



# Z150F-DP FLOFORCE™ PROMENADE DECK DRAIN WITH DECK PLATE INSTALLATION INSTRUCTIONS

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

Step 1 - Create a square opening in the roof deck to receive the drain assembly. Opening size should be 18 x 18 [457 x 457] min for 2 thru 4 [51 thru 102] outlets and 22 x 22 [559 x 559] min for 6 thru 8 [152 thru 203] outlets.

Step 2 - Place drain body on a flat surface upside down with the outlet facing upwards.

Step 3 - Align the deck plate so that inside circular depression is facing downwards.

Step 4 - Position the deck plate onto the underside of the body such that the bosses on the underside of the body align with the clearance holes in the deck plate, and the tappings align with the appropriate slots in the deck plate.

Step 5 - Using hardware provided, secure the drain body to the deck plate by threading bolts into the underside of the drain body and tightening securely.

Step 6 - Turn the body / deck plate assembly over and place it into the precut opening in the roof, aligning the outer deck plate attachment slots in suitable positions to secure to the deck.

Step 7 - Fasten the assembly to the roof deck with self-tapping screws (provided by others). (Fig 1)

Step 8 - Install and secure a waterproofing membrane to the roof body with the clamping collar.

- Apply the water proofing membrane fully over the roof drain.
- Locate the clamping collar tappings in the top surface of the drain body and create bolt clearance holes in the membrane at corresponding locations.
- Seal the membrane to the drain body per manufacturer's instructions.
- Align the clamping collar bolt holes with the drain body tappings and set the collar onto the membrane and body.
- Insert clamping collar hardware through the holes and hand tighten down in a star pattern progressively. (Fig 2a, Fig 2b)
- Tighten the bolts securely in the patterns shown (Fig. 2a shows 2 thru 4 [51 thru 102] outlets and Fig. 2b 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 membrane. DO NOT use an impact driver to tighten down the hardware.**

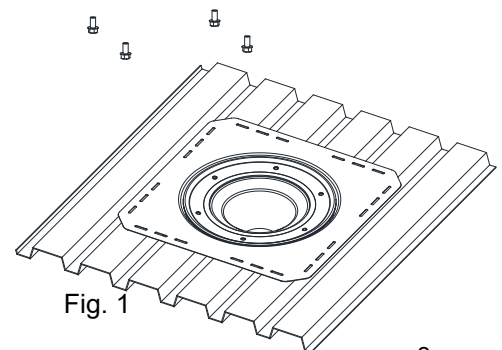
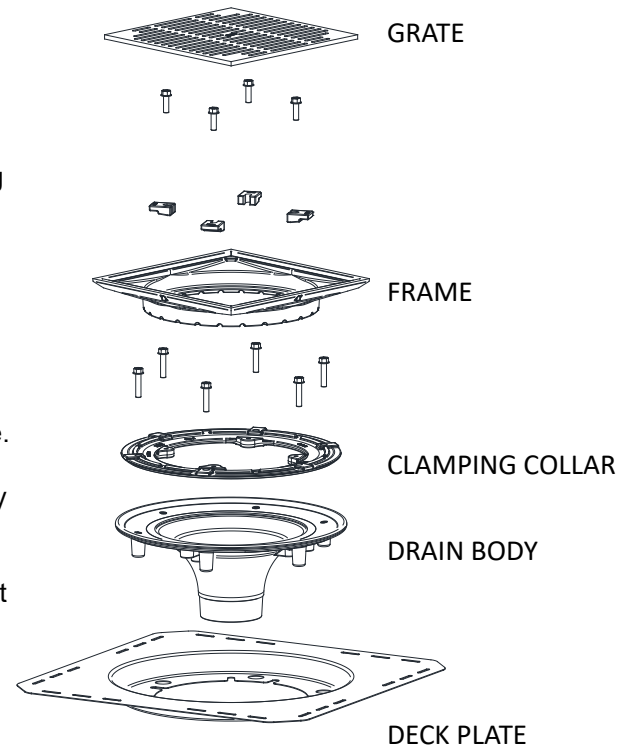


Fig. 1

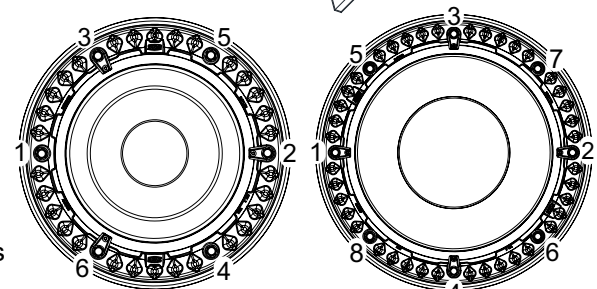


Fig. 2a

Fig. 2b

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Step 9 - 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 3). Once the precast edge is found, cut out circular section of the membrane by following the cutting edge and cutting around the four securing bosses spaced inward on the collar.

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

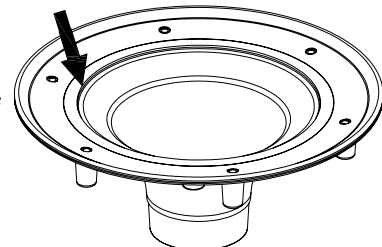


Fig. 3

Step 10 - Set the rotatable frame down on top of the clamping collar, center the frame, and align the orientation of the frame as necessary.

Step 11 - 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. (Fig. 4) Insert a bolt through each clamp dog slot and thread into the clamping collar. 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.

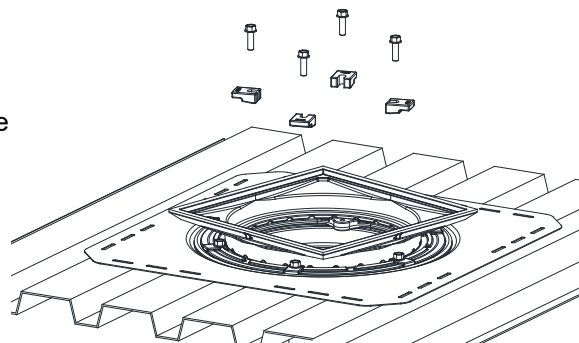


Fig. 4

Step 12 - Complete construction of the promenade deck surface as required so that finished roof surface is flush with top of frame. (Fig. 5)

Step 13 - Set the loose grate onto the seating surface of the frame and center.

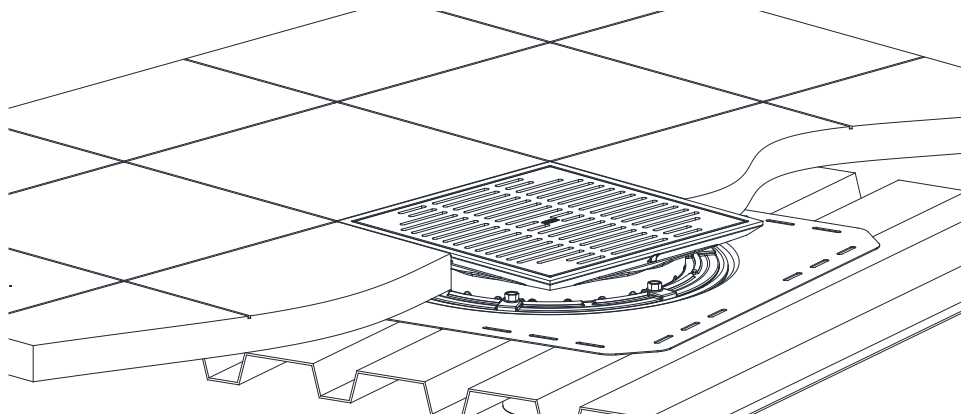


Fig. 5

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