

TRI-BUILT® SPEEDTITE® DRAIN

Watertight in Seconds. Flows Like a Traditional New Connection Drain.

When it comes to roof drainage, getting water off the roof is the name of the game. The TRI-BUILT® SpeedTite Drain with built-in Vortex Breaker Technology is designed for improved flow performance that rivals many traditional new connection drains.* SpeedTite Drains are “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

- TRI-BUILT® 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.
- TRI-BUILT® SpeedTite Drains can be installed in minutes without any special tools, helping to save time and labor.

- The patent pending 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.
- TRI-BUILT® SpeedTite Drains feature a one-piece seamless body with an extra-large 17 inch 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.

PERFORMANCE VALUES		
Water Head Level (in.)	3" SpeedTite Volumetric Flow Rate (gpm)	4" SpeedTite Volumetric Flow Rate (gpm)
4	267	288
5	346	469
6	347	560



*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.”

ORDERING INFORMATION

SIZE	DOMETYPE	CLAMP RING	COATED FLANGE	PKG	DIMENSIONAL WT.
3-in. (75 mm)	Aluminum	X		Each	32 lbs. (14.53 kg)
4-in. (100 mm)	Aluminum	X		Each	32 lbs. (14.53 kg)
3-in. (75 mm)	Aluminum		X	Each	32 lbs. (14.53 kg)
4-in. (100 mm)	Aluminum		X	Each	32 lbs. (14.53 kg)
3-in. (75 mm)	Aluminum		X	Each	32 lbs. (14.53 kg)
4-in. (100 mm)	Aluminum		X	Each	32 lbs. (14.53 kg)

APPROVALS & STANDARDS

ANSI/SPRI RD-1 is a national performance standard. TRI-BUILT® Drains – including the TRI-BUILT® 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 gauge (125-in. / 3.18 mm) spun aluminum	SpeedTite Mechanical Seal
FLANGE	STRAINER DOME
17-in. (432 mm) diameter with sump area	Cast aluminum
STEM	CLAMP RING
10-in. (254 mm) length	Cast aluminum (not in TPO- and PVC-coated models)

**All dimensions are nominal.

INSTALLATION INSTRUCTIONS

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 TRI-BUILT® 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 TRI-BUILT® 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 TRI-BUILT® red Vortex Breaker until hand tight. The TRI-BUILT® 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/nailler 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 OMG SPEEDTITE ROOF DRAIN STEM

Make sure there is at least 4-inches (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 TRI-BUILT® SpeedTite Mechanical Seal and seal expander from the drain body. Cut drain stem as evenly as possible to desired length and re-assemble the TRI-BUILT® SpeedTite Mechanical Seal and seal expander. Note: Leave at least 2.5-inches (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.