



MM[®] Flexible Gutter System

FGS Series Water Management System

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 and Microwaterseal Tape 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 water collection system for parking structures, stadiums, buildings and bridges. The FGS 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.

PERFORMANCE FEATURES

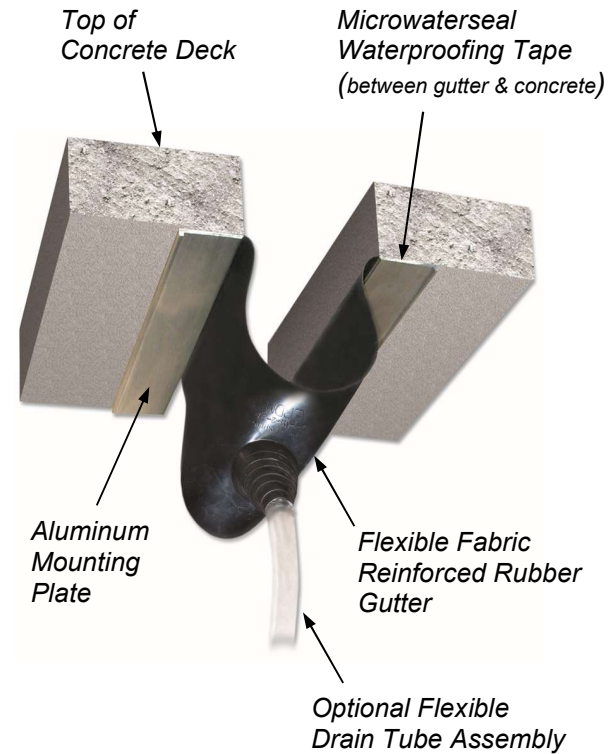
- Collects and moves water away from the expansion joint opening.
- Capable of thermal, seismic, vertical and lateral shear movement.
- +/- 100% movement capability with ability to accommodate complex changes in direction.
- Cost-effective solution for remedial repair of leaking expansion joint systems.
- 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

- FGS can be pitched towards and tied into the structures drainage system.

LIMITATIONS

- Expansion joint structural opening substrate must be sound concrete without cracks and spalls.



NOTE: Expansion Joint installed above FGS Series Gutter is not shown .

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.

LIMITATIONS

Expansion joint structural opening substrate must be sound concrete without cracks and spalls.

STORAGE & PROTECTION

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

COLOR OPTIONS

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

PRECAUTIONS

Use protective goggles and gloves. Read and follow labels and the Safety Data Sheet before use.

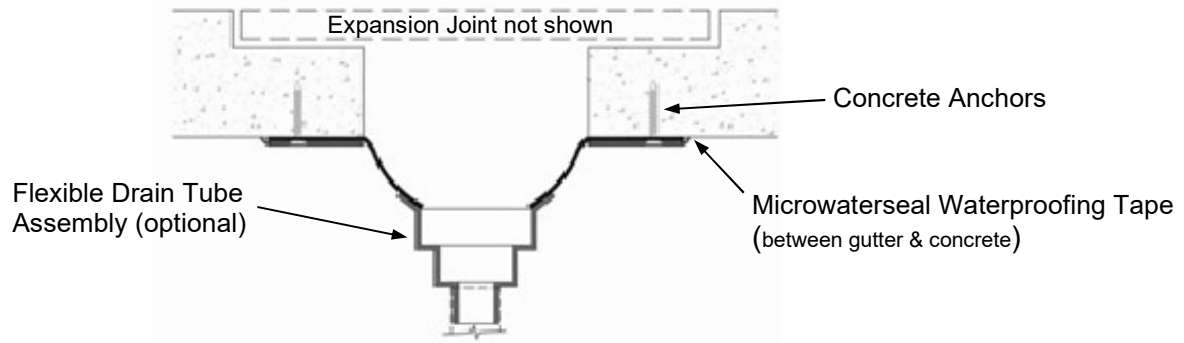
SPEC DATA

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JOINT OPENING SIZE CONFIRMATION

Prior to installation always confirm that system sizes supplied will accommodate both the minimum and maximum joint width. Refer to MM Systems product drawings and project specific contract drawings. Too often expansion joint openings are sized without adjustment resulting in larger than anticipated openings. Not knowing the actual expected minimum and maximum joint opening may result in product failure or costly replacement orders if not properly sized.



TECHNICAL DATA

Material: EPDM Fabric Reinforced Rubber
Nominal Thickness: 60 mil (ASTM D1777)
Fabric Reinforcement: 4-ounce polyester
Elongation: 250% (ASTM D412)

Hardness, shore A: 70 +/-5 (ASTM D2240)
Tear Strength (tongue): 150 ppi (ASTM 695)
Temperature Range: -0F to +200F

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

INSTALLATION

- 1) FGS is supplied in practical continuous lengths. Determine the quantity required for each joint run.
- 2) Remove and repair all unsound concrete.
- 3) Unroll gutter and allow it to relax in the sun for as long as possible prior to installation.
- 4) Attach optional flexible drain tube assembly as required.
- 5) Use aluminum predrilled mounting plate as template to locate and pre-drill anchor pilot holes.
- 6) Apply microwaterseal tape to the underside of the concrete deck and adhere FGS gutter to it.
- 7) Attach aluminum mounting plates with anchors provided.
- 8) Connect optional flexible drain tube assembly into the structures drainage system as required.
- 9) Refer to the FGS Series Install Guide for detailed step-by-step instructions.

LIMITED WARRANTY

MM Systems warrants the FGS to be free of defects in material and conform to technical data listed. We make no warranty as to color or appearance. 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 the 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 an MM Systems Certified Contractor.

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