

# ZURN® Z150F-EA FLOFORCE™ PROMENADE DECK DRAIN WITH ADJUSTABLE EXTENSION INSTALLATION INSTRUCTIONS

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

**Step 1 –** Install and secure the roof drain body into the subsurface 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 water retention on the roof. Likewise, the flange should not be installed any lower than what is approved by the involved roofing products of the project.

**Step 2 –** Position the flat extension gasket onto the top surface of the drain body so that the bolt holes in the gasket correspond with the tappings in the body. Ensure that the gasket is not twisted, folded, or misaligned.

**Step 3 –** Place the extension collar onto the gasket, aligning the bolt holes in the collar with the bolt holes in the gasket.

**Step 4 –** Insert extension collar hardware through the holes and hand tighten down in a star pattern progressively. (Fig. 1a, Fig. 1b)

**Step 5 –** Tighten the bolts securely in a progressive star pattern (Fig. 1a shows 2 thru 4 [51 thru 102] outlets and Fig. 1b shows 6 thru 8 [152 thru 203] outlets) to 25 ft-lbs maximum torque.

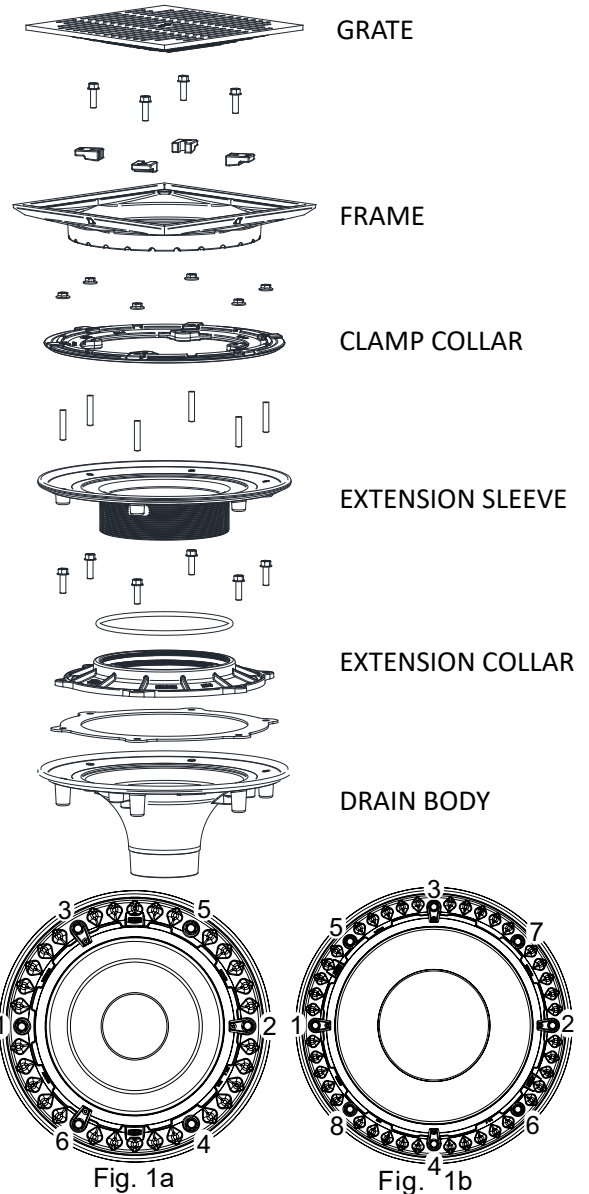
**CAUTION: Over-torque of the bolts can cause damage to the clamping collar and/or drain body, and compromise sealing of the gasket. DO NOT use an impact driver to tighten down the hardware.**

**Step 6 –** Using lubricant provided, lubricate the o-ring and place the o-ring into the internal groove of the extension collar. Ensure that the o-ring is not crimped, twisted or misaligned.

**Step 7 –** Lubricate the external threads of the adjustable extension sleeve and thread the sleeve down into the extension collar. Ensure that the sleeve is set at a sufficient height to engage and properly compress the o-ring.

**Note: Failure to set the extension sleeve within the defined allowable extension range may result in failure to seal around the o-ring (See Z150F-EA specification sheet).**

**Step 8 –** Insert the threaded studs provided into each bolt hole of the extension sleeve and thread down until hand-tight.



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Page 1 of 2

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Step 9 – Install roof insulation (as required) and secure a waterproofing membrane to the extension sleeve with the clamping collar.

- Apply the water proofing membrane fully over the roof drain extension sleeve.
- Create bolt clearance holes in the membrane at corresponding stud locations.
- Seal the membrane to the drain body per manufacturer's instructions.
- Align the clamping collar bolt holes with the threaded studs and set the collar onto the membrane and extension sleeve.
- Apply provided jam nuts onto the threaded studs and hand tighten down in a star pattern progressively.
- 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 star pattern (See Form #RD139).

**CAUTION: Forcing membrane down to drain body using only two opposite bolts can break the clamping collar and is not covered under product warranty.**

- Tighten the nuts securely in a progressive star pattern to 25 ft-lbs maximum torque.  
**CAUTION: Over-torque of the nuts can cause damage to the clamping collar and/or extension sleeve, and compromise sealing of the membrane. DO NOT use an impact driver to tighten down the hardware.**

Step 10 – 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 extension body is located (Fig. 2). Once precast edge is found, cut out circular section of membrane by following the cutting edge.

**Note: Failure to properly cut the membrane along the prescribed cut edge of the extension body may result in decreased flow performance of the drain.**

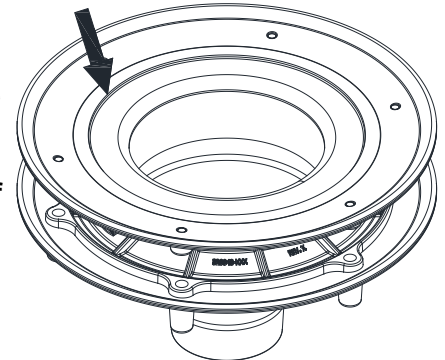


Fig. 2

Step 11 – Set the rotatable frame down on top of the clamping collar, center the frame, and align the orientation of the frame as necessary.

Step 12 – Place the four clamp dogs on top of the bottom rim of the frame and align the slots in each clamp dog with the tappings in the clamping collar. Insert a bolt through each clamp dog slot and thread into the clamping collar. (Fig. 3) Hand-tighten the bolts until final alignment adjustments are made to the frame. Once the frame is in proper position, tighten the four clamp dog bolts down to a torque of 20-25 ft-lbs.

**Note: Adjustments to the orientation of the frame can be made prior to finish of roof surface.**

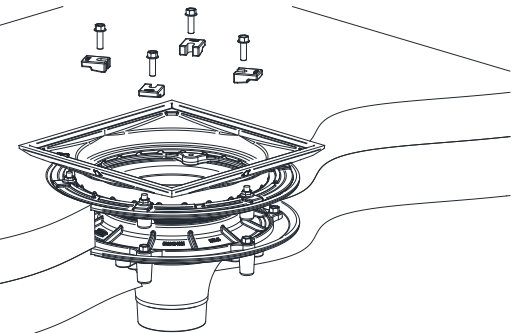


Fig. 3

Step 13 – Complete construction of the promenade deck surface as required so that finished roof surface is flush with top of frame. (Fig. 4)

Step 14 – Set the loose grate onto the seating surface of the frame and center.

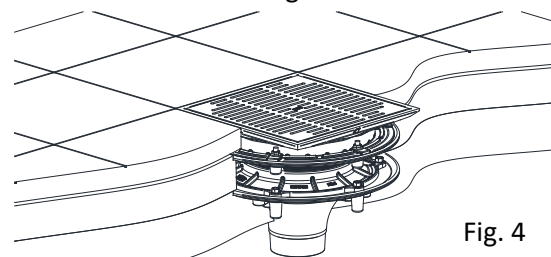


Fig. 4

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Page 2 of 2