

HAWK

FASTENER SERVICES, L.L.C.

10/2016

Bonded Sealing Washers • Fastener Assembly • Self Drilling Screws • Pipe Flashing
Rubber EPDM Washers • EPDM Threaded Brass Insert Plugs



Hawk Fastener Services, L.L.C. 12324 S. Laramie Alsip, IL 60803
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MAXBOND™

BONDED SEALING WASHERS



EPDM BONDED SEALING WASHERS

GALVANIZED • STAINLESS • ALUMINUM

Available Sealing Materials

EPDM
Neoprene
Nitrile
Silicone
Buna-N
Viton

Available Backing Materials

Galvanized Steel
300 Series Stainless Steel
316 Series Stainless Steel
Aluminum
Silicone Bronze
Copper

SPECIALS CAN BE MADE PER CUSTOMER PRINTS • R O H S COMPLIANT
MATERIAL CERTIFICATION AVAILABLE WITH SPECIAL ORDERS • BLANKET AND J.I.T. ORDERS

Outside Diameter	Inside Diameter	Carton QTY
1/4"	#4	25,000
3/8"	#6, 8, 10, 12	25,000
7/16"	#8, 10, 12, 14	20,000
1/2"	#6, 8, 10, 12, 14	12,500
9/16"	#8, 10, 12, 14	10,000
5/8"	#8, 10, 12, 14, 5/16"	7,500
11/16"	#10, 14, 5/16", 3/8"	7,000
3/4"	#8, 10, 12, 14, 5/16", 3/8"	6,000
7/8"	#8, 10, 12, 14, 5/16", 3/8", 7/16"	4,000
1"	#8, 10, 12, 14, 5/16", 3/8", 7/16", 1/2"	2,500
1-1/8"	#8, 10, 12, 14, 5/16", 3/8", 7/16", 1/2"	2,500
1-3/16"	#8, 10, 12, 14, 5/16", 3/8", 7/16", 1/2", 5/8"	2,000
1-1/2"	#8, 10, 12, 14, 5/16", 3/8", 7/16", 1/2"	1,000
2"	3/4", 7/8", 1"	500

* PLEASE CONTACT US FOR SIZES AND MATERIALS NOT LISTED.

RUBBER EPDM WASHERS



The outside diameters listed as standard are based on "PAN HEAD" metal screw dimensions delineated in U.S.A.S. B 19.6.4
The outside diameters listed as optional are based on standard S.A.E. steel washers common to the trade.

*** STANDARD THICKNESS 3/32" (.093")***

Screw Size	Part Number	Outside Diameter	Inside Diameter	Weight Per Thousand
#6 Standard	EPDM6X1/4	1/4"	.120"	.18#
#6 Optional	EPDM6X3/8	3/8"	.120"	.44#
#8 Standard	EPDM8X5/16	5/16"	.150"	.28#
#8 Optional	EPDM8X7/16	7/16"	.150"	.51#
#10 Standard	EPDM10X3/8	3/8"	.170"	.41#
#10 Optional	EPDM10X1/2	1/2"	.170"	.70#
#12 Standard	EPDM12X7/16	7/16"	.195"	.45#
#12 Optional	EPDM12X9/16	9/16"	.195"	.89#
#14 Standard	EPDM14X1/2	1/2"	.230"	.59#
#14 Optional	EPDM14X5/8	5/8"	.230"	1.16#
5/16" Standard	EPDM5/16X9/16	9/16"	.290"	.81#
5/16" Optional	EPDM5/16X11/16	11/16"	.290"	1.40#
3/8" Standard	EPDM3/8X5/8	5/8"	.355"	.99#
3/8" Optional	EPDM3/8X13/16	13/16"	.355"	1.74#
1/2" Optional	EPDM1/2X1-1/16	1-1/16"	.490"	2.94#
5/8" Optional	EPDM5/8X1-5/16	1-5/16"	.615"	4.66#
3/4" Optional	EPDM3/4X1-1/2	1-1/2"	.740"	5.74#
1" Optional	EPDM1"X2"	2"	.990"	10.00#

Additional sizes and materials are available to solve problems of cushioning, sealing, abrasion and dampening.
Specials can be produced per customers prints.

Fastener Assembly

High-Speed Automated Assembly



Assembly of steel or 410 stainless steel screws with MAXBOND™ EPDM Bonded Sealing Washers

Screw Diameter	Screw Length	Washer Outside Diameter
#8, 9, 10	1/2" - 3"	3/8" - 1-1/8"
#12, 14	1/2" - 3"	12mm - 1-1/8"
5/16", 3/8"	3/4" - 3"	5/8" - 1"
7/16", 1/2"	1" - 3"	7/8" - 1"

Assembly of 300 series (non-magnetic) stainless steel screws with MAXBOND™ EPDM Bonded Sealing Washers

Screw Diameter	Screw Length	Washer Outside Diameter
#8, 9, 10	3/4 - 2"	1/2", 14mm, 5/8, 3/4
#12, 14	3/4 - 2"	1/2", 14mm, 5/8, 3/4"
5/16", 3/8"	3/4 - 2"	5/8, 3/4"

PLEASE CALL FOR A QUOTE ON SIZES NOT LISTED

Space is set aside in our warehouse for customers to send in cartons, pallets or truckloads of fasteners to be assembled and shipped on dates specified by customer.

We specialize in blanket and J.I.T orders • Boxing and labeling of assembled parts is available

MAXGRIP™

SELF DRILLING SCREWS

Self Drilling Screws Zinc,

in bulk and also assembled with MAXBOND™

EPDM Bonded Washers



**MAXGRIP™ HWH Unslotted
Self Drilling Screws Zinc**



**MAXGRIP™ HWH Unslotted
Self Drilling Screws Zinc
Assembled with MAXBOND™
EPDM Bonded Sealing Washers**

Size	Point	Box QTY.
8 - 18 x 1/2"	#2	10,000
8 - 18 x 5/8"	#2	10,000
8 - 18 x 3/4"	#2	10,000
8 - 18 x 1"	#2	8,000
8 - 18 x 1-1/4"	#2	6,000
8 - 18 x 1-1/2"	#2	5,000
10 - 16 x 1/2"	#2	8,500
10 - 16 x 5/8"	#3	7,500
10 - 16 x 3/4"	#3	6,500
10 - 16 x 1"	#3	5,000
10 - 16 x 1-1/4"	#3	5,000
10 - 16 x 1-1/2"	#3	5,000
10 - 16 x 2"	#3	1,500
10 - 16 x 2-1/2"	#3	1,000
10 - 16 x 3"	#3	1,000
12 - 14 x 3/4"	#3	5,000
12 - 14 x 1"	#3	3,000
12 - 14 x 1-1/4"	#3	3,000
12 - 14 x 1-1/2"	#3	2,500
12 - 14 x 2"	#3	2,000
12 - 14 x 2-1/2"	#3	1,000
12 - 14 x 3"	#3	1,000
1/4" - 14 x 3/4"	#3	4,000
1/4" - 14 x 1"	#3	3,000
1/4" - 14 x 1-1/4"	#3	2,500
1/4" - 14 x 1-1/2"	#3	2,000
1/4" - 14 x 2"	#3	1,000
1/4" - 14 x 2-1/2"	#3	1,000
1/4" - 14 x 3"	#3	1,000

Box QTY.	Washer O.D.
6,000	1/2"
6,000	1/2"
5,000	1/2"
5,000	1/2"
4,000	1/2"
3,500	1/2"
7,000	1/2"
5,000	1/2"
5,000	1/2"
4,000	1/2"
3,500	1/2"
2,500	1/2"
1,500	1/2"
1,000	1/2"
1,000	1/2"
4,000	14mm
3,000	14mm
3,000	14mm
2,500	14mm
1,500	14mm
1,000	14mm
1,000	14mm
3,000	15mm
2,500	15mm
2,000	15mm
2,000	15mm
1,500	15mm
1,000	15mm
1,000	15mm

With our In-House Assembly Machines we have the flexibility to assemble bonded sealing washers with outside diameters of 3/8" through 1-1/8 inch onto any of the above screws

EPDM THREADED BRASS INSERT PLUGS

Fastening • Sealing • Cushioning



Adaptability

- Fastens blind holes and closed-end holes
- Cushions and seals similar and non-similar material
- Absorbs vibration and seals both sides
- Won't crack with ozone Ultra violet exposure

Versability

- Removable and re-insertable
- Installs with conventional tools
- Flange thickness always in proportion to size
- Grip range covers all dimensions proportion to size

Availability

- 12 standard sized and 6 fastener diameters
- Choice of material - EPDM, Neoprene, Silicone, and Nitrile

Description & Insert Body		Body Diameter		Overall Length		Flange O.D.		Flange Thickness		Grip Range
U.S.	Metric	U.S.	Metric	U.S.	Metric	U.S.	Metric	U.S.	Metric	U.S.
6-32 S	M3S	0.250"	6.3mm	0.562"	14mm	0.500"	13mm	0.062"	1.6mm	0.015" - 0.187"
6-32 R	M3R	0.250"	6.3mm	0.800"	20.3mm	0.500"	13mm	0.062"	1.6mm	0.125" - 0.437"
6-32 L	M3L	0.250"	6.3mm	1.062"	27mm	0.500"	13mm	0.062"	1.6mm	0.312" - 0.625"
8-32 S	M4S	0.312"	8.0mm	0.562"	14mm	0.500"	13mm	0.062"	1.6mm	0.015" - 0.187"
8-32 L	M4L	0.312"	8.0mm	1.312"	33mm	0.562"	14mm	0.062"	1.6mm	0.375" - 0.875"
10-32 S	M5S	0.375"	9.5mm	0.625"	16mm	0.562"	14mm	0.062"	1.6mm	0.020" - 0.200"
10-32 F	M5F	0.375"	9.5mm	0.860"	22mm	0.562"	14mm	0.040"	1.0mm	0.093" - 0.375"
10-32 R	M5R	0.375"	9.5mm	1.062"	27mm	0.562"	14mm	0.062"	1.6mm	0.312" - 0.625"
10-32 L	M5L	0.375"	9.5mm	1.590"	40mm	0.625"	16mm	0.090"	2.3mm	0.750" - 1.125"
1/4-20 S	M6S	0.500"	13mm	0.855"	22mm	0.875"	22mm	0.090"	2.3mm	0.062" - 0.312"
1/4-20 SX	M6SX	0.500"	13mm	0.855"	22mm	0.750"	19mm	0.190"	4.6mm	0.031" - 0.187"
1/4-20 SXX	M6SXX	0.500"	13mm	0.855"	22mm	0.625"	16mm	0.056"	1.3mm	0.093" - 0.375"
1/4-20 J	M6J	0.500"	13mm	1.062"	27mm	0.625"	16mm	0.051"	1.3mm	0.250" - 0.450"
1/4-20 R	M6R	0.500"	13mm	1.276"	32mm	0.875"	22mm	0.100"	2.5mm	0.375" - 0.625"
1/4-20 L	M6L	0.500"	13mm	1.840"	47mm	1.000"	25mm	0.110"	2.8mm	0.375" - 0.750"
5/16-18 S	M8S	0.620"	16mm	0.840"	21mm	1.000"	25mm	0.110"	2.8mm	0.024" - 0.150"
5/16-18 R	M8R	0.620"	16mm	1.625"	41mm	1.250"	32mm	0.125"	2.8mm	0.250" - 0.750"
3/8-16 S	M10S	0.750"	19mm	1.000"	25mm	1.250"	32mm	0.125"	3.2mm	0.024" - 0.437"
3/8-16 SX	M10SX	0.750"	19mm	1.062"	27mm	1.250"	32mm	0.190"	4.8mm	0.032" - 0.406"
3/8-16 R	M10R	0.750"	19mm	1.687"	43mm	1.375"	35mm	0.150"	3.8mm	0.250" - 0.750"

*** PLEASE CONTACT US FOR SIZES NOT LISTED**

35 Year Master Flash®

The Only ICC Flashing of it's kind,
Listed with the Florida & California Building Codes®.
The first ICC listed flashing for the Metal Building
Industry with a 35 year warranty

One Compound: Black EPDM



35 Year Pipe Range: 1/8"-28-1/2" (0-136mm) • Base Range: 2-1/4" (57mm) to 34" (863mm)

Standard Master Flash®



Two Compounds:
EPDM / High Temp Red Silicone



BROWN



BLACK



GREY



WHITE



DARK GREEN



LIGHT GREEN



DARK BLUE



LIGHT BLUE



BRIGHT RED



TERRA COTTA

Mini Pipe Range: 1/8" - 3/4" (3 - 19mm)

Top opening: Closed • Cut to suit pipe size: 1/8" - 3/4" (3-19mm) • Base: 2 - 1/4" (57mm)

#1 Pipe Range: 1/4" - 2-3/4" (6 - 70mm)

Top opening: Closed • Cut to suit pipe size: 1/4" - 2-3/4" (6 - 70mm) • Base: 4-1/2" (114mm)

#2 Pipe Range: 7/8" - 4" (22 - 101mm)

Top opening: 7/8" (22mm) • Cut to suit pipe size: 7/8" - 4" (22 - 101mm) • Base: 6" (152mm)

#3 Pipe Range: 1/4" - 5-3/4" (6 - 146mm)

Top opening: Closed • Cut to suit pipe size : 1/4" - 5-3/4" (6 - 146mm) • Base: 8" (203mm)

#4 Pipe Range: 2-3/4" - 7" (70 - 177mm)

Top opening: 2-1/4" (57mm) • Cut to suit pipe size: 2-3/4" - 7" (70 - 177mm) • Base: 10" (254mm)

#5 Pipe Range: 4" - 8-1/4" (101 - 209mm)

Top opening: 3-1/2" (89mm) • Cut to suit pipe size : 4" - 8-1/4" (101 - 209mm) • Base: 11" (279mm)

#6 Pipe Range: 4-3/4" - 10" (121 - 254mm)

Top opening: 3-3/4" (95mm) • Cut to suit pipe size : 4-3/4" - 10" (121 - 254mm) • Base: 12" (304mm)

#7 Pipe Range: 5-1/2" - 11-1/2" (140 - 292mm)

Top opening: 4-3/4" (120mm) • Cut to suit pipe size : 5-1/2" - 11-1/2" (140 - 292mm) • Base: 14" (355mm)

#8 Pipe Range: 6-3/4" - 13-1/2" (171 - 343mm)

Top opening: 5-1/2" (140mm) • Cut to suit pipe size : 6-3/4" - 13-1/2" (171 - 343mm) • Base: 17" (431mm)

#8X Fix-A-Flash Pipe Range: Closed Top 0" - 15" (0-381mm)

Top opening: Closed • Cut to suit pipe size: Closed 0" - 15" (0-381mm) • Base: 19-1/2" (495mm)

#9 Pipe Range: 9-1/2" - 20-1/2" (241 - 520mm)

Top opening: 8" (203mm) • Cut to suit pipe size: 9-1/2" - 20-1/2" (241 - 520mm) • Base: 25" (635mm)

#9X Pipe Range: 8" - 20-1/2" (203 - 520mm)

Top opening: 6" (152mm) • Cut to suit pipe size: 8" - 20-1/2" (203 - 520mm) • Base: 25" (635mm)

Maxi Closed Pipe Range: 0" - 28-1/2" (0 - 724mm)

Top opening: Closed • Cut to suit pipe size : 0" - 28-1/2" (0 - 724mm) • Base: 34" (863mm)

Maxi Open Pipe Range: 12" - 28-1/2" (304 - 724mm)

Top opening: 10-1/4" (260mm) • Cut to suit pipe size: 12" - 28-1/2" (304 - 724mm) • Base: 34" (863mm)

NOTE: Colors are only available for the Standard & Universal Master Flash®

Universal Master Flash® All Around Performance



BROWN



BLACK



DARK GREY



LIGHT GREY



WHITE



DARK GREEN



LIGHT GREEN



DARK BLUE



LIGHT BLUE



BRIGHT RED



TERRA COTTA

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.

Mini Pipe Range: 0" - 3/4" (0 - 19mm)

Top opening: Closed • Overall height: 1-1/2" (38mm) • Base: 4" (101mm)

#1 Pipe Range: 1/4" - 2-1/2" (6 - 63mm)

Top opening: Closed • Overall height: 3-1/4" (82mm) • Base: 3-1/4" (82mm)

#2 Pipe Range: 1-3/4" - 3" (44 - 76mm)

Top opening: 1-1/4" (31mm) • Overall height: 4" (101mm) • Base: 6-1/4" (158mm)

#3 Pipe Range: 1/4" - 5" (6 - 127mm)

Top opening: Closed • Overall height: 4" (101mm) • Base: 7-3/4" (196mm)

#4 Pipe Range: 3" - 6-1/4" (76 - 158mm)

Top opening: 2-1/4" (57mm) • Overall height: 4-3/4" (120mm) • Base: 9-1/4" (234mm)

#5 Pipe Range: 4-1/4" - 7-3/4" (107 - 196mm)

Top opening: 3-1/2" (88mm) • Overall height: 4-1/4" (107mm) • Base: 10-1/2" (266mm)

#6 Pipe Range: 5" - 9" (127 - 228mm)

Top opening: 5" (127mm) • Overall height: 6" (152mm) • Base: 13" (330mm)

#7 Pipe Range: 6" - 11" (152 - 279mm)

Top opening: 5-1/2" (139mm) • Overall height: 5-1/2" (139mm) • Base: 14-1/2" (368mm)

#8 Pipe Range: 7" - 13" (177 - 330mm)

Top opening: 6" (152mm) • Overall height: 6" (152mm) • Base: 16-1/2" (412mm)

#9 Pipe Range: 9" - 19" (228 - 482mm)

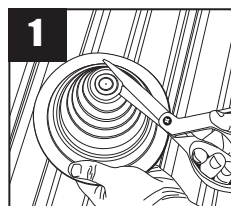
Top opening: 7-3/4" (196mm) • Overall height: 9" (228mm) • Base: 25 -1/4" (641mm)



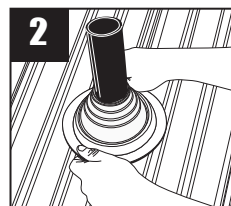
12 Colors • Two Compounds:
EPDM / High Temp Red & Grey Silicone



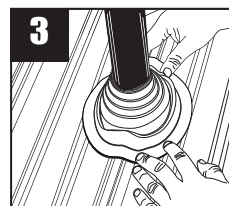
Measure & Trim



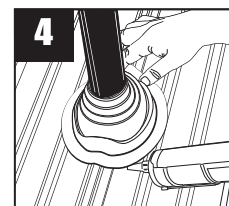
Slide



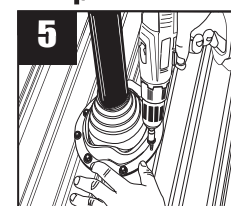
Form



Seal



Complete



Universal Retrofit Master Flash®



Two Compounds:
EPDM / High Temp Red & Grey Silicone

- | |
|--|
| #1 Pipe Range: 3/4" - 2-3/4" (19 - 70mm)
Top opening: 3/4" (19mm) • Cut to suit pipe size: 3/4" - 2-3/4" (19 - 69mm) • Base: 6 - 1/4" (158mm) |
| #2 Pipe Range: 2" - 7-1/4" (50 - 184mm)
Top opening: 2" (50mm) • Cut to suit pipe size: 2" - 7-1/4" (50 - 184mm) • Base: 10-3/4" (273mm) |
| #3 Pipe Range: 3-1/4" - 10" (95 - 254mm)
Top opening: 3-1/4" (50mm) • Cut to suit pipe size: 3-1/4" - 10" (95 - 254mm) • Base: 14-1/2" (368mm) |



Retrofit Master Flash®



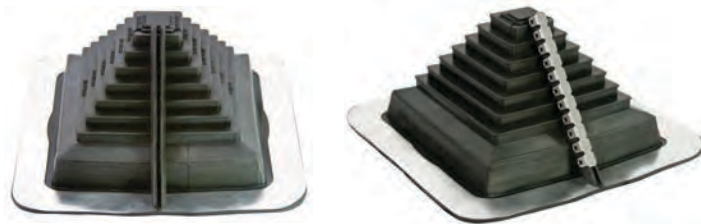
Two Compounds: EPDM / High Temp Red Silicone
 EPDM Application: plastic zip tie and fastener snaps included.
 Silicone Application: aluminum zip tie and fastener snaps included.

- | |
|---|
| #1 Pipe Range: 1/2" - 4" (12 - 101mm)
Top opening: 1/2" (12mm) • Cut to suit pipe size: 1/2" - 4" (12 - 101mm) • Base: 8-3/16" (205mm) |
| #2 Pipe Range: 4" - 9-1/4" (101 - 235mm)
Top opening: 4" (101mm) • Cut to suit pipe size: 4" - 9-1/4" (101 - 235mm) • Base: 14-1/4" (362mm) |
| #3 Pipe Range: 9-1/4" - 16-1/4" (235 - 412mm)
Top opening: 9-1/4" (235mm) • Cut to suit pipe size: 9-1/4" - 16-1/4" (235 - 412mm) • Base: 21-1/2" (546mm) |



Multi-Flash Square Vent Master Flash®

Two Applications • One Design

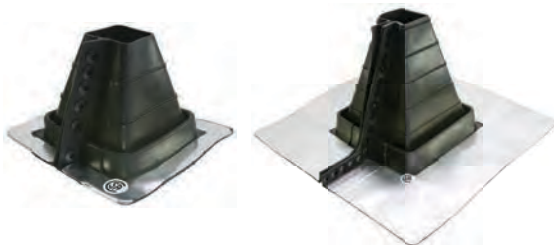


- Compound / EPDM
- Stainless steel gripper to secure a retro custom fit.

- | |
|---|
| #1 Pipe Range: Standard 3/8"-5" (20 - 125mm) Retrofit 1-1/2"-4" (38 - 101mm)
Top opening: Closed • Overall height: 3-3/4" (95mm) • Base: 8" (203mm) |
|---|

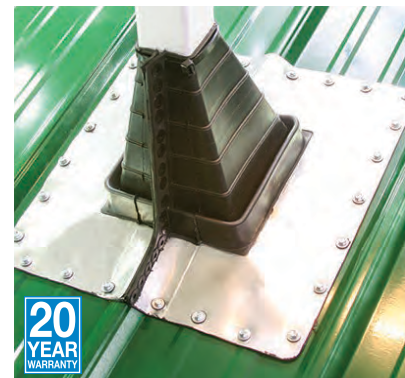


Square Vent Master Flash®



- Two Sizes / One Compound / EPDM

- | |
|---|
| #1 Pipe Range: 2-1/2" - 4" (63 - 101mm)
Top opening: 2-1/2" (63mm) • Cut to suit pipe size: 2-1/2" to 4" (63-101mm) • Base: 8" (203mm) |
| #2 Pipe Range: 2-1/4" - 5" (57 - 127mm)
Top opening: 2-1/4" (57mm) • Cut to suit pipe size: 2-1/4" to 5" (57-127mm) • Base: 15-3/4" (400mm) |



Multi-Flash Master Flash® “Two Flashings in one”



Two Compounds:
EPDM / High Temp Grey Silicone



Mini Port Pipe Range: Standard 1/4"-2-3/4" (6 - 70mm) Retrofit 1-1/4"-2-1/4" (25 - 57mm)
Top opening: Closed • Overall height: 2-1/4" (57mm) • Base: 4-1/2" (114mm)

#2 Pipe Range: Standard 7/8" - 4" (22 - 101mm) Retrofit 1/2" - 3-1/2" (12 - 89mm)
Top opening: 7/8" (22mm) • Overall height: 2-3/4" (70mm) • Base: 6" (152mm)

#3 Pipe Range: Standard 1/4" - 5-3/4" (6 - 146mm) Retrofit 2" - 4-1/2" (50 - 114mm)
Top opening: Closed • Overall height: 3" (76mm) • Base: 8" (203mm)

#4 Pipe Range: Standard 2-3/4" - 7" (70 - 177mm) Retrofit 2-1/4" - 6-1/2" (57 - 165mm)
Top opening: 2-3/4" (70mm) • Overall height: 4-3/4" (120mm) • Base: 10" (254mm)

#5 Pipe Range: Standard 4" - 8-1/4" (101 - 209mm) Retrofit 3-1/2" - 6-3/4" (90 - 171mm)
Top opening: 4" (101mm) • Overall height: 4" (101mm) • Base: 11" (279mm)

#6 Pipe Range: Standard 4-3/4" - 10" (121 - 254mm) Retrofit 4-1/4" - 9-1/2" (108 - 241mm)
Top opening: 4-3/4" (121mm) • Overall height: 4-1/2" (114mm) • Base: 12" (304mm)

#7 Pipe Range: Standard 5-1/2" - 11-1/2" (140 - 292mm) Retrofit 5" - 11" (127 - 279mm)
Top opening: 5-1/2" (140mm) • Overall height: 5-1/2" (140mm) • Base: 14" (355mm)

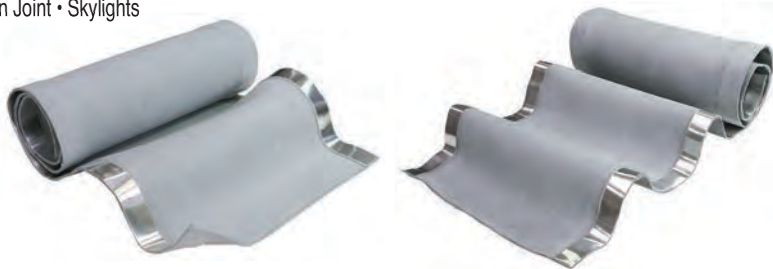
#8 Pipe Range: Standard 6-3/4" - 13-1/2" (171 - 343mm) Retrofit 6-1/2" - 12" (165 - 304mm)
Top opening: 6-3/4" (171mm) • Overall height: 5-3/4" (146mm) • Base: 17" (431mm)

#9 Pipe Range: Standard 9-1/2" - 20-1/2" (241 - 520mm) Retrofit 9" - 20" (228 - 508mm)
Top opening: 9-1/2" (241mm) • Overall height: 5-3/4" (146mm) • Base: 25" (635mm)

Maxi Pipe Range: Standard 12" - 28-1/2" (305 - 724mm) Retrofit 13" - 27" (330 - 685mm)
Top opening: 12" (304mm) • Overall height: 7-1/2" (190mm) • Base: 34" (863mm)

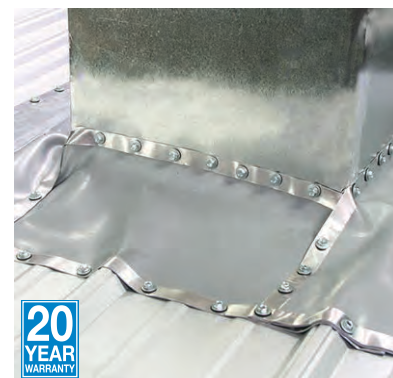
Box Gutter Expansion Joint Master Flash®

Applications: Transition Walls • Parapet Walls • Stepped Roofs • Corrugated Metal Roofs • Roof Penetrations
Expansion Joint • Skylights



Width: 9", 12", & 18" Thick: (.059) Available Lengths: 12', 33' & 50'

One Compound / EPDM



(SLF) Stretchable Linear Flash Master Flash® Roof Flashing System Stretch and Seal

Applications: Transition Walls • Parapet Walls • Stepped Roofs • Corrugated Metal Roofs • Roof Penetrations • Square Vents • Large Pipes • Skylights



One Compound / EPDM



Width: 11" (280mm) Thick (1.7mm) Available Lengths: 12' & 33'



Fix-A-Flash Master Flash® **Oversized hole in your roofing?** Aztec has the answer... The base is designed for a oversized hole cut for your pipe flashing



Two Compounds:
EPDM / High Temp Red Silicone

Fix-A-Flash Closed Top Pipe Range: 0"-15" (0 - 381mm)
Top opening: Closed • Overall height: 0" - 15" (0 - 381mm) • Large Base: 19-1/2" (495mm)



Extreme Angle Master Flash®

The built in 40° degree pitch allows to handle any extreme roof pitch (35° - 65°)



Two Compounds:
EPDM / High Temp Grey Silicone

#1 Pipe Range: 1/4" - 5-3/4" (6 - 146mm)
Top opening: Closed • Cut to suit pipe size: 1/4" - 5-3/4" (6 - 146mm) • Base: 11" (279mm)



Middy Master Flash®

"2 Port Design" Multiple Functions



Two Compounds:
EPDM / High Temp Red Silicone

Middy Pipe Range: ONE center port: 0" - 2" (0 - 50mm) • One side ports: 1/8" - 3/8" (3-9mm)
Top opening: Closed • Overall height: 2" (50mm) • Base: 3-3/4" (95mm)



Solar Multi-Port - MR (Metal Roof) Master Flash®

5 Port Design for the Metal Roofing Industry



Two Compounds:
EPDM / High Temp Red & Grey Silicone



SMP-MR Pipe Range: ONE Center port: 0" - 1-15/16" (0 - 49mm) • TWO Side ports: 3/8" (9.6mm) • TWO ports: 3/4" (20mm)
Top opening diameter: Closed • Overall height: 2-1/2" (63mm) • Base: 4-1/2" (114mm)

Residential Master Flash®

Available in Aluminum or Lead Base.

Two Compounds EPDM / Red / Grey Silicone

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

Self extinguishing feature enables use with type "B" vents



Mini Pipe Range: 1/4" - 3" (6 - 76mm)

Top opening diameter: Closed • Pull to suit pipe size: 1/4" - 3" (6-76mm) • Base: 16"X19-1/4" (410X490mm)

#1 Pipe Range: 3" - 8" (76 - 203mm)

Top opening diameter: 2-1/2" (63mm) • Pull to suit pipe size: 3" - 8" (76 - 203mm) • Base: 20"X24" (410X490mm)

#2 Pipe Range: 8" - 11" (203 - 279mm)

Top opening diameter: 5-5/8" (142mm) • Pull to suit pipe size: 8" - 11" (203 - 279mm) • Base: 26"X30" (660X762mm)

#3 Pipe Range: 11" - 18" (279 - 457mm)

Top opening diameter: Closed • Pull to suit pipe size: 11" - 18" (279 - 457mm) • Base: 35"X35" (889X889mm)

Solar Multi-Port - AL (Aluminum) or LD (Lead) Master Flash®



Two Compounds:
EPDM / High Temp Red Silicone



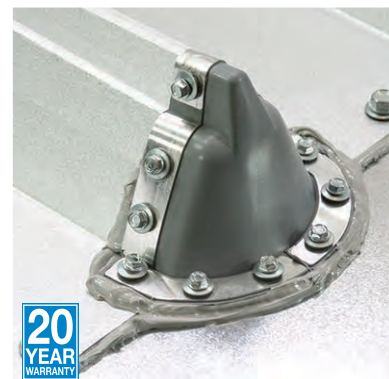
SMP-AL / LD Pipe Range: ONE Center port: 0" - 1-15/16" (0 - 49mm) Pipe • TWO Side ports: 3/8" (9.6mm) • TWO ports: 3/4" (20mm)
Top opening diameter: Closed • Overall height: 2-1/2" (63mm) • Base: AL 17-3/4" x 24" (450 x 600mm) LD 16" X 19-1/4" (410 X 490mm)

End Cap Master Flash®

Standing Seam Roof End Cap Flashing



Flexible width allows for most panel configurations
Expansion feature accommodates all seam heights
allows side wall of end cap to form on roof panels
Base allows application at both terminating points
of the sheeting or roofing material.



#Mini Overall Height: 3/4" (19mm)

Inner Depth: 2" (50mm) • Base: 2-3/4" (70mm) Wide X 3" (76mm) Long

#1 Overall Height: 3" (76mm)

Inner Wall Width: 3" (76mm) • Inner Depth: 2" (50mm) • Base: 4-1/4" (107mm)

#2 Overall Height: 3-1/4" (83mm)

Inner Wall Width: 5-1/4" (133mm) • Inner Depth: 4-1/4" (107mm) • Base: 7-1/4" (184mm)

Applications:
Skylights • Metal Curbs
Ridge Applications
Job site Retrofit

Solar-Flash Master Flash®

Specifically designed for solar applications



Two Compounds: EPDM / High Temp Red & Grey Silicone
The pitch canal allows for maximum flexibility, easily
accommodating up to a 60° degree pitch without affecting
performance.



#1 Pipe Range: 3/4"-1" (19 - 25mm)

Top opening: .60" (15mm) • Overall height: 2-1/2" (63mm) • Base: 4" (101mm)

Mini-Port Master Flash®



Two Compounds:
EPDM / High Temp Grey Silicone

Mini Port Pipe Range: Center port: 1-15/16" (0 - 49mm) Side port 3/8" (9.6mm)

Top opening: Closed • Cut to suit pipe size: 0" 13/16" (0 - 20mm) • Base: 3" (76mm)



Solar Multi-Port - CT (Clay Tile) Master Flash®

No Fasteners Required! Just WeatherMaster™ Sealant



One Compound:
EPDM Rubber



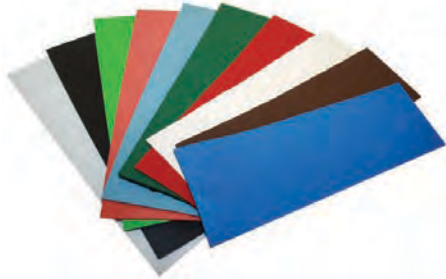
SMP-CT Pipe Range: ONE Center port: 0" - 1-15/16" (0 - 49mm) • TWO Side ports: 3/8" (9.6mm) • TWO ports: 3/4" (20mm)

Top opening diameter: Closed • Overall height: 2-1/2" (63mm) • Base: 4-1/2" (114mm)

Master Flash® Roof Pitch Calculator



As part of a standard classification system for rubber products these general specifications present conservative engineering minimums which should be used for design criteria.



ISO Quality, Price & Availability / Two Compounds

ADVANCED OZONE RESISTANCE tested to...		EPDM 70 hour @ 500 pphm	RED 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%

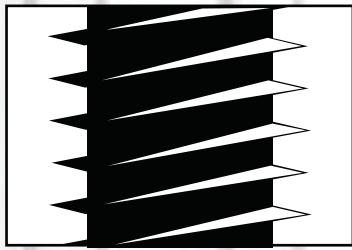
*Complete specification data and testing methods are available upon request.

EPDM Master Flash® Engineering Specifications		SILICONE Master Flash® Engineering Specifications	
ASTM D2000 M3 BA510 A14 B13 C12 F17 Z1 Z2 Z3 Z4 Z5 Z6 Z7		ASTM D2000 M4 GE 505 A19 B37 C12 F19 G11 Z1 Z2 Z3 Z4	
GRADE 3		GRADE 4	
TYPE B	GENERAL TEST TEMP 100C	TYPE G	GENERAL TEST TEMP 225C
CLASS A	VOLUME SWELL NO REQ	CLASS E	VOLUME SWELL MAX 80%
5	50 DUROMETER (RANGE)	5	50 DUROMETER (RANGE)
10	TENSILE 10 MPa (APPROX 1450 PSI)	05	TENSILE 5 MPa (MINIMUM 725 PSI)
A14	HEAT AGING 70 hrs @ 100C	A19	HEAT AGING 70 hrs @ 225C
B13	COMPRESSION SET 22 hrs @ 70C		CHANGE IN HARDNESS MAX + 10 pts
	MAX 25% ASTM D395B		CHANGE IN TENSILE MAX -30%
C12	OZONE RESISTANCE		CHANGE IN ULTIMATE ELONGATION MAX -30%
	70 hrs @ 50pphm ASTM D1171	B37	COMPRESSION SET 22 hrs @ 175C
	100% QUALITY RETENTION		MAX 50% ASTM D395B
F17	LOW TEMPERATURE BRITTLINESS	C12	OZONE RESISTANCE
	3 min @ -40C PASS ASTM D2137 A, 9.3.2		70 hrs @ 50pphm PASS ASTM D1171
Z1	55 DUROMETER (SPECIFIC TARGET)	F19	LOW TEMPERATURE BRITTLINESS
Z2	EPDM (SPECIFIC ELASTOMER)		3 min @ -40C PASS ASTM D2137 A, 9. 3. 2
Z3	HORIZONTAL FLAME RESISTANCE, UL 94	G11	TEAR RESISTANCE, ASTM D-624, DIE "B"
	NOT TO EXCEED 3" / min	Z1	55 DUROMETER (SPECIFIC TARGET)
Z4	OZONE RESISTANCE ADVANCED REQUIREMENT	Z2	SILICONE (SPECIFIC ELASTOMER)
	70 hrs @ 500 pphm @ 100F	Z3	HORIZONTAL FLAME RESISTANCE, UL 94
Z5	ACCELERATED WEATHERING RESISTANCE		NOT TO EXCEED 3" / min
	(U.V. LIGHT), ASTM G-53	Z4	OZONE RESISTANCE ADVANCED REQUIREMENT
Z6	TEAR RESISTANCE, ASTM D-624, DIE "C"		70 hrs @ 500 pphm @ 100F
Z7	RESISTANCE TO DISCOLORATION, ASTM D-1148 (GREY ONLY)		

The "Z" Parameters are proprietary standards adopted by Aztec Washer to more clearly indicate the type of material and its superior performance characteristics as related to the typical pipe flashing environment.

NOTE: the additional of "Z3" to assure compliance with international building codes and "Z4" which clearly exceeds the performance required by the industry standard, "C12".

The Master Flash pipe flashing enjoys the only listing granted to date by the International Association of Plumbing and Mechanical Officials and carries the U.P.C. (Uniform Plumbing Code) seal.



HAWK

FASTENER SERVICES, L.L.C.

