

Master Flash®

# SOLAR APPLICATIONS

3/2020

Specifically Designed For Solar & Electrical Applications



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# Master Flash®

# Specifically Designed For... Solar & Electrical Applications

Advanced Ozone Resistance tested to...		EPDM 70 hour @ 500 pphm	HIGH TEMP RED/GRAY/BLACK SILICONE 70 hour @ 500 pphm
High Temperature Resistance Tested to	Intermittent	+135°C (+275°F)	+260°C (+500°F)
	Continuous	+100°C (+212°F)	+225°C (+437°F)
Low Temperature Resistance tested to...		- 55°C (-67°F)	- 74°C (-101°F)
Compression Set Maximum...		25%	50%

\*Complete specification data and testing methods are available upon request.



## Design Excellence

Aztec's flexible design meets all roofing needs. Sleeve flexibility accommodates vibration and pipe movement caused by expansion contraction. The soft aluminum base easily conforms to most metal roof profiles.



## Weather Protection

Made of E.P.D.M. or Silicone, these flashings are compounded specifically for maximum resistance to weathering due to ozone and ultraviolet light.



## Base Flexibility

The base is designed to form a seal on most panel configurations and roof pitches regardless of pipe location.



## Easy On-Site Customization

Fast, one piece construction allows for easy on-site installation in usually 5 minutes.



## Modification Made Simple

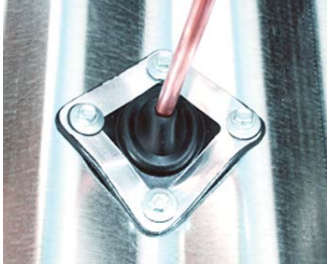
Easy to see pipe diameters make for painless on-site installation.

# Mini Standard Master Flash®

## Smallest flashing available!

**Pipe Range:** Closed Top – 1" (0 - 25mm) • **Overall Height:** 3/4" (19mm)  
**Base:** Square 2-1/4" (57mm) • **Compound:** EPDM and Silicone  
• **Color:** Ten color options available

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WARRANTY



# Standard Master Flash®

## The Original!

**Pipe Range:** Closed Top– 39-1/2" (0 to 1 meter) • **Compound:** EPDM and High Temp Silicone  
**Color:** Ten color options available • **Sizes:** Mini to Maxi XL

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Master Flash® was used to create a new engineering standard for profiled roofing by the International Association of Plumbing and Mechanical Officials (for the Uniform Plumbing Code) and remains the only product listed. These products are also listed for use with Type B vents.

The addition of fire retarding agents milled directly into the rubber compound created a self extinguishing feature which enables it to be used with type "B" vents. Listed with IAPMO certification No. 3121

# Universal Master Flash<sup>®</sup>

## All Around Design Excellence

This universal flashing has been designed to fit virtually all panel configurations. Sleeve flexibility absorbs vibration and pipe movement caused by expansion/contraction. Easy on-site customization can accommodate all normal installations.

**Pipe Range:** Closed Top – 19" (0- 508mm) • **Compound:** EPDM and Red, Black or Gray High Temp Silicone<sup>®</sup>  
**Color:** Thirteen color options • **Sizes:** Mini to #9



# Solar Flash Master Flash<sup>®</sup>

## Specifically designed for solar Applications

**Pipe Range:** 3/4" – 1-1/8" (19 - 28mm) • **Top Opening:** 3/4" (19mm)

**Overall Height:** 2-1/4" (57mm) • **Base:** Round 4" (63mm) • **Compound:** EPDM and High Temp Silicone

The simple round base flashing is available in EPDM and silicone with a pre-cut hole for pipe sizes 3/4" to 1" (19 - 25mm) allowing for minimal on-site preparation and assembly.

The pitch canal allows for maximum flexibility, easily accommodating up to a 60 degree pitch without affecting performance.



# Mini-Port Master Flash®

## "2 Port Design" Handling Many Jobs Multiple Functions

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**Pipe / Cable Range:** Center Closed Top— 7/8" (0 - 22mm)

**Pipe / Cable Range:** Side Port 1/64"– 3/8" (1 - 9mm) • **Base:** Square 3" (76mm)

**Compound:** EPDM and High Temp Silicone

# Multi-Port Master Flash®

## Two Applications • One Design

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**Pipe Range:** Standard Closed Top – 2-3/4" (0 - 70mm)

**Pipe Range:** Retrofit 1-1/4"– 2-1/4" (25 - 57mm)

**Port Range:** Pipe / Cable Range: Center 1/64"– 3/8" (1 - 9mm)

**Base:** Square 4-1/2" (114mm) • **Compound:** EPDM and High Temp Silicone

No hassle stainless steel gripper to secure retrofit applications

Accommodates FOUR 1/64"– 3/8" (1 - 9mm) lines and One pipe Closed Top - 2-3/4" - (0 - 70mm)

# Middy Master Flash®

## 2 Port Design for the Metal Roofing Industry

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**Pipe Range:** Center Closed Top – 2-3/8" (0 - 95mm)

**Pipe / Cable Range:** Side Port 1/64"– 3/8" (1 - 9mm) • **Base:** Square 3-3/4" (95mm)

**Compound:** EPDM and High Temp Silicone



# Solar Multi-Port - MR Master Flash®

## 5 Port Design for the Metal Roofing Industry



**Pipe / Cable Range:** Center Closed Top – 1-15/16” (0 - 49mm)  
**Side Ports:** Side Ports 1/64” - 3/8”(1-9mm) • **Side Ports:** 3/16” - 15/16” (4 - 23mm)  
**Base:** Square 4-1/2” (114mm) • **Compound:** EPDM and High Temp Silicone



# Solar Multi-Port - CT Master Flash®

## 5 Port Design for the Clay Tile roofs



**No Fasteners Required! Just WeatherMaster™ Sealant**

**Pipe / Cable Range:** Center Closed Top – 1-15/16” (0 - 49mm)  
**Side Ports:** Side Ports 1/64” - 3/8”(1-9mm) • **Side Ports:** 3/16” - 15/16” (4 - 23mm)  
**Base:** Square 4-1/2” (114mm) • **Compound:** EPDM and High Temp Silicone



# Metal Roof Sealant WeatherMaster™

Extrudes down to zero degrees Fahrenheit • Permanently flexible - won't crack • Available in all flashing colors  
 99% Solids for minimal shrinking • Joint movement capability +/-50% • Colors Available: Black, Grey, White, Red  
 (Terra Cotta) Translucent (Clear)

Comparison Guide	Metal Roof Sealant	VOC Solvent	Silicone	Urethane	Tripolymer
Paintable	1 - 2 hours	2 - 4 hours	No	2 - 7 days	24 hours
Shrinkage	1%	35%	5%	5%	50%
Flexibility	50%	25%	25%	25%	25%
Cold Weather Extrusion	0°	20°	-35°	32°	-40°
VOC - compliant	Yes	Yes	Yes	Yes	Yes
Solvent Free • Isocyanate Free • Earth Friendly	Yes	No	No	No	No
Gap Filling	1”	1/2”	1/2”	1/2”	1/2”
Odor	Slight	Heavy	Mild	Mild	Heavy
Service Temperature (°F)	-75° to 300°	-20° to 200°	-45° to 350°	-40° to 180°	-40° to 180°



# Solar Multi-Port - AL Master Flash®

**“Environmentally safe” lead free aluminum base.**

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**Pipe / Cable Range:** Center 0”– 1-15/16” (0 - 49mm)

**Pipe / Cable Range:** Side Ports 1/64” - 3/8”(1-9mm)

**Pipe / Cable Range:** Side Ports 3/16” - 15/16” (4 - 23mm)

**Base:** Aluminum Square 17-3/4” x 24” (450 x 609) • **Compound:** EPDM and Silicone



# Solar Multi-Port - LD Master Flash®

**Powder Coated Safe Lead base**

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**Pipe / Cable Range:** Center 0”– 1-15/16” (0 - 49mm)

**Pipe / Cable Range:** Side Ports 1/64” - 3/8”(1-9mm)

**Pipe / Cable Range:** Side Ports 3/16” - 15/16” (4 - 23mm)

**Base:** Lead Square 16” x 19-1/4” (410 x 490) • **Compound:** EPDM and Silicone



Aztec Washer's products such as specialty sealing hardware and standard flashings comply with California's Proposition 65 also known as the Safe Drinking Water and Toxic Enforcement Act of 1986.

# Residential Master Flash®

## Aluminum Base.

**Pipe Range:** Closed top – 18-1/2" (0 - 469mm) • **Compound:** EPDM and High Temp Silicone  
**Base:** Aluminum • **Sizes:** Mini to #3



A "C20" ASTM additional requirement was added to assure conformance to the most stringent ozone/weathering specifications available. This addition allows the rubber a 20 year life.

The addition of fire retarding agents milled directly into the rubber compound creates a self extinguishing feature which enables it to be used with type "B" vents. Listed with IAPMO certification No.3121

The built in 20° pitch allows adaptability to almost any roof pitch including 45°

The pull tab design and easy smooth tear grooving is intended to eliminate razor knives and allow for a circular hole



# Res-Lead Master Flash®

## "Protective coated safe lead base"

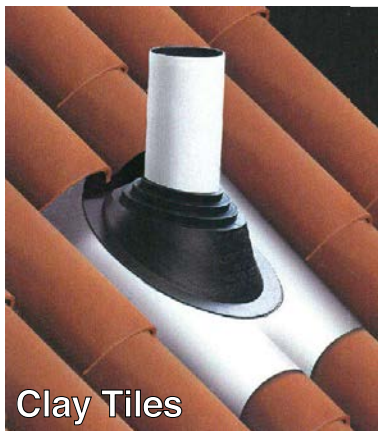
**Pipe Range:** Closed top – 18-1/2" (0 - 469mm) • **Compound:** EPDM and High Temp Silicone  
**Base:** Protective coated safe lead • **Sizes:** Mini to #3



A "C20" ASTM additional requirement was added to assure conformance to the most stringent ozone/weathering specifications available. This addition allows the rubber a 20 year life.

Like the Residential Master Flash® the built in 20° pitch allows adaptability to almost any roof pitch including 45°

The pull tab design and easy smooth tear grooving is intended to eliminate razor knives and allow for a circular hole



Clay Tiles



Aztec Washer's products such as specialty sealing hardware and standard flashings comply with California's Proposition 65 also known as the Safe Drinking Water and Toxic Enforcement Act of 1986.

# Extreme Angle Master Flash®

## Specifically designed for Metal Roofing Industry,

For applications with a 35 to 65 degree angle, while accepting & responding to the most commonly encountered pipe penetrations.

**Pipe Range:** Two Sizes Closed Top to 8" (0 - 203mm) • **Base:** 11" to 14-1/4" (279 to 362mm)  
**Compound:** EPDM and High Temp Silicone Silicone

Modification made simple Easy to see pipe diameters make for painless on-site installation.

The built in 40° degree pitch allows to handle any extreme roof pitch (35° - 65°), sleeve flexibility accommodates vibration and pipe movement caused by expansion/contraction. Easy on-site customization accommodates all normal installations.

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# Electrical Mast Connection Master Flash®

## Specifically designed for the Residential Roofing Industry,

**Pipe Range:** Closed Top – 5-3/8" (0 - 136mm) • **Base:** Square 15" (381mm)  
**Compound:** EPDM and High Temp Silicone

The built in 20° pitch allows adaptability to almost any roof pitch including 45°  
Easy to see pipe diameters make for painless on-site installation.

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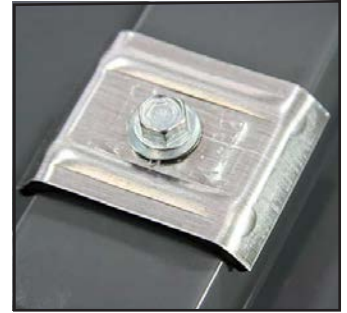


No hassle stainless steel gripper to secure retrofit application

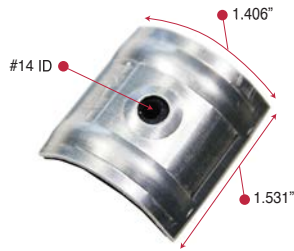


# P36 Saddle Washers

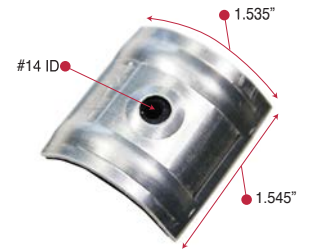
Our new "polymer 36" is a result of industry demand and available technology. The unsuitable memory and wear characteristics of sponge and foam have been eliminated. The unsuitability of powder painting the part after the sponge has been glued on has been eliminated. Polymer 36 has been developed to withstand the temperatures required to fully cure powder paint and still retain a full and complete bond between the polymer and its aluminum substrate. Memory characteristics very similar to solid polymers have been achieved thru experimentation in chemical technologies and our own expertise in vulcanizing.



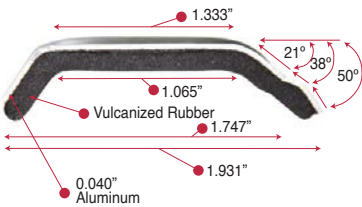
## P36 Saddle Washer: AW-24



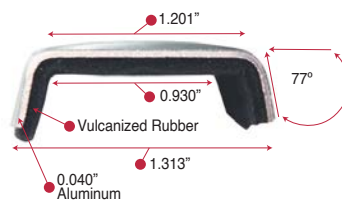
## P36 Saddle Washer: AW-25



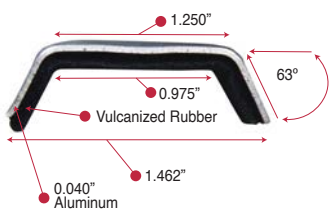
## P36 Saddle Washer: ANT



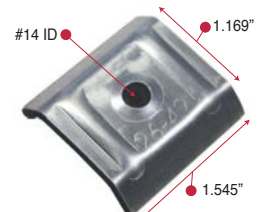
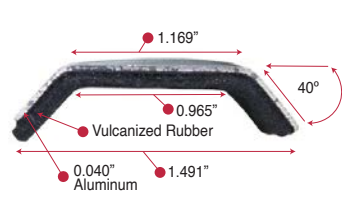
## P36 Saddle Washer: 26-15



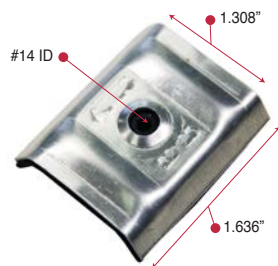
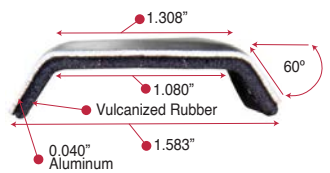
## P36 Saddle Washer: 26-27



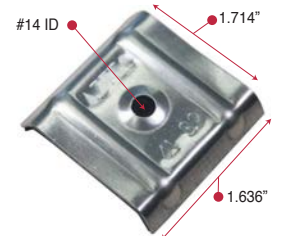
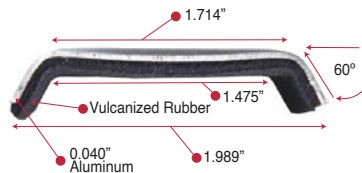
## P36 Saddle Washer: 26-49



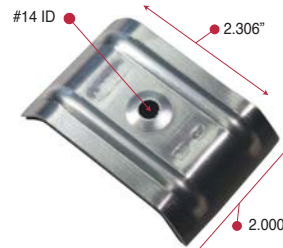
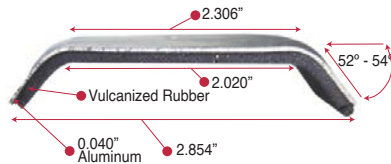
## P36 Saddle Washer: 32-25



## P36 Saddle Washer: 41-32



## P36 Saddle Washer: 55-32





# LEED Green Building Submittal Sheet- Elastomer Roof Flashings

	<b>Description of Section's Relevance</b>	<b>Elastomer Roof Flashings</b>
<b>Product Offerings</b>	Various products offered by Aztec that apply to information as follows.	<ul style="list-style-type: none"> <li>• Master Flash® Roof Flashing</li> <li>• Retro Master Flash® Flashing</li> </ul>
<b>Low Emitting Materials- VOC Emission Limits</b>	Strictest VOC regulatory limit in which governs the above products.	There are no VOC regulations for these products.
<b>Low Emitting Materials-Product VOC Content</b>	Best estimate of the actual VOC content within product in g/L or % by weight. Products with low VOC content may assist in earning LEED credit and improving air quality.	These products have no VOC content.
<b>Building Product Disclosure- Recycled Content of Materials</b>	Recycled content used within product that may assist in earning LEED points.	Some of these flashings, may contain up to 2% recycled material.
<b>PBT<sup>1</sup> Source Reduction-Lead, Cadmium, Copper</b>	Lead, Cadmium, and Copper content for use in determining LEED credit for PBT reduction.	There is no lead, cadmium, or copper present in these products.
<b>Red List Content</b>	Any red list materials as defined by the Living Building Challenge (LBC).	These products contain no materials present on the red list.
<b>Conflict Mineral Content</b>	Any materials within the product that may be from the DRC (Democratic Republic of Congo).	These products contain no conflict minerals.
<b>Hazardous Substance Content (ROHS)</b>	Any substances contained within the product reportable per ROHS guidelines.	No substances present which are reportable per ROHS guidelines.
<b>Location(s) Where Manufactured</b>	Manufacturing location of the product pertains to its carbon footprint. If jobsite area is within 500 straight-line miles of this location, LEED credit may be earned.	Locations of manufacturing: <ul style="list-style-type: none"> <li>• Tecate, Mexico</li> </ul>
<b>Additional Information</b>	Additional product information relative to LEED or environmental health and safety.	There is no additional information for these products.

<sup>1</sup>PBT's are known as Persistent Bioaccumulative Toxins.

\*All information contained in this document is gathered from reliable sources believed to be up-to-date and accurate to the best of our knowledge.

# Aztec Washer Company

Quality and Service *Worldwide*

Since 1968



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To see our complete product line go to: [www.aztecwasher.com](http://www.aztecwasher.com)



Installation Videos:

[www.aztecwasher.com/installationvideos/](http://www.aztecwasher.com/installationvideos/)



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