

Flex SpeedTite

PRODUCT DATA SPECIFICATIONS

When it comes to roof drainage, getting water off the roof is the name of the game. The Flex SpeedTite Drain with built-in Vortex Breaker Technology is designed for improved flow performance that rivals many traditional new connection drains.* SpeedTite Drains are code compliant and “drop-in-ready” for installation from the box, and feature a mechanical seal that exceeds the ANSI/SPRI RD1 standard for back-flow prevention.



FEATURES & BENEFITS

- Meets IPC and UPC code!
- Available in 3-, 4-, 5- and 6-inch diameters to accommodate most field conditions.
- Flex SpeedTite Drains flow like traditional new connection roof drains. The flow performance helps to get water – and dead load weight – off of the roof faster.
- The Vortex Breaker disrupts the slow draining effect of a vortex providing a smoother more consistent flow rate, and helping to eliminate “chugging” that can cause damage to plumbing systems.
- Flex SpeedTite Drains can be installed in minutes without any special tools, helping to save time and labor.
- The patented mechanical seal provides a symmetrical watertight connection with the drain leader and can be made watertight in seconds.
- Also available with a TPO or PVC coated flange for direct hot-air welding to the roof cover.
- Flex SpeedTite Drains feature a one-piece seamless body with an extra-large 17-in. flange for positive attachment of the roof flashing membrane.
- The heavy cast aluminum strainer dome and clamping ring provides long-term drain durability and will not rust.

APPROVALS & STANDARDS

ASME 112.6.4 & CAS-B79-08

All SpeedTite drains have been certified by QAI Laboratories to conform to ASME 112.6.4 and CAS-B79-08 standards, and meet both IPC and UPC codes.

ANSI/SPRI RD-1 is a national performance standard. OlyFlow® Drains – including the Flex SpeedTite Roof Drain – exceed the standard, which requires that the seal hold a 10-ft. (3 m) column of water for 24 hours without leaking

PHYSICAL DATA**

DRAIN BODY		SEAL	
11 Ga. (.125" / 3.18 mm) spun aluminum		Flex SpeedTite Mechanical Seal	
FLANGE		STRAINER DOME	
17" (432 mm) diameter with sump area		Cast aluminum	
STEM		CLAMP RING	
10" (254 mm) length		Cast aluminum (not in TPO- and PVC-coated models)	

**All dimensions are nominal.

PERFORMANCE VALUES				
WATER HEAD LEVEL IN	3" SPEEDTITE VOLUMETRIC FLOW RATE GPM	4" SPEEDTITE VOLUMETRIC FLOW RATE GPM	5" SPEEDTITE VOLUMETRIC FLOW RATE GPM	6" SPEEDTITE VOLUMETRIC FLOW RATE GPM
4	267	288	326	388
5	346	469	485	514
6	347	560	563	618

*Testing was performed by PRI Construction Materials Technologies, LLC of Tampa, FL as described in ASPE/IAPMO/ANSI Z1034-2015 Test Method for Evaluating Roof Drain Performance and conducted in accordance with Section 4.1 “Vertical-Pipe Roof-Drain Test.” Contact Flex Roofing Products for a copy of the test results.

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 roof cover manufacturer as well as local building codes.



Thermoplastic Single Ply and Multi-Ply Roofing Systems

Flex SpeedTite

INSTALLATION PROCEDURE

FOR USE WITH

All types of roof covers.

JOB PREPARATION

Remove existing strainer dome and clamping ring. Remove other existing drain components as required to enable the Flex SpeedTite Roof Drain flange to lie flush on roof membrane. Remove any debris or constricting materials in the existing drain pipe that interferes with proper installation. It is recommended to wire brush the interior leader in the area of seal contact to be as smooth as possible.

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, see "How to Shorten The Flex SpeedTite Roof Drain Stem.") Insert assembled drain into existing leader pipe until flange lies flush on roof membrane.

STEP 2

Tighten the wing nut on the top of the Flex red Vortex Breaker until hand tight. The Flex SpeedTite Roof Drain is correctly installed when pressure placed on drain body results in no vertical movement.

STEP 3

Secure the drain flange to the roof deck/nailer using a minimum of three pan-head fasteners, evenly spaced around the flange. The flashing membrane must cover and extend past the fastener head. A suggested way to prepare the flashing membrane is to use the interior of the clamp ring as a template for cutting a hole to the inside of the studs. Flashing membrane must be installed per roof membrane manufacturer's detail.

STEP 4: CLAMP RING MODEL

Place clamping ring over metal studs. Install stainless steel nut and lock washers tightening clamping ring against membrane flashing until secure.

STEP 5: CLAMP RING MODEL

Install strainer dome by aligning screw holes with the holes in the clamping ring. Secure with screws provided.

STEP 4: COATED MODEL

Hot air weld the flashing membrane to the drain flange and the field membrane.

STEP 5: COATED MODEL

Install the strainer dome onto the retaining clips, then insert nylon push-in fastener into the appropriate height hole in each of the three retaining clips.

HOW TO SHORTEN THE FLEX SPEEDTITE ROOF DRAIN STEM

Make sure there is at least 4-in. (100 mm) of clear vertical distance in the existing pipe to accommodate the drain. Remove the wing nut and lock washer in order to remove the Flex SpeedTite Mechanical Seal and seal expander from the drain body. Cut drain stem as evenly as possible to desired length and re-assemble the Flex SpeedTite Mechanical Seal and seal expander. **Note: Leave at least 2.5-in.(65 mm) of the drain stem to accommodate the seal.**

Trim the threaded rod on the seal expander accordingly as the cut stem may cause interference with the strainer but leave enough room for the wing nut. To ensure that the strainer dome fits properly, do not cut the threaded rod until after the lock washer and wing nut have been re-assembled and secured in place on the drain stem. Once the drain and seal have been re-assembled, insert it into the existing water leader and complete the assembly following installation steps 2 through 5.

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SKU	SIZE	CLAMPING RING	COATED FLANGE	PACKAGE QUANTITY	DIMENSIONAL WEIGHT LBS. (kg)
SPT3A	3-in. (75)	X			32 (14.53)
SPT4A	4-in. (100)	X			
SPT5A	5-in. (125)	X			
SPT6A	6-in. (150)	X			
SPTTPO3A	3-in. (75)		TPO		
SPTTPO4A	4-in. (100)		TPO		
SPTTPO5A	5-in. (125)		TPO		
SPTTPO6A	6-in. (150)		TPO		
SPTPVC3A	3-in. (75)		PVC		
SPTPVC4A	4-in. (100)		PVC		
SPTPVC5A	5-in. (125)		PVC		
SPTPVC6A	6-in. (150)		PVC	1	

SEAL EXPANSION CAPACITY

SpeedTite	Outside Diameter of PRE-EXPANDED SEAL	FULLY EXPANDED
3" (75)	2.84" (72)	3.23" (82)
4" (100)	3.77" (95.7)	4.16" (105.6)
5" (125)	4.79" (121.6)	5.10" (129.5)
6" (150)	5.74" (145.8)	6.22" (158)

*All sizes are nominal. Due to manufacturing variances and job site inconsistencies, these figures are guidelines and are not guaranteed.

Sizes shown in inches (millimeters).

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Flex
Thermoplastic Single Ply and Multi-Ply Roofing Systems