



CARLISLE'S **SURE-FLEX™ PIPE SEALS**



Overview

Sure-Flex PVC Pipe Seals are injection-molded, pre-formed flashings for pipes 3/4" (19 mm) to 8" (203 mm) in diameter. Sure-Flex PVC Pipe Seals are packaged in boxes of eight and come with universal clamping rings.

Carlisle's Sure-Flex PVC Pipe Seals are part of the Certified Fabricated Accessory (CFA) program. Certified Fabricated Accessories are the only factory-fabricated PVC accessories that meet the stringent quality tolerances required to be included in a Carlisle warranted roofing system.

Features and Benefits

- Provides a reliable method of waterproofing round pipe penetrations
- Provides a substantial labor savings compared to field-fabricating from non-reinforced flashing
- Provides a more consistent appearance than field-fabricated pipe flashings.
- Double-ribbed cutting guide provides easier, smoother and straighter cuts
- Rib design also keeps the clamp in the proper position for the life of the roofing system

Installation

1. Cut Pipe Seal between double-ribbed cutting guide, one size smaller than pipe diameter. (Do not cut off raised ring.)
2. Pull Pipe Seal over pipe until base flange is in contact with the membrane. (Application of heat to the top portion of the Pipe Seal may be necessary to allow installation over the pipe.)
3. Mark pipe around the top of the Pipe Seal.
4. Pull Pipe Seal upwards on pipe until mark on the pipe is visible.
5. Install Universal Single-Ply Sealant below mark that indicates the top of the installed Pipe Seal.
6. Pull Pipe Seal back down over pipe and into position.
7. Heat-weld the Pipe Seal base flange to deck membrane.
8. Install a stainless steel universal clamping ring to provide constant compression of the sealant.

Precautions

1. Remove all lead and other flashing.
2. Temperature of pipe must not exceed 160°F (71°C).
3. Install a minimum of four fastening plates around pipe penetrations. Position fastening plates around the penetration so they are covered by the Pipe Seal flange. A minimum 1½-inch-wide weld must be maintained around the outer edge of the flange beyond the plates. If fastening plates cannot be installed in a manner to allow a minimum 1½-inch weld, the plates must be placed outside the Pipe Seal flange and covered with a reinforced Sure-Flex membrane overlay.
4. Store Pipe Seals in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. Sure-Flex Pipe Seals or membrane that have been exposed to the weather must be prepared with PVC Membrane Cleaner prior to hot-air welding.



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Pipe Seals

Typical Properties and Characteristics

Size	3/4" to 8" O.D. Pipe (19 to 203 mm)
Packaging	8 per box
Weight (each)	0.55 lbs (0.25 kg)
Material	PVC compound
Color	White

Please use the chart below to cross-reference your pipe size with the proper step to cut as shown.

Copper Tubing (C.T.S.)

Nominal Tube Size	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"
Pipe O.D.	.88	1.13	1.38	1.63	2.13	2.63	3.13	4.13	5.13	6.13	N/A
Step of Boot Used	1	1	1	1 ½	2	2	3	4	5	6	N/A

Schedule 40/80 Steel Pipe - PVC Standard - Polyethylene Pipe IPS

Nominal Pipe Size	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"
Pipe O.D.	1.05	1.32	1.66	1.90	2.38	2.88	3.50	4.50	5.56	6.63	8.63
Step of Boot Used	1	1	1 ½	1 ½	2	3	3	4	5	6	8

Cast-Iron Pipe

Nominal Pipe Size	Pit Class A & Spun 100-250					Pit Class B, C & D				
	2"	3"	4"	6"	8"	2"	3"	4"	6"	8"
Pipe O.D.	2.50	3.96	4.80	6.90	9.50	N/A	3.96	5.00	7.10	9.30
Step of Boot Used	2	4	5	6	N/A	N/A	4	5	6	N/A

Sewer - Soil Pipe

Nominal Pipe Size	PVC Plastic SDR 35 & 41...Cast Iron Soil Pipe no hub...service weight & extra heavy											
	4"	4"	4"	4"	6"	6"	6"	6"	8"	8"	8"	8"
Pipe O.D.	4.22	4.38	4.30	4.62	6.28	6.30	6.30	6.62	8.40	8.38	8.38	8.75
Step of Boot Used	4	4	4	4	6	6	6	6	8	8	8	8

Conduit EMT

Nominal Pipe Size	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	3 ½"	4"
Pipe O.D.	.922	1.16	1.51	1.74	2.19	2.88	3.50	4.00	4.50
Step of Boot Used	1	1	1	1 ½	2	3	3	4	4

Conduit IMC

Nominal Pipe Size	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	3 ½"	4"
Pipe O.D.	1.02	1.29	1.63	1.88	2.36	2.85	3.47	3.97	4.46
Step of Boot Used	1	1	1 ½	1 ½	2	3	3	4	4

Conduit Rigid

Nominal Pipe Size	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	3 ½"	4"	5"
Pipe O.D.	1.05	1.32	1.66	1.90	2.37	2.87	3.5	4	4.5	5.56
Step of Boot Used	1	1	1 ½	1 ½	2	3	3	4	4	5

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800-479-6832 • P.O. Box 7000 • Carlisle, PA 17013 • Fax: 717-245-7053 • www.carlisle-syntec.com

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