



MM[®] Pyro-Flex / UPF Series

Under-Slab Fire Barrier Protection System

SPECC DATA
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DESCRIPTION

The Under-Slab Pyro-Flex Fire Barrier Protection System is the market's first Underslab fire barrier system. Pyro-Flex is an engineered high performance fire resistive system for sealing expansion joint openings. The system is comprised of a flexible, high purity ceramic fiber blanket, stainless steel foil and a matrix of fire resistive cloth as required to achieve a specified protection and endurance rating. System is secured directly to the underside of the expansion joint opening.

BASIC USE

UPF is a fire resistive sealing system designed for sealing expansion joint openings in parking structures, buildings and other structures exposed to exterior weather conditions.

PERFORMANCE STANDARDS

- UL 2079-Class I, II and III
- ASTM E-1966
- ASTM E- 1399

CODE COMPLIANCE

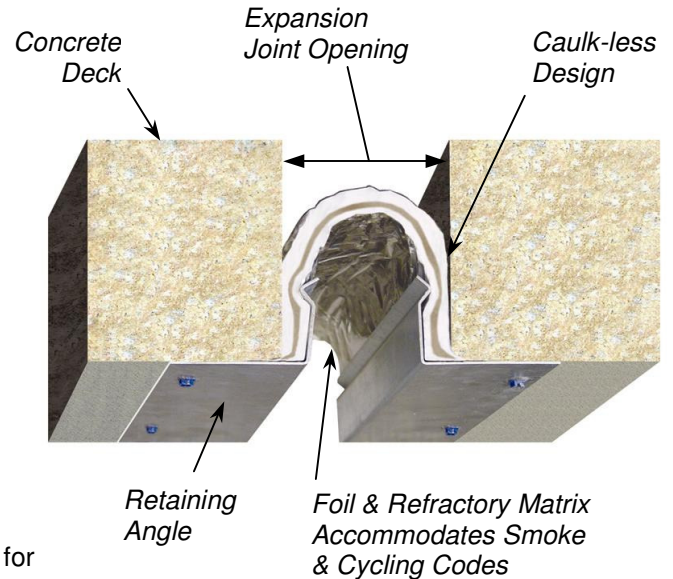
- UBC, SBC, BOCA
- International Building Code
- CAN-S101

FEATURES

- Designed to provide the required fire endurance rating of 2 through 4 hours.
- Up to 18" fire resistance ratings.
- Listed with an accredited independent laboratory.
- Accommodates dynamic movement without stress or degradation to its components.
- Minimizes passage of smoke.

SPECIAL FEATURES

- Design compatible with most waterproof expansion joints – no underside cover required.
- No fire resistive caulks required.
- Accommodates seismic lateral shear.



Thermal, Seismic & Shear Movement Designs Available

No Underside Cover Plates Required!

PACKAGING

PyroFlex supplied in 12.5 to 25 foot lengths shipped on wooden pallets or cardboard cartons. Metal retainers supplied in 10-foot lengths shipped on wooden pallets or cardboard cartons. Hardware and other accessories packaged in cardboard cartons.

STORAGE & PROTECTION

All materials should be stored in a completely dry location prior to use. Fire Barrier must be kept dry before, during and after installation.

LIMITATIONS

- Expansion joint openings must be parallel and straight to achieve fire-resistive seal.
- Adjacent construction must have fire-resistive ratings equal to or greater than the rating of the fire barrier systems.

PRECAUTIONS

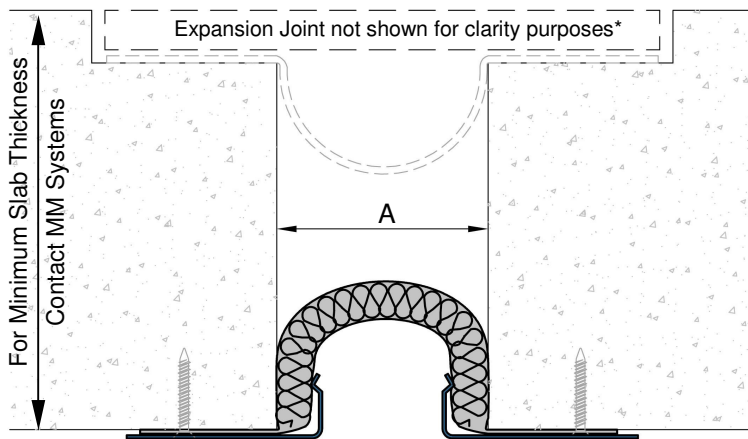
Use protective goggles and gloves. Read and follow labels and Material Safety Data Sheet before use.

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SELECTION GUIDE

Model Number	Total Movement		Joint Opening "A"					
			Min.		Nominal		Max.	
UPF-2018F-SC 2-1	2.0	51	1.0	25	2	51	3.00	76
UPF-2018F-SC 2.5-1.25	2.5	64	1.25	25	2.5	64	3.75	96
UPF-2018F-SC 3-1.5	3.0	76	1.5	38	3	76	4.50	114
UPF-2018F-SC 4-2	4.0	102	2.0	51	4	102	6.00	152
UPF-2018F-SC 5-2.5	5.0	127	2.5	64	5	127	7.50	191
UPF-2018F-SC 6-3	6.0	152	3.0	76	6	152	9.00	229
UPF-2018F-SC 8-4	8.0	203	4.0	102	8	203	12.0	305
UPF-2018F-SC 12-6	12.0	305	6.0	152	12	305	18.0	457

Contact MM Systems for larger sizes and project specific designs.
UPF Series requires a waterproof expansion joint or cover over the fire barrier.



Under Slab Pyro-Flex Series
*(*elastomeric or metal cover plate required)*

INSTALLATION

1. Remove and repair all unsound concrete in and around the joint opening. All spalls must be repaired with compatible patching material.
2. Uncoil fire barrier and fold into a "U" shape configuration.
3. Install fire barrier into underslab expansion joint opening.
4. Attach metal retaining angles.
5. Install anchors at specified intervals.
6. Refer to the UPF Installation Guideline for detailed step-by-step instructions.

LIMITED WARRANTY

MM Systems warrants the MM Pyro-Flex System 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 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 Certified Contractor.

TESTING COMPLIANCE

1. Certified and listed by an accredited third party witnessing agency.
2. Tested in accordance with International Building Code Section 713.3, ASTM E1966 and UL 2079 at a maximum listed expansion joint opening as defined by ASTM E1399.
3. Minimizes passage of smoke.
4. Cycle tested full length incorporating splice transitions. Pyro-Flex fire barrier system meets or exceeds the following dynamic movement requirements (cpm equals cycles per minute):
Type IV: 100 cycles at 30 (cpm), followed by 400 cycles at 10 (cpm).

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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