure a waterproofing membrane to the roof drain body with the secondary clamping collar ( Fig 1 ).
  - a. Apply the water proofing membrane fully over the roof drain.
  - b. Locate the protruding threaded rods from 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 protruding threaded rods and set the collar onto the membrane and body.
  - e. Apply provided jam nuts onto the threaded rods 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 ( See Form #RD139 ). **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 jam nuts securely to 25 ft-lbs. maximum torque to compress the applied roof membrane. **Warning: Over-torque of the nuts can cause damage to the clamping collar and/or drain body, and compromise sealing of the membrane.**
4. 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.**
5. Place a second set of jam nuts on each of the threaded rods, making sure that the nuts are oriented with flats facing upwards (Fig. 3). These nuts will support the top flange of the extension. Thread the nuts down below the height of where the extension flange will be located.

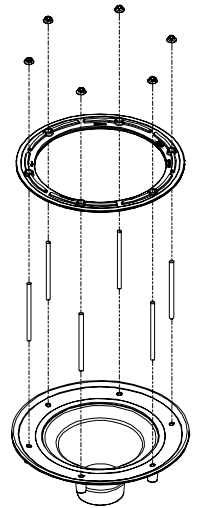


Fig. 1

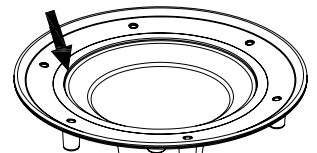


Fig. 2

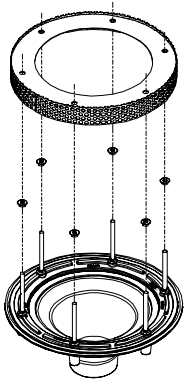


Fig. 3

6. Align the extension so that the bolt holes correspond with the threaded rods. Slide the extension onto the assembly until it rests on the secondary clamp collar.
7. Making sure that the extension fully rests on the secondary clamp collar, thread the jam nuts of step 5 upward on the thread rods until each comes in contact with the underside of the extension flange.
8. Align the gravel guard with the protruding threaded rods and set onto the perforated extension (Fig. 4).
9. Place a third set of jam nuts on each threaded rod and hand-tighten down until snug. While holding each jam nut on the underside of the extension in place, tighten the top jam nuts securely in a progressive until the gravel guard is secured.
10. Install roof insulation (as required) to flush with the top outer flange of the extension body.
11. Align the dome inside of the clamping collar and rotate clockwise until dome is engaged and secured.

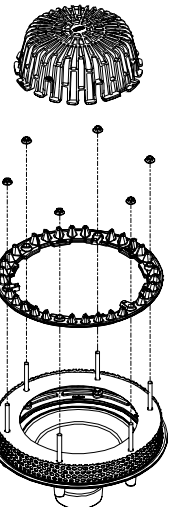


Fig. 4

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