

Product Description

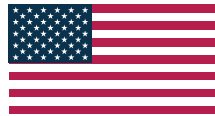
The Kingspan Aluminum Retrofit Drain is manufactured with heavy gauge spun aluminum and is used in Kingspan roofing systems to drain water as a part of a water removal system. It comes with a robust seal to prevent backflow of already drained water.

The Kingspan Aluminum Retrofit Drain features a three bolt aluminum strainer design and measures 10" in diameter and 6" tall. It also features a heavy duty aluminum ring that is 1-1/4" tall and designed with twelve scallops to maximize drainage.



Manufactured in the U.S.A.

All Kingspan Aluminum Retrofit Drains are manufactured in the U.S.A. with globally sourced materials.



Features & Benefits

- **Durable all-aluminum** retrofit roofing drain with heavy duty ring designed for maximum drainage.
- **Robust Sealing Technology** featuring tape or mechanical seal to prevent backflow of water.
- **Quick Installation** to support fast setup of water exfiltration system.
- **Installer-friendly** drain system for any experience level.
- **Certified to conform with ASME A112.6.4 & CSA B79 Plumbing Standards** for 3", 4", 5" and 6" sizes. Can be used with all types of roofing membrane materials.
- **Packaging:** Ships in boxes with 1 drain per box.
- **Comes with a 10-year material replacement warranty** but is not included in Kingspan Roofing + Waterproofing warranties.
- **Compatible with all System Installation Options** - Mechanically Attached System (Fasteners & Plates), Mechanically Attached System (Induction-Welded), or Adhered Systems.

Application

- Reference application instructions at the end of this document.

Codes & Approvals



Safety Precautions

- Use proper equipment and assistance when moving, lifting, handling, or transporting Kingspan Aluminum Retrofit Drain boxes to avoid personal injury as well as damage to the materials.
- Protective eyewear must be worn during installation of Kingspan Aluminum Retrofit Drains.
- Reference the Kingspan product Safety Data Sheet for additional safety information.

Storage

- Store Kingspan Aluminum Retrofit Drains away from objects that could cause physical damage.

Typical Properties

Property	Typical Performance
Material	Heavy gauge spun aluminum
Shape	Round
Color	Silver
Flange Diameter	16" (406.4 mm)
Strainer Diameter	10" (254.0 mm)
Strainer Height	6" (152.4 mm)
Aluminum Ring Height	1-1/4" (31.8 mm)

Seal Expansion Capacities

Drain Size	Starting Outer Diameter of Seal / Outlet	Fits into Pipe Inner Diameter	Max. Expansion Diameter of Seal	Inner Diameter of Seal
2"	1.625"	1-3/4" – 2 1/4"	2.40"	1.50"
3"	2.85"	2-7/8" – 3-1/4"	3.40"	2.19"
4"	3.80"	3-7/8" – 4-1/4"	4.40"	3.12"
5"	4.80"	4-7/8" – 5-1/4"	5.40"	4.15"
6"	5.70"	5-7/8" – 6-1/4"	6.40"	5.00"
8"	7.70"	7-7/8" – 8-1/4"	8.40"	6.50"
10"	9.70"	9-7/8" – 10-1/4"	10.40"	8.50"

Flow Capacity

Drain Size	Gallons per Minute
2"	35
3"	45
4"	85
5"	180
6"	210
8"	555
10"	1,190

Product Information

SKU	Description	Drains per Box	Box Weight
600000001382	Aluminum 2" Retrofit Drain + Tape Seal	1	13.0 lbs. (5.9 kg)
600000001383	Aluminum 3" Retrofit Drain + Mechanical Seal	1	13.5 lbs. (6.1 kg)
600000001384	Aluminum 4" Retrofit Drain + Mechanical Seal	1	14.0 lbs. (6.4 kg)
600000001385	Aluminum 5" Retrofit Drain + Mechanical Seal	1	14.5 lbs. (6.6 kg)
600000001386	Aluminum 6" Retrofit Drain + Mechanical Seal	1	15.0 lbs. (6.8 kg)
600000001387	Aluminum 8" Retrofit Drain + Mechanical Seal	1	15.5 lbs. (7.0 kg)
600000001388	Aluminum 10" Retrofit Drain + Tape Seal	1	22.0 lbs. (7.3 kg)

Aluminum Retrofit Drain Installation Instructions for 2", and 10" drains with Tape Seal

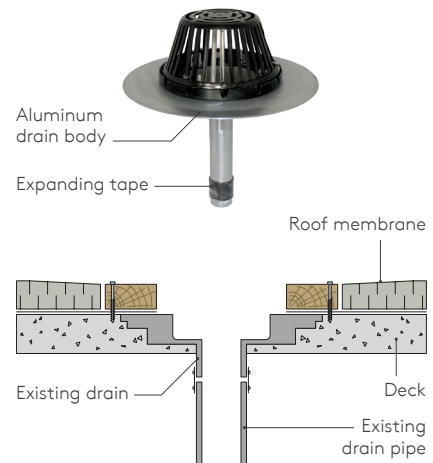
For Use With: All types of roofing materials.

Job Preparation: Remove existing Strainer and Clamping Ring, if applicable. Remove any other existing drain components as required to enable our drain flange to lie flush on roof membrane. Remove any debris in the existing drain pipe that interferes with proper installation.

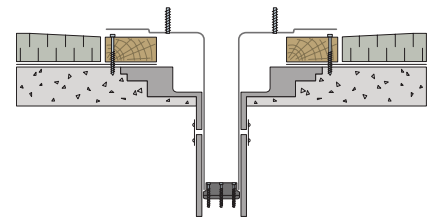
Application

- 1 Inspect the existing drain pipe 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 the next page to shorten the drain length. BEFORE WRAP IS REMOVED** - Insert Drain into existing drain pipe until flange is flush on roof membrane.
- 2 After confirming correct fit, remove wrap and install drain into drain pipe. Expanding tape will gradually expand to fill void. Tape expands more slowly in cold temperatures and heat can be applied inside of the outlet to expand more rapidly if needed. **DO NOT OVERHEAT FLANGE / OUTLET AREA OR STUDS AS HEAT COULD LOOSEN THESE WELDED AREAS.** Should the tape expand too much before installing the drain, simply recompress the tape by hand and then insert the drain.
- 3 Secure the drain flange to the roof deck using a minimum of three fasteners that are evenly spaced around the flange. The flashing membrane must cover and extend past the fastener head. Flashing membrane must be installed per manufacturer's specifications.
- 4 Place Clamping Ring over metal studs and install supplied stainless steel nuts and washers. Tighten clamping ring against membrane flashing until secure. Do not over tighten as the possibility of the ring or studs could be damaged.
- 5 Install Strainer by aligning screw holes with the holes in the clamping ring. Secure with screws provided.

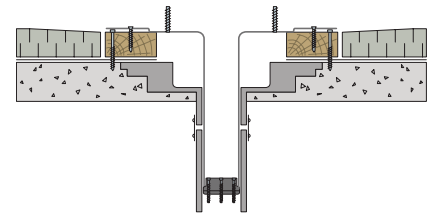
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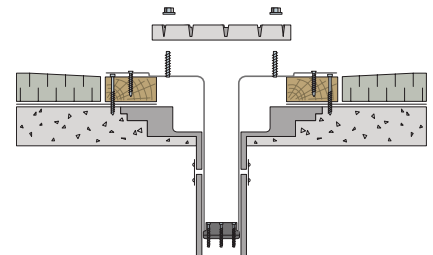
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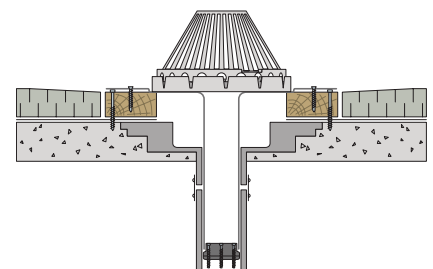
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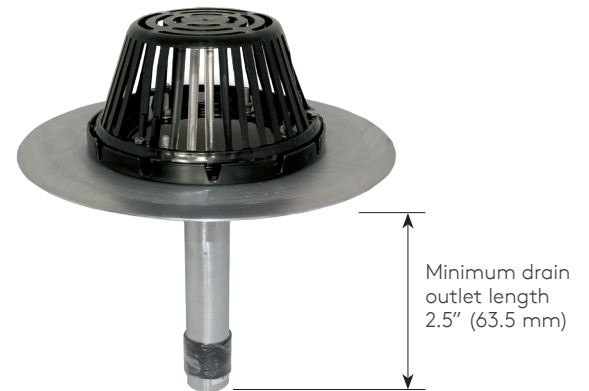


How to Shorten 2" and 10" Aluminum Retrofit Drain Outlet

You may need to shorten our Aluminum 10" Retrofit Drain outlet length if the existing vertical distance is too shallow to accommodate our standard 12" long outlet.

Instructions

- 1 Make sure there is at least 4-inches of distance in the existing pipe to accommodate our Aluminum Drain.
- 2 Cut drain stem to desired length leaving at least 2.5-inches of the drain stem to accommodate the expanding tape seal. See opposite.
- 3 **Note: Existing tape on drain cannot be re-used if cut off.** Kingspan can supply an additional piece of expanding tape if needed. Also, when ordering the drain, the tape can be requested not to be installed on the drain if the drain needs to be shortened. Tape can be installed on jobsite if needed. Once the drain and seal have been assembled, insert it into the existing water leader and complete the assembly following 2 - 5 installation on previous page.



Aluminum Retrofit Drain Installation Instructions for 3", 4", 5", and 6" drains

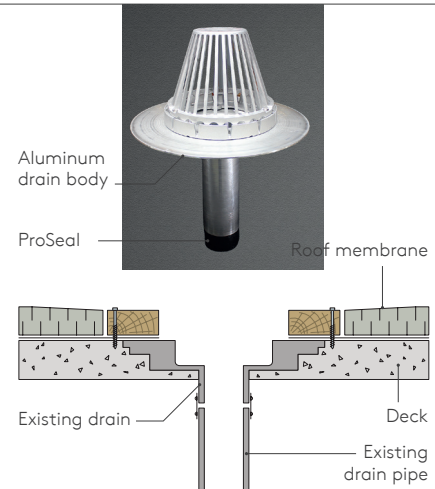
For Use With: All types of roofing materials.

Job Preparation: Remove existing Strainer and Clamping Ring, if applicable. Remove any other existing drain components as required to enable our drain flange to lie flush on roof membrane. Remove any debris in the existing drain pipe that interferes with proper installation.

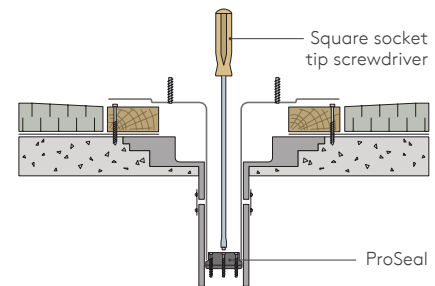
Application

- 1 Inspect the existing drain pipe 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 the next page to shorten the drain length.** Insert Pro-Seal into end of drain stem and tighten screws enough to hold the seal in place during installation. Insert assembled drain into existing drain pipe until flange is flush on roof membrane. ****Make sure the ProSeal expanded enough prior to inserting into drain to assure seal activation.** *2" Supplied with Expanding tape. Remove wrap and install. Tape will expand automatically.
- 2 Alternately tighten seal compression ring screws with a Square Socket Tip Screwdriver until hand tight. Aluminum Drain body is correctly installed when pressure placed on drain body results in no vertical movement. Do not overtighten the screws.
- 3 Secure the drain flange to the roof deck using a minimum of three fasteners that are evenly spaced around the flange. The flashing membrane must cover and extend past the fastener head. Flashing membrane must be installed per manufacturer's specifications.
- 4 Place Aluminum Clamping Ring over metal studs and install supplied stainless steel nuts and washers. Tighten clamping ring against membrane flashing until secure. Do not over tighten as the possibility of the ring or studs could be damaged.
- 5 Install Aluminum Strainer by aligning screw holes with the holes in the clamping ring. Secure with screws provided.

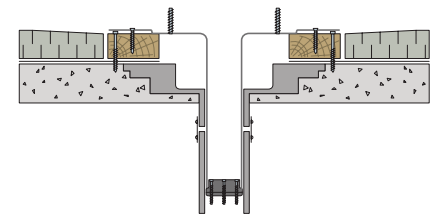
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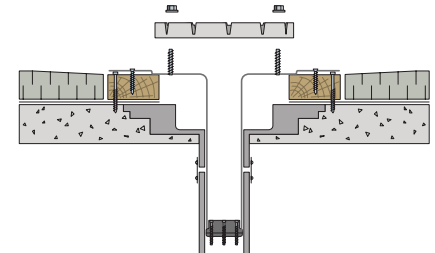
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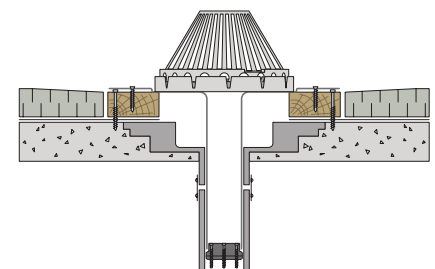
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How to Shorten 3", 4", 5", and 6" Aluminum Retrofit Drain Outlet

Instructions

- 1 Make sure there is at least 4-inches of distance in the existing pipe to accommodate our drain.
- 2 Cut drain stem to desired length leaving at least 2.5-inches of the drain stem to accommodate the seal and then insert Pro-Seal. Cut drain stem to desired length leaving at least 2.5-inches of the drain stem to accommodate the expanding tape seal. See opposite.
- 3 Insert the Pro-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 2 - 5 installation on previous page.



Aluminum Retrofit Drain Installation Instructions for 8" drains

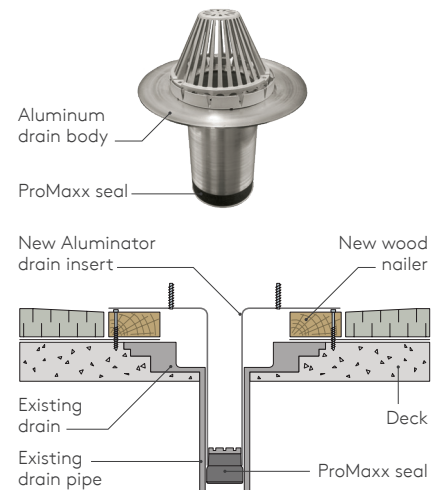
For Use With: All types of roofing materials.

Job Preparation: Use a square socket tip installation tool. Remove existing Strainer and Clamping Ring, if applicable. Remove any other existing drain components as required to enable the Aluminator Drain flange to lie flush on roof membrane. Remove any debris in the existing drain pipe that interferes with proper installation. Install wood nailers in hexagon shape around existing drain bowl as shown in Step #1 below.

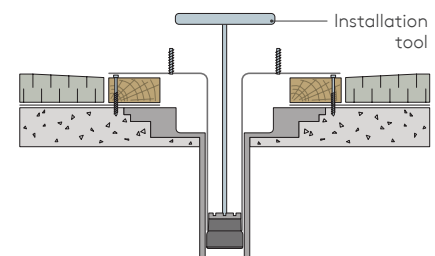
Application

- 1 Inspect the existing drain pipe 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 next page to shorten the drain stem. Insert ProMaxx Seal into end of drain stem and tighten enough to hold the seal in place during installation. Insert assembled drain into existing drain pipe until flange is flush on roof membrane. ****Make sure the ProMaxx Seal is expanded enough prior to inserting into drain to assure seal activation.**
- 2 Tighten seal compression ring with ProMaxx Seal Installation Tool until hand tight. Aluminator Drain body is correctly installed when pressure placed on drain body results in no vertical movement. Do not overtighten the ProMaxx Seal.
- 3 Secure the drain flange to the roof deck using a minimum of four screws that are evenly spaced around the flange. Use Kingspan #15 HD Fasteners. Do not use hex head screws. The flashing membrane must cover and extend past the fastener head. Flashing membrane must be installed per manufacturer's specifications.
- 4 Place Aluminum Clamping Ring over metal studs and install supplied stainless steel nuts and washers. Tighten clamping ring against membrane flashing until secure. Do not over tighten as the possibility of the ring or studs could be damaged.
- 5 Install Aluminum Strainer by aligning screw holes with the holes in the clamping ring. Secure with screws provided.

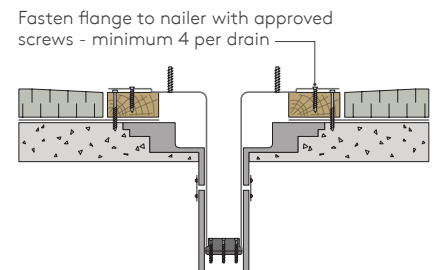
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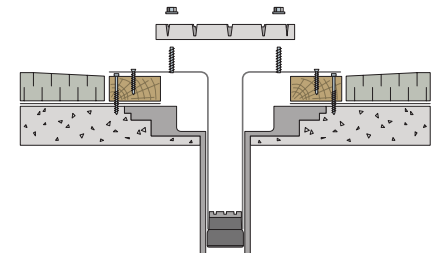
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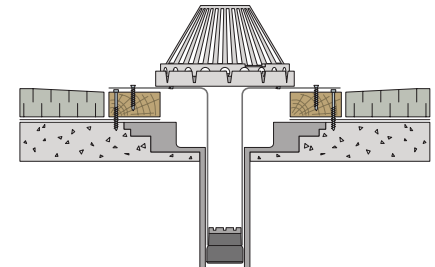
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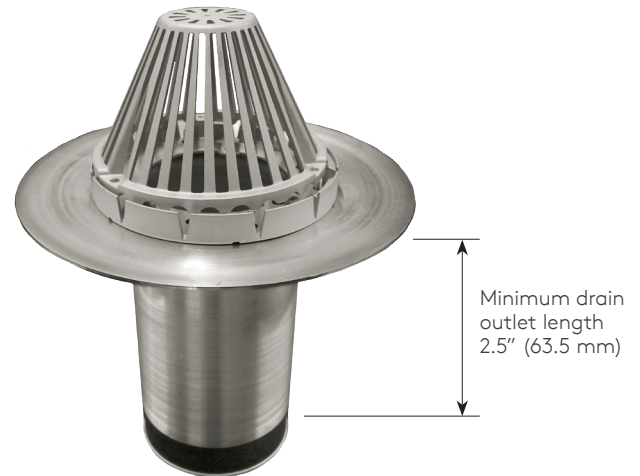
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How to Shorten 8" Aluminum Retrofit Drain Outlet

Instructions

- 1 Make sure there are at least 4-½ inches of clear distance to the first elbow in the existing pipe to accommodate the drain.
- 2 If first elbow is too close to allow insertion of full length drain stem, then cut drain stem to desired length. If drain stem must be cut, measure distance to first elbow in existing drain line then subtract 2" for length of ProMaxx seal and cut drain stem to desired length.
- 3 **Note: Cut drain stem must be a minimum of 2.5" long to accommodate the ProMaxx Seal.** See opposite.
- 4 Insert the ProMaxx Seal in the cut drain stem and tighten the ProMaxx Seal. Once the drain and seal have been assembled, insert it into the existing drain leader and complete the assembly following steps 2 - 5 of the installation instructions on the previous page.



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