



MM[®] FGS Expansion Joint Gutter

Flexible Rubber Gutter System

SPECIALTY DATA
MM Systems Corp. • 50 MM Way, Pendergrass, GA 30567 • 866.506.6929 • www.mmsystems.com

DESCRIPTION

FGS is a high performance fabric reinforced rubber gutter system for additional waterproofing of expansion joint openings. The FGS is a continuous EPDM fabric reinforced rubber gutter that is secured in place with an aluminum mounting plate that creates a watertight seal. The system is capable of multi-directional movement and is available with an optional flexible drain tube assembly.

BASIC USE

FGS is a fabric-reinforced rubber gutter moisture collection system for parking structures, stadiums, buildings and bridges. The system is ideal for use as a secondary waterproofing system to protect occupied commercial space. The system can also be used to extend the service life of an expansion joint that is leaking but still capable of carrying traffic loads.

FEATURES

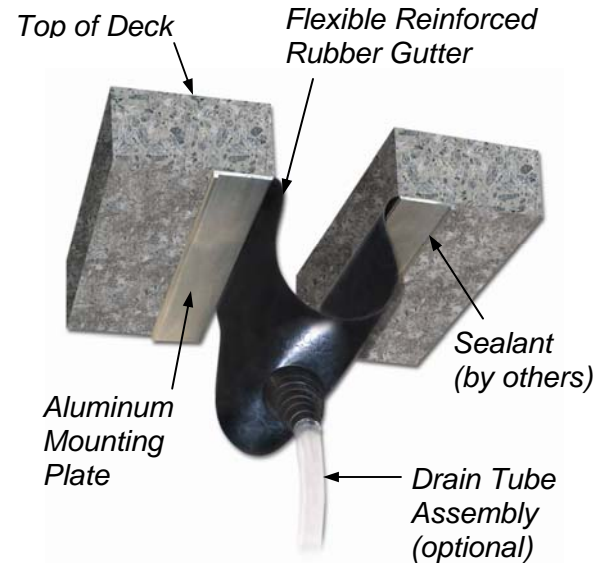
- Collects and moves water away from the expansion joint opening.
- Capable of thermal, seismic, vertical and lateral shear movement.
- Rubber gutter is fabric reinforced to minimize material elongation.
- +/- 100% movement capability.
- Cost-effective solution for remedial repair of leaking expansion joint systems.
- Exceptionally durable solution for secondary protection of occupied commercial or retail office space.
- Resistant to UV, ozone, acid rain, most chemicals and extreme temperatures.
- Accommodates complex miters and changes in direction.

SPECIAL FEATURES

- Fire Barriers - MM expansion joint systems are available with a 2 - 4 hour fire protection ratings.

LIMITATIONS

- FGS shall be pitched towards and tied into the structures drainage system.
- Expansion joint structural opening substrate must be sound concrete without cracks and spalls.



PACKAGING

FGS fabric-reinforced EPDM rubber is supplied in rolls and packaged in cartons.

Aluminum Mounting Plates are supplied in standard 10-foot lengths.

Accessories and hardware packaged in cardboard cartons.

STORAGE

All materials should be stored in a cool, dry location prior to use.

COLOR OPTIONS

FGS is available in UV stable black meeting requirements of ASTM C864.

PRECAUTIONS

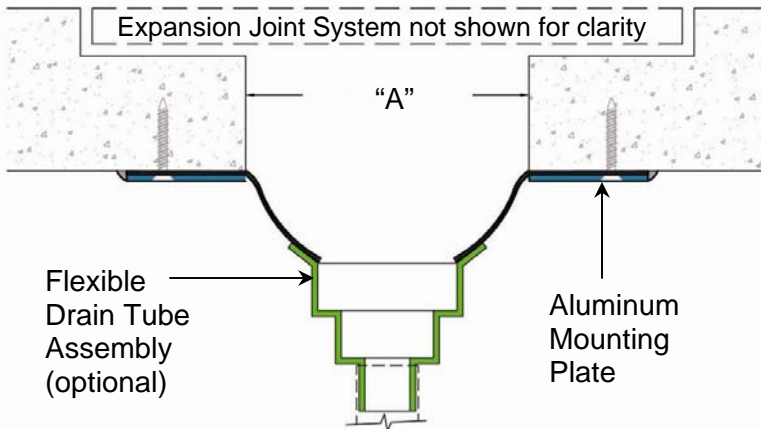
Use splash goggles and chemical resistant gloves to avoid prolonged or repeated skin contact with polyurethane sealant. Use with adequate ventilation. Read and follow labels and Material Safety Data Sheet from polyurethane sealant manufacturer before use.

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SELECTION GUIDE

Model Number	Total Movement		Joint Opening "A"					
			Minimum		Nominal		Maximum	
FGS-12	5.0	127	0.00	0	2.50	64	5.00	127
FGS-18	11.0	279	0.00	0	5.50	140	11.0	279
FGS-24	17.0	432	0.00	0	8.50	216	17.0	432
FGS-30	23.0	584	0.00	0	11.5	292	23.0	584
FGS-36	29.0	737	0.00	0	14.5	368	29.0	737
FGS-42	35.0	889	0.00	0	17.5	445	35.0	889
FGS-48	41.0	1041	0.00	0	20.0	508	41.0	1041

Dimensions are in **inches** (bold) and millimeters.



PHYSICAL PROPERTIES

Physical Property	Test Method	Typical Value
EPDM Fabric Reinforced Rubber		
Tensile strength	ASTM D412	1000 psi
Elongation	ASTM D412	250%
Hardness, shore A	ASTM D2240	70 +/-5
Tear Strength	ASTM D695	150 ppi
Fabric Reinforcement		4 ounce polyester
EPDM Rubber Thickness		60-mil
Temperature Range		-30F to +200F

Listed properties are approximate values - actual field results may vary.

LIMITED WARRANTY

MM Systems warrants the Flexible Gutter System to be free of defects in material and conform to technical data listed. Since methods of application can affect performance and on site conditions are beyond our control, MM Systems makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

MM Systems sole obligation shall be, at its option, to replace, or to refund the purchase price of the quantity of system proved to be defective. In no event shall MM Systems be liable for any special, incidental, consequential, loss of profits or punitive damages. Other warranties may be available when installed by a MM Systems Certified Contractor.

INSTALLATION

- 1) Remove and repair all unsound concrete.
- 2) Area adjacent to the joint opening must be clean and dry prior to installation.
- 3) Unroll gutter and allow it to relax in the sun for as long as possible before installation.
- 4) Clean and prepare termination section at each end of gutter per the installation instructions.
- 5) Attach flexible drain tube assembly near the structures drainage system.
- 6) Install gutter and slope towards the structures drainage system.
- 7) Attach aluminum mounting plates.
- 8) Caulk edge of aluminum mounting plate with polyurethane sealant (supplied by others).
- 9) Tie the flexible drain tube assembly into the structures drainage system.
- 10) Refer to FGS Installation Guideline for detailed step-by-step instructions.

MM Systems reserves the right to amend or withdraw information contained herein, without notice, and will not be liable for any inaccuracy or ambiguity of said information.

Current Issue 3-09-09



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