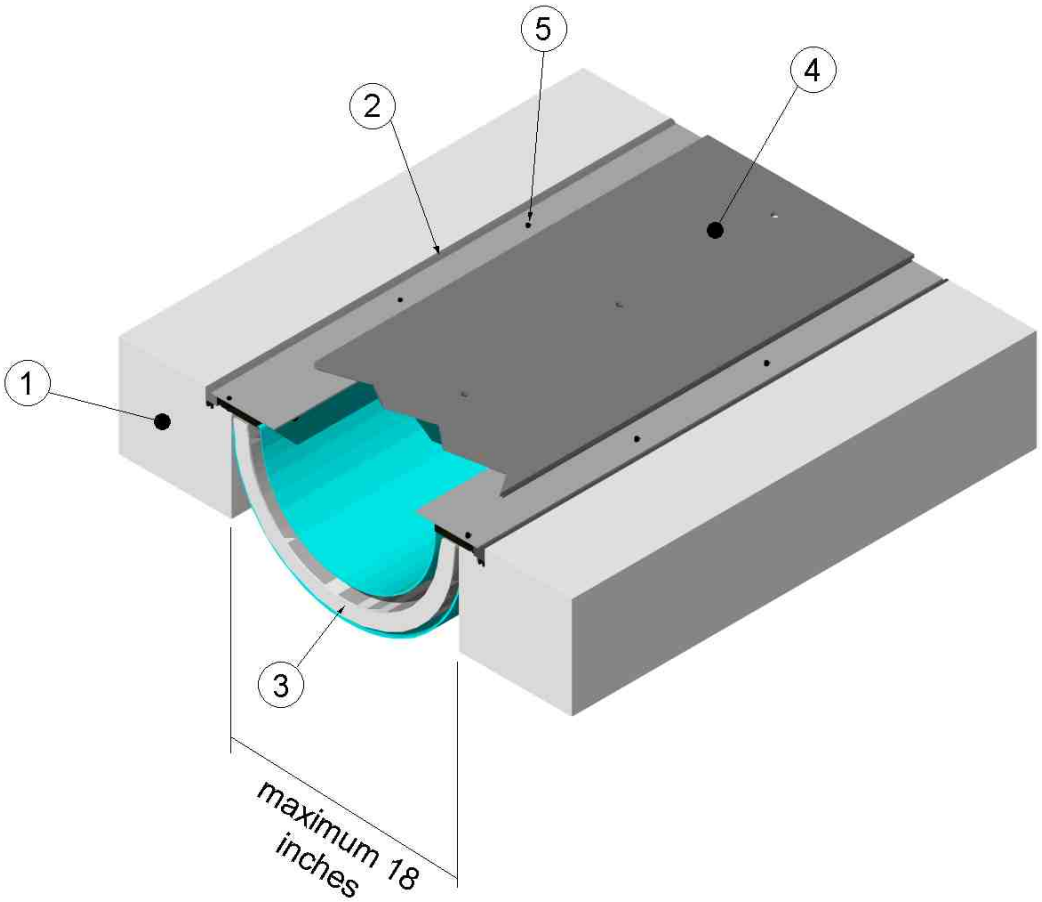
Design Number MM/EJH 120-01
(formerly OPL Design No. CEJ 501 F)
FLOOR EXPANSION JOINT (Horizontal)
MM Systems Corporation
Pyro-Flex®
ASTM E 1966 / UL 2079
2 Hours
UL 2079
L-Rating = 0 SCFM/LF
ASTM E 1399 / ASTM E 1966 / UL 2079
Cycling – Class IV
± 50% Horizontal Movement



1. CONCRETE FLOOR ASSEMBLY: Construct a two-hour-rated concrete floor assembly made from either lightweight or normal weight concrete with a density of 100 - 150 pounds per cubic foot, with a minimum thickness of 4-1/2 inches at the joint face. When a longitudinal recess (blockout) is required to contain an architectural joint system, increase concrete floor assembly

thickness to maintain a minimum thickness of 4-1/2 inches and accommodate depth of blockout formed in the concrete: blockout width unrestricted.

2. GROUT: Mix masonry grout in accordance with instructions on packaging. Apply and fill blockout with masonry grout. Screed the grout flush with wearing surface of concrete floor assembly (item 1) and architectural cover (Item 4).

3. CERTIFIED MANUFACTURER: MM Systems Corporation

   CERTIFIED PRODUCT: Pyro-Flex® Fire Barriers

   SERIES: PF-2018F-SC Series

   JOINT TREATMENT: Construct a fire barrier composed of layered fabric or metallic sheets and fibrous components mechanically attached to the concrete floor assembly (Item 1). Refer to Table 1 for maximum joint widths and corresponding minimum joint widths and movements related to specific model number. Joint treatment's total movement (contraction + expansion) occurs between the maximum joint width and minimum joint width. Install joint treatment in accordance with certified manufacturer's joint treatment installation instructions.

4. CERTIFIED MANUFACTURER: MM Systems Corporation

   CERTIFIED PRODUCT: Metallic and Elastomeric Joint Systems

   SERIES: EJA and EJP Product Section

   ARCHITECTURAL COVER: Use either a metal or elastomeric architectural or commercial cover meeting the following requirements. The thickness of the metal architectural cover varies with joint width and load requirements. Use a metal architectural cover with a minimum thickness of 0.125 inches, formed of aluminum, brass, bronze or 24-gauge galvanized steel or stainless steel. Or, when required, use an elastomeric joint seal constructed of Santoprene, EPDM or PVC elastomer. Install the metal or elastomeric architectural cover in accordance with certified manufacturer's installation instructions.

5. FASTENERS: Use minimum 1/4-inch by 2-3/4-inch-long concrete fasteners spaced maximum 24 inches on center to secure the joint treatment (Item 2) to the concrete floor assembly (Item 1).

Table 1			
Model Number	**W_{max} (inches)**	**W_{min} (inches)**	***M*** **(inches)**
PF-2018F-SC 1-1	2.0	0.875	1.125
PF-2018F-SC 2-1	3.0	1.0	2.0
PF-2018F-SC 2-2	4.0	2.0	2.0
PF-2018F-SC 3-1.5	4.5	1.5	3.0
PF-2018F-SC 3-3	6.0	3.0	3.0
PF-2018F-SC 4-2	6.0	2.0	4.0
PF-2018F-SC 4-4	8.0	4.0	4.0
PF-2018F-SC 5-2.5	7.5	2.5	5.0
PF-2018F-SC 5-5	10.0	5.0	5.0
PF-2018F-SC 6-3	9.0	3.0	6.0
PF-2018F-SC 6-6	12.0	6.0	6.0
PF-2018F-SC 7-3.5	10.5	3.5	7.0
PF-2018F-SC 7-7	14.0	7.0	7.0
PF-2018F-SC 8-4	12.0	4.0	8.0
PF-2018F-SC 8-8	16.0	8.0	8.0
PF-2018F-SC 9-4.5	13.5	4.5	9.0
PF-2018F-SC 9-9	18.0	9.0	9.0
PF-2018F-SC 10-5	15.0	5.0	10.0
PF-2018F-SC 11-5.5	16.5	5.5	11.0
PF-2018F-SC 12-6	18.0	6.0	12.0

Table 1. Summary of movement capability, *M*, as related to maximum joint width, W_{max}, and minimum joint width, W_{min}.