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Master Flash® Solar Multi-Port MR

1.1 Master Flash® Solar Multi-Port MR – Karta Techniczna Produktu

- Master Flash® Square Vent Multi-Flash wykonany jest z gumy EPDM (ethylene propylene diene monomer) lub silikonu. Zaprojektowany został specjalnie do zastosowań solarnych
- Podstawa kołnierza jest wzmocniona wstawką ze zwulkanizowanego aluminium, która umożliwia łatwe dopasowanie do geometrii pokrycia dachowego.
- Kołnierze uszczelniające przeznaczone są do uszczelniania wodoszczelnego wokół elementów instalacyjnych/kanałów penetrujących połać dachu (tj. rury wentylacyjne, kanały solarne, przewody kominowe, i przewody elektryczne lub inne elementy przechodzące przez połać dachową).
- Kołnierze Master Flash® mogą być stosowane na różnych rodzajach dachów metalowych, w tym profilowanych blachodachówkach, blachach płaskich, blachach trapezowych.

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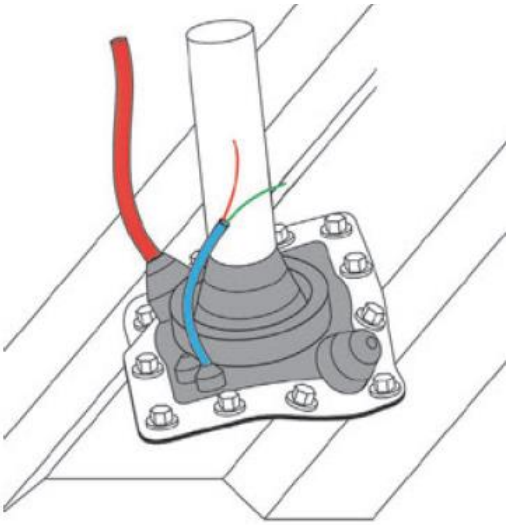
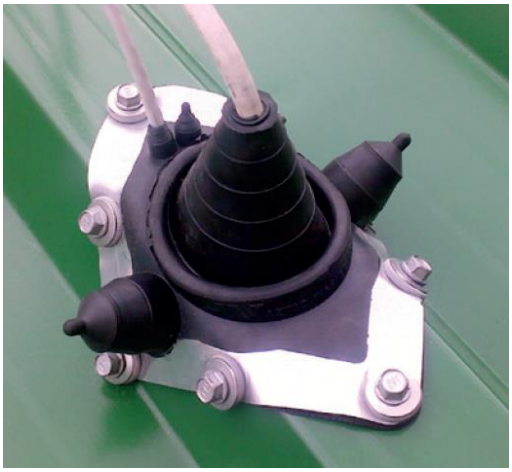
1.2 Master Flash® Solar Multi-Port MR – Specyfikacja materiału oraz rozmiary

Master Flash®		EPDM 500	Silicone
ADVANCED OZONE RESISTANCE tested to:		70 h @ 500 pphm	70 h @ 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)
TENSILE SET maximum		10 MPa (1450 psi)	5 MPa (725 psi)
COMPRESSION SET maximum		25%	50%





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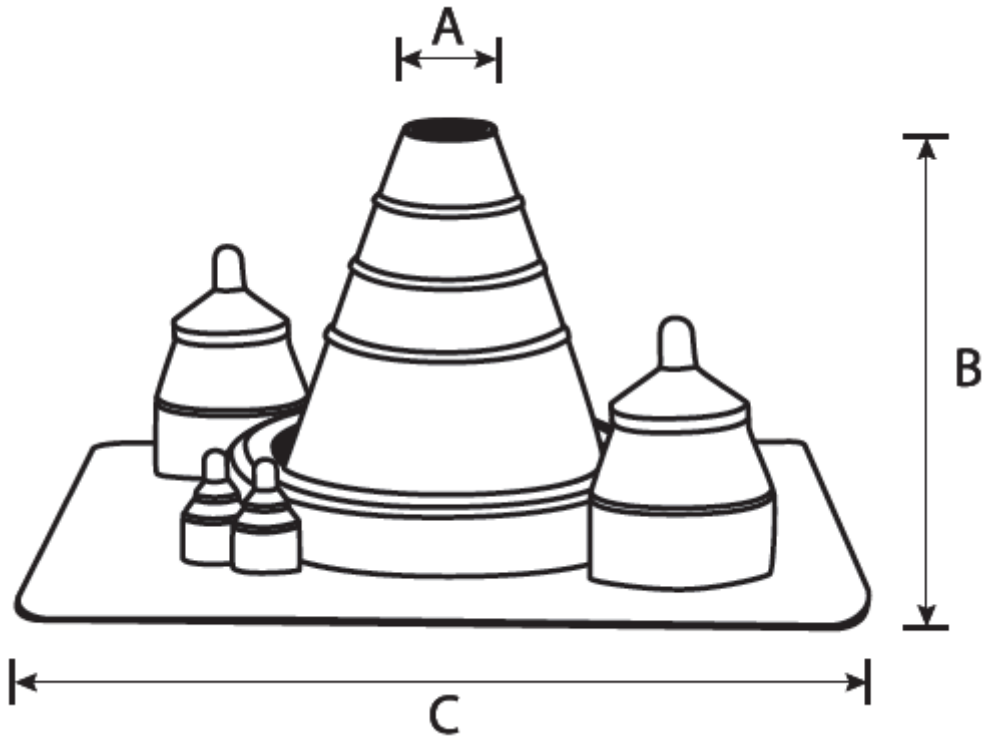

Master Flash® Solar Multi-Port

No.	Pipe range	Material	Black EPDM Catalogue Number	A-Top Opening	B-Overall Height	C-Base Dimensions
1	One center port 0" - 1 - 15/16" (0 - 49 mm) Pipe Two ports 1/64" - 3/8" (1 - 9 mm) pipe / cable Two ports 3/16" - 15/16" (4 - 23 mm) pipe / cable	Black or Grey EPDM, Silicone	SMP-MR101BA	Closed	2 - 1/2" (63 mm)	4 - 1/2" (114 mm)

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COMPOUND AND SPECIFICATION DATA FOR MASTER FLASH® BLACK EPDM

TYPICAL PHYSICAL PROPERTIES OF MF EPDM
ASTM D2000 M3BA510 A14, B13, C12, F17, Z1, Z2, Z3, Z4, Z5.

PROPERTY		VALUE	TEST METHOD
BASE MATERIAL		CROSS LINKED EPDM ETHYLENE PROPYLENE DIENE TERPOLYMER	N/A
COLOR		BLACK	N/A
TEST LEVEL		3	GRADE
TEST TEMPERATURE		B 100° C	GRADE
VOLUME SWELL		NO REQUIREMENT	CLASS
DUROMETER		50 (SHORE)	ASTM D 2240
TENSILE STRENGHT		10 MPA (1450 psi) MINIMUM	ASTM D 412
A14	HEAT AGING	70 hrs. @ 100° C Change in hardness Max +10 pts Change in tensile Max -25 % Change in ultimate elong. Max -25%	ASTM D 573
B13	COMPRESSION SET	22 hrs. @ 70 ° C MAX 25 %	ASTM D 395 B
C12	OZONE RESISTANCE	70 hrs. @ 50 pphm	ASTM D 1171
F17	LOW TEMPERATURE BRITTLENESS	3 MINUTES @ -40° C PASS	ASTM D 2137A, 9.3.2
Z1	TARGET HARDNESS	55 +/-5 SHORE A	ASTM 2240
Z2	SPECIFIC RUBBER	EPDM	PASS
Z3	HORIZONTAL FLAME RESISTANCE	NOT TO EXCEED 3 IN/ MINUTE	ASTM 2240

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COMPOUND AND SPECIFICATION DATA FOR MASTER FLASH® SILICONE

TYPICAL PHYSICAL PROPERTIES OF MF SILICONE
ASTM D2000 M4 GE 505 A19, B37, C12, F19, Z1, Z2, Z3, Z4, Z5, Z6, Z7.

PROPERTY		VALUE	TEST METHOD
BASE MATERIAL		SILICONE	N/A
COLOR		TERRA COTTA/GRAY	N/A
TEST LEVEL		4	GRADE
TEST TEMPERATURE		225° C	GRADE
VOLUME SWELL		MAX 80%	CLASS
DUROMETER		50 (SHORE)	ASTM D 2240
TENSILE STRENGHT		5 MPA (725 psi) MINIMUM	ASTM D 412
ULTIMATE ELONGATION		250 % MINIMUM	ASTM 412
A19	HEAT AGING	70 hrs. @ 225 C Change in hardness Max +10 pts Change in tensile Max -25 % Change in ultimate elong. Max -30%	ASTM D 573
B37	COMPRESSION SET	22 hrs. @ 175° C MAX 25%	ASTM D 395 B
C12	OZONE RESISTANCE	70 hrs. @ 50 pphm 38° C 100% quality retention	ASTM D 1171
F19	LOW TEMPERATURE BRITTLENESS	3 MINUTES @ -55° C (-67° F)	ASTM D 2137A, 9.3.2
Z1	TARGET HARDNESS	55 SHORE A	ASTM 2240
Z2	SPECIFIC RUBBER	SILICONE	N/A
Z3	HORIZONTAL FLAME RESISTANCE	NOT TO EXCEED 3 IN/ MINUTE	UL-94