

Ultimate Pipe Flashing® - For Metal Roofs

**LIFETIME TOOL®
& BUILDING
PRODUCTS LLC**

Product Description

The Ultimate Pipe Flashing® (UPF) for metal roof coverings is a high-performance flashing component engineered to sustainably seal the plumbing vent pipe penetration through a roof surface. Created as a durable assembly for steep slope roof use, the patented design incorporates an integral precision compression seal to the vent pipe, allows installation on slopes from flat to 18/12 pitch, and provides a full radius top edge for a proper and complete rain shedding installation.

The UPF can be used with any steep slope metal roof covering including metal shingles, double lock standing seam panels, snap-lock seam panels, and more. This Kynar® coated 24-gauge G-60 galvanized steel sheet version is exceptionally well suited for use in all but the most corrosive high chloride environments, such as coastal or beachfront buildings and is an excellent choice with all metal roof covering materials.



Instructions & Recommendations for Use

Every UPF for use with Metal Roof Coverings is packaged in a protective carton which contains bilingual instructions for proper installation of the UPF to the roof penetration. The installer must determine the vent pipe material and size. If the vent pipe material is not Sch. 40 PVC DWV pipe, such as copper or cast iron, then a Lifetime Tool®, EASYSleeve®, or EASYFit™ may be required for proper long-term performance.

The seal to the pipe on a UPF is a precision engineered compression seal for each pipe size encountered, available to seal Sch. 40 PVC DWV pipe in 1¼", 1½", 2", 3", and 4" sizes that are commonly found in residential and light commercial roofing markets. The installer must ensure that the correct UPF is installed for the given penetrating pipe size.

It is recommended that the UPF be delivered to the pipe penetration on the roof in the original carton. In this manner the installer can double check the size and will have the carton (with bilingual instructions) at the installation site for reference.

Care must be exercised when preparing the substrate at the penetration location. Clearance is required in the substrate to ensure that fasteners at the perimeter of the flashing plate cannot engage the substrate. The flashing plate and fasteners must be free to move with the roof metal covering during thermal excursions. The installer must prepare the substrate prior to affixing the roof metal covering at the penetration location.

A rigid molded PVC compression collar is supplied in each UPF carton. This compression collar is engineered to live at the top of the flexible seal bushing between the two molded bead rings (as shown on the instructions illustrations on the carton) and must be installed thereon before installation onto the vent pipe.

The supplied lubricant towelette must be used to wet the interior surfaces of the flexible seal bushing and the external surface of the vent pipe prior to installation.

Once the penetration location is prepared and the lubricant is applied, install the UPF onto the vent pipe and seat down on the metal roof covering surface using sealant between the roof covering metal and the underside of the flashing plate.

Apply metal screws around the flashing plate perimeter as required using caution not to engage the substrate. Finish by applying a bead of sealant around the flashing plate perimeter.

Additional information can be found on the Lifetime Tool® website at www.lifetimetool.com

Benefits of using the Ultimate Pipe Flashing® -For Metal Roofs

The engineered flashing assembly utilizes materials known for long-term outdoor exposure, including:

- Available as paint ready primer finish or fully Kynar® coated 24-gauge G-60 galvanized steel sheet in stock colors for the flashing plate
- High consistency molded silicone elastomer for the flexible seal bushing
- Exterior grade, UV, stabilized, rigid PVC for the compression collar
- Proprietary silicone lubricant formulation for the installation towelette.

The patented compression seal technique provides a precision lifelong seal to the pipe for each Sch. 40 PVC DWV vent pipe size encountered. **One size does not fit all!**

The flashing plate is produced with a full radius top edge providing an excellent rain shedding finished installation.

The flexible seal bushing has been developed to accommodate roof pitch variations from flat to a pitch of 18/12 without further modification or additional installation labor.

All components are made, assembled, and packaged in the U.S.A.
Warrantied for the life of the roof covering materials that is installed with. A truly sustainable roof component built to last and perform on the roof.

Specific Data

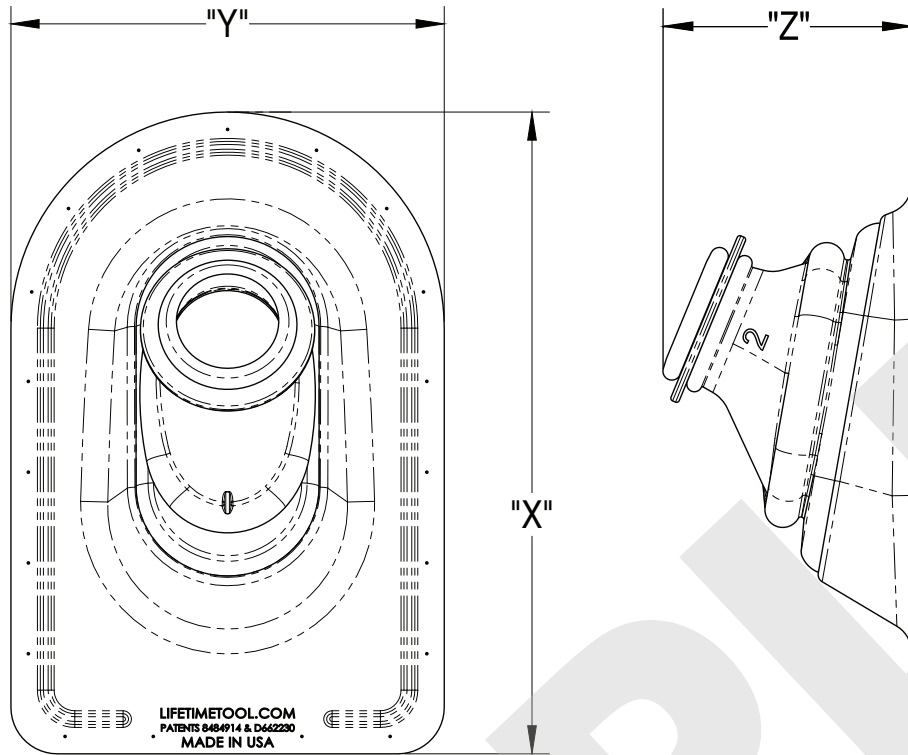
Materials of Construction:

- **Flashing Plate** – Deep drawn and stamped Kynar® coated 24 gauge G-60 galvanized steel sheet with a classic dark bronze finish or in primer version, ready for painting. Meets or exceeds ASTM A635-09 standards, providing superior corrosion resistance in all outdoor environments except coastal and beach front homes and buildings.
- **Seal Bushing** – Molded from a high consistency silicone elastomer proprietary formulation specific for this application, conforming to ASTM G-154-06 for resistance to UV exposure and ASTM D-1149-99 for surface resistance to ozone. Minimum wall thickness of 3.6mm (0.144") ensures long-term fatigue resistance to daily thermal gradients.
- **Compression Collar** – Molded from a rigid PVC compound specifically compounded for long-term exterior exposure applications, including UV stabilization.

Availability:

The 24-gauge G-60 galvanized steel Ultimate Pipe Flashing® for metal roof coverings is available for use on Sch. 40 PVC DWV pipe ASTM D-2665 and ASTM D-1785 (pressure pipe), as shown in the dimensions and sizing table below. Available in Kynar® dark bronze or in a primer version ready for painting to match your roof color.

Visit the Lifetime Tool® website at www.lifetimetool.com for additional information.



Ultimate Pipe Flashing® - Metal Dimensions

Sch. 40 PVC Pipe Size	Metal UPF Part No.	Part Dimensions (in.)			Packaging (each unit)	
		X	Y	Z		
1¼"	UPF-M 125	13.86"	9.33"	5.12"	15" x 10" x 4"	3lbs.
1½"	UPF-M 150	13.86"	9.33"	5.12"	15" x 10" x 4"	3lbs.
2"	UPF-M 200	13.86"	9.33"	5.12"	15" x 10" x 4"	3lbs.
3"	UPF-M 300	15.96"	11.50"	6.06"	17" x 13" x 4"	3lbs.
4"	UPF-M 400	15.96"	11.50"	6.06"	17" x 13" x 4"	3lbs.

Applicable Testing:

ASTM E 283-04	Air leakage test
ASTM E 331-00	Water penetration test
ASTM B 117-09	Standard practice for operation salt spray (FOG) apparatus
FM 4471-95	Appendix G; Susceptibility to leakage test
ASTM E 2140-01	Standard test method for structural performance by unit for static air pressure difference
Florida TAS 100-95	Test procedure for wind and wind driven rain resistance

Notice:

All parts are manufactured and assembled in the U.S.A.
 Protected by U.S. Patents 8,484,914
 Lifetime Tool® and Ultimate Pipe Flashing® are registered by and the property of
 Lifetime Tool and Building Products, LLC no unauthorized use is permitted.
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