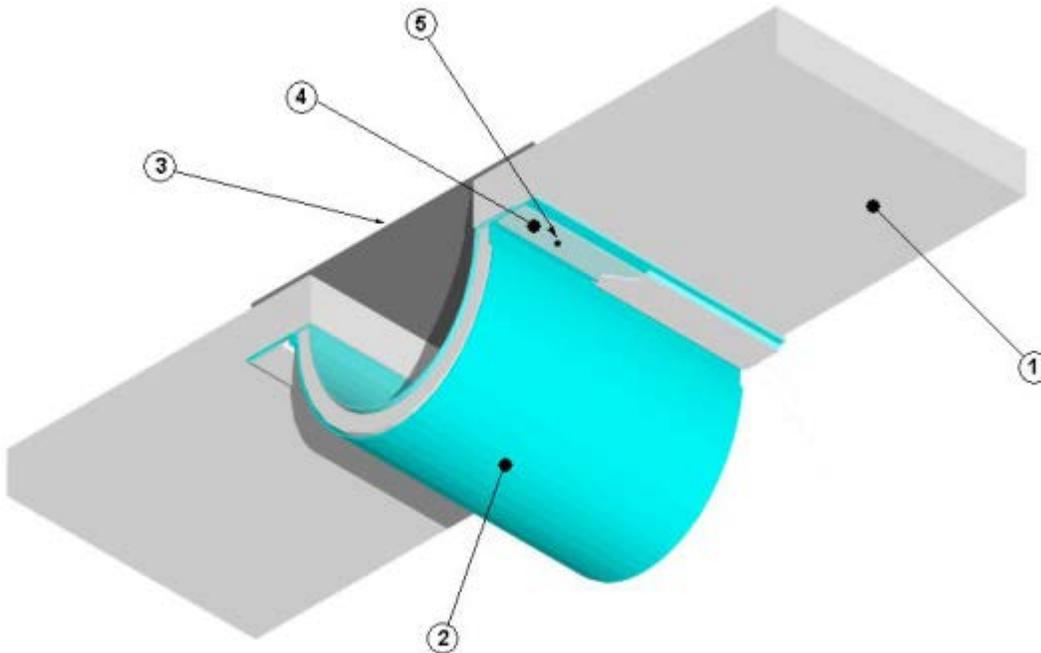

Design Number MM/EJH 180-07
FLOOR EXPANSION JOINT (Horizontal)
MM Systems Corporation
Pyro-Flex®
ASTM E 1966 / UL 2079
3 Hours
UL 2079
L-Rating = 0 SCFM/LF
ASTM E 1399 / ASTM E 1966 / UL 2079
Cycling – Class IV
± 50% Horizontal Movement



1. **CONCRETE FLOOR ASSEMBLY:** Construct a three hour rated concrete floor assembly made from either lightweight or normal weight concrete with a density of 100 - 150 pcf, with a min. thickness of 5-1/2 in. 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 min. thickness of 5-1/2 in. and accommodate depth of blockout formed in the concrete: blockout width unrestricted.

2. **CERTIFIED COMPANY:** MM Systems Corporation

CERTIFIED PRODUCT: Pyro-Flex® Fire Barriers

SERIES: BPF-3048F-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), as applicable. Refer to Table 1 for max. joint widths and corresponding min. joint widths, and movements related to specific model number. Joint treatment's total

movement (contraction + expansion) occurs between the max. joint width and min. joint width. Install joint treatment in accordance with certified company's joint treatment installation instructions.

3. CERTIFIED COMPANY: MM Systems Corporation

CERTIFIED PRODUCT: Metallic and Elastomeric Joint Systems

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 min. thickness of 1/4 in., formed of aluminum, brass, bronze or 24 GA galvanized steel or stainless steel. Or, when required,

use an elastomeric joint seal constructed of Santoprene, EPDM or PVC elastomer with a min. thickness of 1/8 in. Install the metal or elastomeric architectural cover in accordance with certified company's installation instructions.

4. RETAINERS: Use a 2 in. wide 12 GA steel angle with slots that are 5/16 in. wide and 7/16 in. in length inside of round holes to secure joint treatment (Item 2). Install steel angles continuously the full length of the joint on both sides of joint treatment (Item 2).

5. FASTENERS: Use min. 1/4 in. by 2-3/4 in. long concrete fasteners spaced max. 12 in. oc, placed through retainers (Item 4) 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)
BPF-3048F-SC 0.7-0.3	1	0.33	0.67
BPF-3048F-SC 1.3-0.7	2	0.67	1.33
BPF-3048F-SC 2-1	3	1.00	2.00
BPF-3048F-SC 2.7-1.3	4	1.33	2.67
BPF-3048F-SC 3.3-1.7	5	1.67	3.33
BPF-3048F-SC 4-2	6	2.00	4.00
BPF-3048F-SC 4.7-2.3	7	2.33	4.67
BPF-3048F-SC 5.3-2.7	8	2.67	5.33
BPF-3048F-SC 6-3	9	3.00	6.00
BPF-3048F-SC 6.7-3.3	10	3.33	6.67
BPF-3048F-SC 7.3-3.7	11	3.67	7.33
BPF-3048F-SC 8-4	12	4.00	8.00
BPF-3048F-SC 8.7-4.3	13	4.33	8.67
BPF-3048F-SC 9.3-4.7	14	4.67	9.33
BPF-3048F-SC 10-5	15	5.00	10.00
BPF-3048F-SC 10.7-5.3	16	5.33	10.67
BPF-3048F-SC 11.3-5.7	17	5.67	11.33
BPF-3048F-SC 12-6	18	6.00	12.00
BPF-3048F-SC 12.7-6.3	19	6.33	12.67
BPF-3048F-SC 13.3-6.7	20	6.67	13.33
BPF-3048F-SC 14-7	21	7.00	14.00
BPF-3048F-SC 14.7-7.3	22	7.33	14.67
BPF-3048F-SC 15.3-7.7	23	7.67	15.33
BPF-3048F-SC 16-8	24	8.00	16.00
BPF-3048F-SC 16.7-8.3	25	8.33	16.67
BPF-3048F-SC 17.3-8.7	26	8.67	17.33
BPF-3048F-SC 19-9	27	9.00	18.00
BPF-3048F-SC 18.7-9.3	28	9.33	18.67
BPF-3048F-SC 19.3-9.7	29	9.67	19.33
BPF-3048F-SC 20-10	30	10.00	20.00
BPF-3048F-SC 20.7-10.3	31	10.33	20.67
BPF-3048F-SC 21.3-10.7	32	10.67	21.33
BPF-3048F-SC 22-11	33	11.00	22.00

Table 1			
Model Number	W_{max} (inches)	W_{min} (inches)	M (inches)
BPF-3048F-SC 22.7-11.3	34	11.33	22.67
BPF-3048F-SC 23.3-11.7	35	11.67	23.33
BPF-3048F-SC 24-12	36	12.00	24.00
BPF-3048F-SC 24.7-12.3	37	12.33	24.67
BPF-3048F-SC 25.3-12.7	38	12.67	25.33
BPF-3048F-SC 26-13	39	13.00	26.00
BPF-3048F-SC 26.7-13.3	40	13.33	26.67
BPF-3048F-SC 27.3-13.7	41	13.67	27.33
BPF-3048F-SC 28-14	42	14.00	28.00
BPF-3048F-SC 28.7-14.3	43	14.33	28.67
BPF-3048F-SC 29.3-14.7	44	14.67	29.33
BPF-3048F-SC 30-15	45	15.00	30.00
BPF-3048F-SC 30.7-15.3	46	15.33	30.67
BPF-3048F-SC 31.3-15.7	47	15.67	31.33
BPF-3048F-SC 32-16	48	16.00	32.00

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