



# Sure-Flex™ PVC

## Molded Pipe Flashing



### Overview

Carlisle's Sure-Flex PVC Pipe Seals are injection-molded, pre-formed flashings for pipes .75" (19 mm) to 8" (203 mm) in diameter. This labor-saving accessory provides a quick and reliable way to waterproof round pipe penetrations.

Sure-Flex PVC Pipe Seals are part of Carlisle's 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 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 facilitates easier, smoother, and straighter cuts
- » Rib design holds the clamp in the proper position

### Productivity Boosting Features and Benefits:

- » Up to 60% labor savings compared to traditional field fabrication
- » Quick and simple installation with no stretching required
- » Provides a consistent, finished appearance



### Installation

1. Cut Pipe Seal between double-ribbed cutting guides, one size smaller than the pipe diameter. Do not cut off raised ring.
2. Pull Pipe Seal over pipe until base flange is in contact with the membrane. It may be necessary to apply heat to the top portion of the Pipe Seal 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. Apply Universal Single-Ply Sealant below the 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.

*Review Carlisle specifications and details for complete installation information.*

### Precautions

- » Remove all lead and other flashing.
- » Temperature of pipe must not exceed 140°F (60°C).
- » 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 1.5"-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 1.5" weld, the plates must be placed outside the Pipe Seal flange and covered with a reinforced Sure-Flex membrane overlay.
- » Store Pipe Seals in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. Sure-Flex Pipe Seals or membranes that have been exposed to the weather must be prepared with PVC Membrane Cleaner prior to hot-air welding.

### Typical Properties and Characteristics

Sizes	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, Tan, and Gray

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

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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 Tube 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											
	Pit Class A & Spun 100-250					Pit Class B, C & D					
Nominal Tube Size	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												
	PVC Plastic SDR 35 & 41...Cast Iron Soil Pipe no hub...service weight & extra heavy											
Nominal Tube Size	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 Tube 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 Tube 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 Tube 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