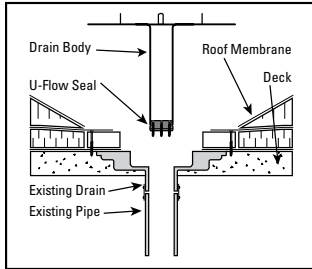


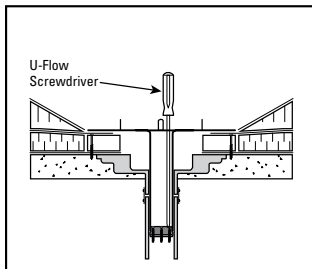
For use with TPO membranes.

Job Preparation: The existing leader pipe shall be cleaned of excess bitumen build-up, dirt and debris. Remove the clamping ring assembly and bolts from the existing drain and discard. If required, comply with roof manufacturer's directions for additional cleaning or detailing Heavy Duty TPO.



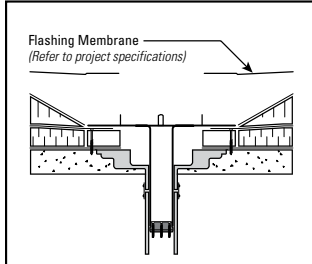
Step 1

Examine the existing water leader to make sure there are no elbows that prevent the drain stem from being fully inserted into the pipe. (If an elbow is present, follow directions on reverse for shortening drain stem.) Insert U-Flow® Seal into end of drain stem and tighten screws enough to hold the seal in place during insertion into the existing drain pipe. Insert assembled drain into existing leader pipe until flange lies flush on roof membrane.



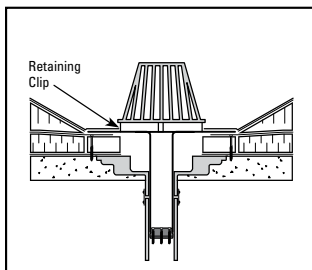
Step 2

Alternately tighten seal compression ring screws with the U-Flow Screwdriver until hand tight. The Heavy Duty TPO RetroDrain is correctly installed when pressure placed on the drain body results in no vertical movement. Do not overtighten screws.



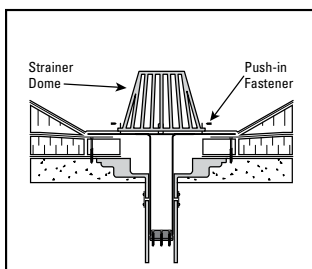
Step 3

Secure the drain flange to the roof deck/nailed using a minimum of three pan-head fasteners, evenly spaced around the flange. The flashing membrane must cover and extend past the fastener head. Flashing membrane must be installed per roof membrane manufacturer's detail. Hot air weld the flashing membrane to the drain flange and the field membrane as detailed.



Step 4

Install the strainer dome onto the retaining clips.



Step 5

Insert nylon push-in fastener into the appropriate height hole in each of the three retaining clips.

Refer to the Material Safety Data Sheet and product label prior to using this product.

How to Shorten a Heavy Duty TPO RetroFit Drain: In some applications it may be necessary to shorten the drain's stem as manufactured.

Step 1

Make sure there is at least 4" of clear vertical distance in the existing pipe to accommodate the drain. Cut drain stem to desired length and insert U-Flow Seal. Note: Leave at least 2.5" of the drain stem to accommodate the seal. See Figure 1 below.

Step 2

Insert the U-Flow Seal in the cut drain stem and tighten the seal screws. Once the drain and seal have been assembled, insert it into the existing water leader and complete the assembly following installation steps 2 through 5.

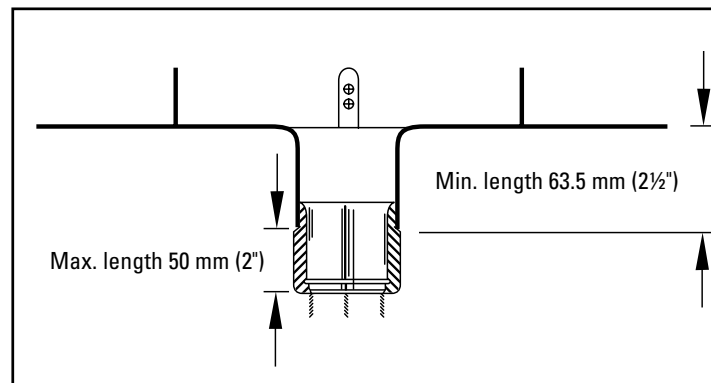


Figure 1: The minimum length of the metal retrofit drain stem with a U-Flow Seal Assembly.

Refer to the Material Safety Data Sheet and product label prior to using this product.