



# MM<sup>®</sup> FGS Expansion Joint Gutter

## Flexible Rubber Gutter System

SPECIALTY DATA  
 MM Systems Corporation • 50 MM Way, Pendergrass, GA 30567 • 800.241.3460 • www.mm-usa.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

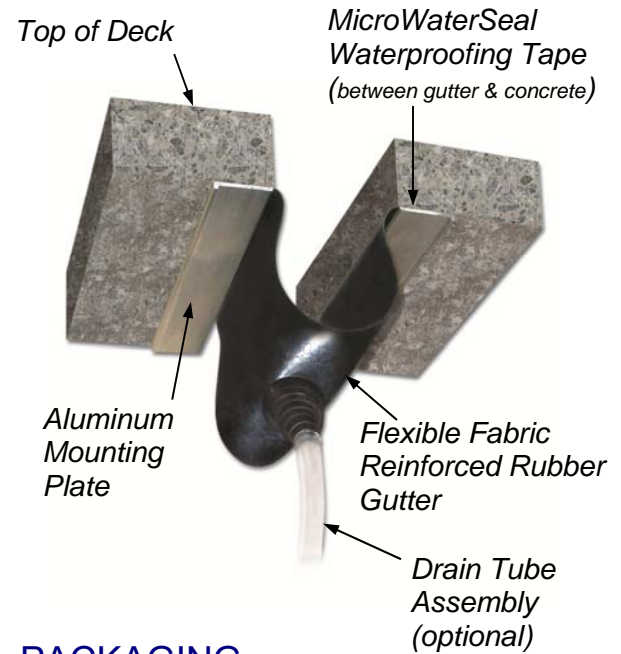
- Collects and moves water away from the expansion joint opening.
- Capable of thermal, seismic, vertical and lateral shear movement.
- +/- 100% movement capability with ability to accommodate complex changes in direction.
- Cost-effective solution for remedial repair of leaking expansion joint systems.
- Exceptional solution for secondary protection over occupied commercial or retail office space.
- Rubber gutter is fabric reinforced to minimize material elongation.
- Resistant to UV, ozone, acid rain, most chemicals and extreme temperatures.
- Service life analysis (Arrhenius methodology) confirms that EPDM fabric reinforced rubber gutter will meet or exceed the life expectancy of the surrounding construction.

### 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.

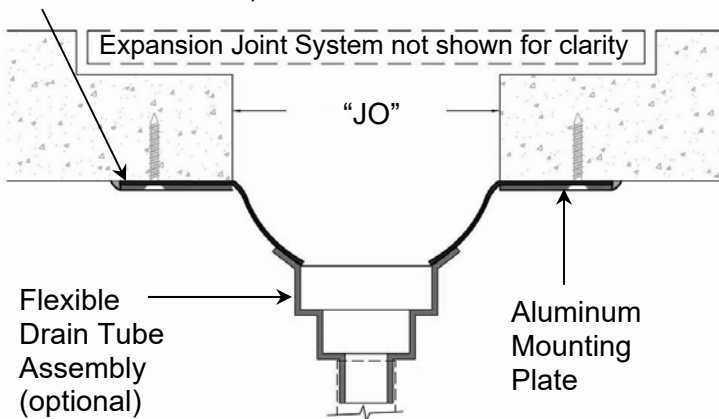
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## SELECTION GUIDE

Model Number	Total Movement		Joint Opening "JO"					
			Minimum		Nominal		Maximum	
FGS-12	<b>5.0</b>	127	<b>0.00</b>	0	<b>3.00</b>	64	<b>5.00</b>	127
FGS-18	<b>11.0</b>	279	<b>0.00</b>	0	<b>6.00</b>	140	<b>11.0</b>	279
FGS-24	<b>17.0</b>	432	<b>0.00</b>	0	<b>9.00</b>	216	<b>17.0</b>	432
FGS-30	<b>23.0</b>	584	<b>0.00</b>	0	<b>12.0</b>	292	<b>23.0</b>	584
FGS-36	<b>29.0</b>	737	<b>0.00</b>	0	<b>14.0</b>	368	<b>29.0</b>	737
FGS-42	<b>35.0</b>	889	<b>0.00</b>	0	<b>17.0</b>	445	<b>35.0</b>	889
FGS-48	<b>41.0</b>	1041	<b>0.00</b>	0	<b>20.0</b>	508	<b>41.0</b>	1041

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

MicroWaterSeal Waterproofing Tape  
(between gutter & concrete)



## PHYSICAL PROPERTIES

Physical Property	Test Method	Typical Value
<b>EPDM Fabric Reinforced Rubber</b>		
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 onsite 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 prior to installation.
- 4) Use aluminum mounting plate as a template to locate and pre-drill anchor holes.
- 5) Clean and prepare termination section at each end of gutter per the installation instructions.
- 6) Attach flexible drain tube assembly near the structures drainage system (as required).
- 7) Apply MicroWaterSeal Tape to the underside of the concrete deck on each side of the structural joint opening.
- 8) Adhere gutter to MicroWaterSeal Tape and slope towards the structures drainage system.
- 9) Attach aluminum mounting plates.
- 10) Tie the flexible drain tube assembly into the structures drainage system (as required).
- 11) Refer to FGS Install Guide 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.

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Spec Data