

# Flex Retrofit Drain Clamping Ring Model

## PRODUCT DATA SPECIFICATIONS

### PRODUCT DESCRIPTION

The Flex Retrofit Drain Clamping Ring Model is constructed of aluminum and stainless steel for durability and designed for use with single ply, BUR and modified bitumen roofing systems. The drain features an extra large flange for positive attachment of the roof flashing membrane, a recessed metal clamping ring for roof termination and proper drainage, along with an oversized drain strainer to minimize damming. The RAC Backflow Compression Seal is compatible with PVC or cast iron leader pipes and is available in 3-in., 4-in., 5-in. and 6-in. sizes.

### FEATURES & BENEFITS

- Drain flange insures consistent, stable attachment to the substrate outside of the existing drain bowl and positive attachment of flashing membrane.
- Strainer dome features a low profile base to promote drainage and the large diameter provides added flow capacity and minimizes damming.
- 9-in. long drain stem accommodates most existing field conditions with custom drain pipe lengths available for quick turn elbows or deep existing drain bowls.
- The aluminum clamping ring is recessed into the drain flange to maximize drainage and is secured to stainless steel studs.
- The RAC Backflow Compression Seal is quickly activated at drain flange level and protects the roofing system and building contents from water backup damage.

- Saves time and money by allowing easy installation from the rooftop without disturbing occupants.

### APPLICATION

Flex Retrofit Drains are designed to replace existing drains in reroofing applications. Installed from the roof surface, Flex Retrofit Drains are engineered to be installed without removing the existing plumbing or fixture while providing a watertight connection to the roof system and the existing plumbing.

### APPROVALS & STANDARDS



**ANSI/SPRI RD-1** is a national performance standard for retrofit roof drains. While most retrofit drains are not tested to this standard, the Flex Retrofit Drain Clamping Ring Model with RAC Backflow Compression Seal exceeds the standard, which requires that the seal hold a 10-ft. column of water for 24 hours without leaking.



**IAPMO PS 97-96** – a standard plumbing industry test designed to check for leakage at connections under a 10 foot head of water for a 24 hour period. This test was performed by the Smith-Emery Company, a nationally recognized independent test laboratory providing physical testing of construction related materials. The Flex Retrofit Drain Clamping Ring Model produced no leakage.



### PHYSICAL DATA

The data below is constant for all Flex Retrofit Drain Clamping Ring Models.

DRAIN BODY	SEAL
.080" thick aluminum	Watertight RAC Backflow Compression Seal requires 7/16" wrench
FLANGE	STRAINER DOME
18" x 18" with sump area	14" diameter, 4" high, made of .080" thick aluminum; vandal-resistant model available
STEM	CLAMP RING
9" length	.125" thick aluminum recessed

### ORDERING INFORMATION

CAT. NO.	SIZE	DOMES TYPE	PKG	DIMENSIONAL WEIGHT
8030	3"	Aluminum	Each	32 lbs.
8031	4"	Aluminum	Each	32 lbs.
8032	5"	Aluminum	Each	32 lbs.
8033	6"	Aluminum	Each	32 lbs.



Thermoplastic Single Ply and Multi-Ply Roofing Systems

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As with all building materials, it is the responsibility of the installer to review its usage with a design professional to confirm safety, compatibility and acceptance with the Flex Membrane roof system as well as local building codes.



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## INSTALLATION PROCEDURE

### FOR USE WITH

Flex Membrane roof systems.

### 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.

### STEP 1

**Important** – The aluminum activation cone may have settled into the backflow seal during shipping which may partially activate the seal. To deactivate the seal, simply push down on the top of the two backflow bolts. **Note:** The top of the tapered metal cone should remain inside the bottom of the urethane seal. Do not fully disengage the cone from the urethane seal.

### STEP 2

Lower the Retrofit Drain Assembly into the existing drain leader pipe until the underside of the drain flange sits flat on the substrate.

### STEP 3

Using the pre-punched holes in the perimeter of the flange, secure the drain flange to the substrate with appropriate fasteners.

### STEP 4

**Hand tighten** the  $\frac{7}{16}$ -in. bolts on the backflow rods to activate the seal. **Alternate tightening** between the bolts for an even seal expansion. Rods should be snug when fully activated. Do not overtighten.

### STEP 5

Install roofing material per Flex's drain flashing details.

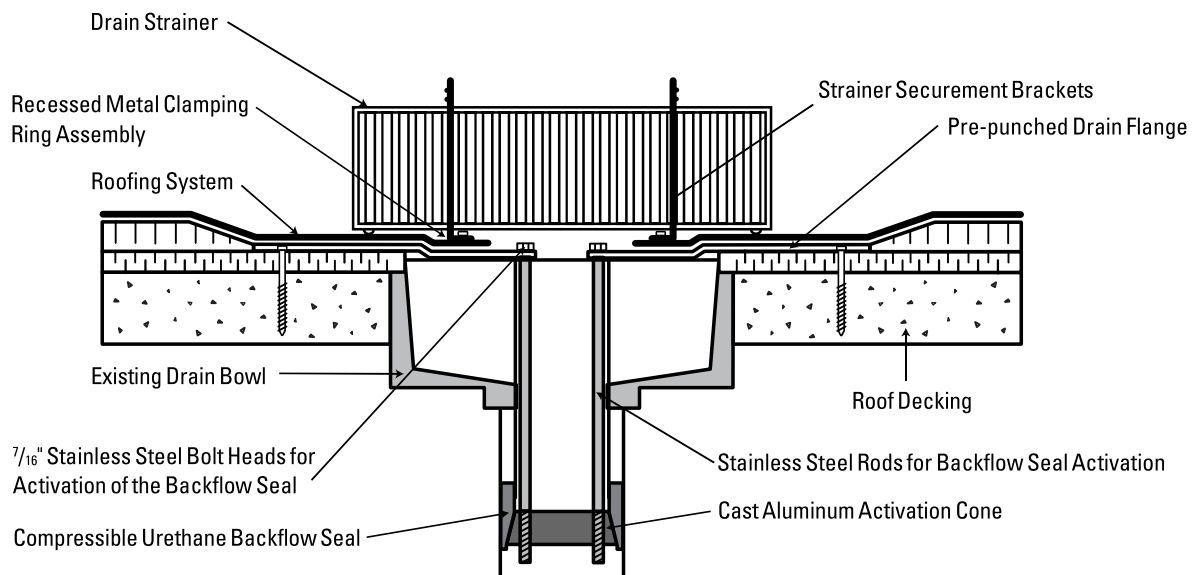
### STEP 6

Install the metal clamping ring over the flashing materials and secure in place by hand-tightening the lock nuts provided. Do not overtighten.

### STEP 7

Place the 1-in. long slots in the top of the strainer directly over the two strainer securement brackets by pressing the two brackets inward. Push down until strainer is at roof level. **Vandal Resistant Models have slightly different instructions which are included with the product.**

**For technical assistance contact Flex at 800-969-0108 or fax 610-916-9501.**



### SEAL EXPANSION CAPACITY

SIZE	O.D. OF PRE-EXPANDED SEAL	FIT INTO MIN. PIPE I.D.	FULLY EXPANDED
3"	2.75"	2.77"	3.12"
4"	3.85"	3.87"	4.20"
5"	4.81"	4.83"	5.12"
6"	5.85"	5.87"	6.30"

O.D. = Outside Diameter I.D. = Inside Diameter  
Due to manufacturing variances and job site inconsistencies, these figures are guidelines and are not guaranteed.

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