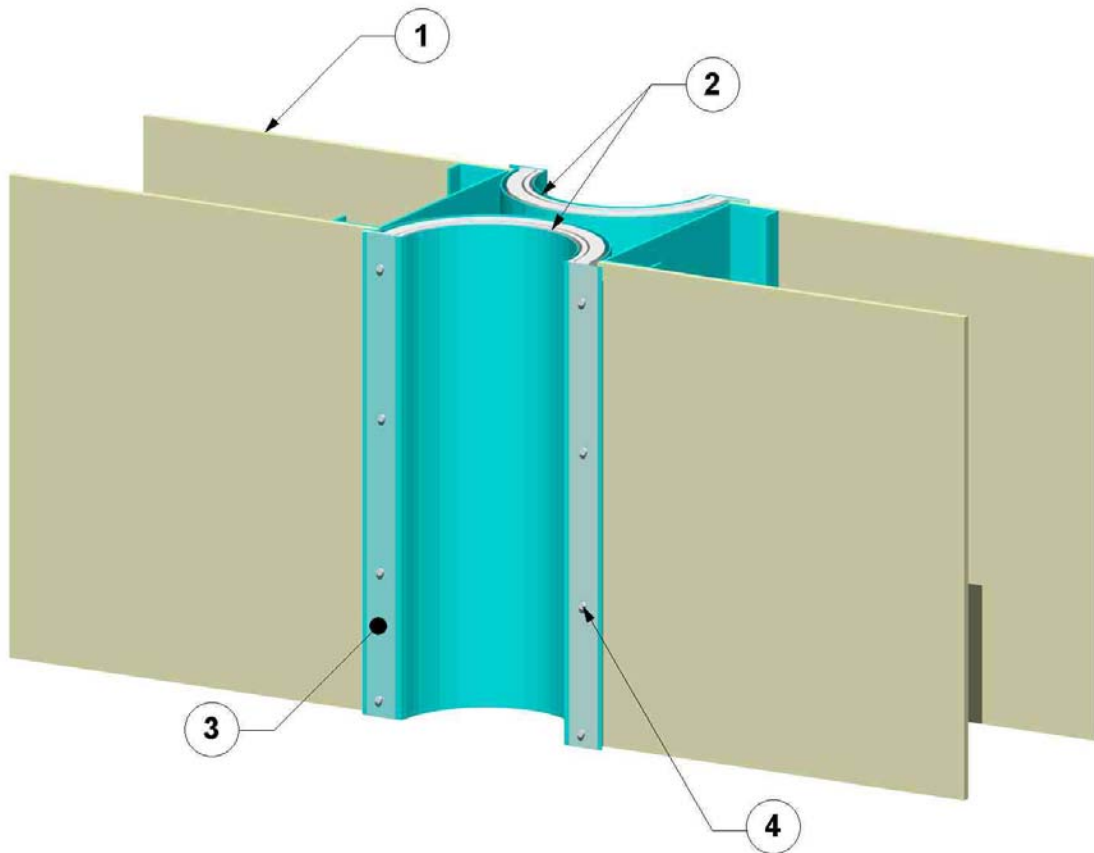

Design Number MM/EJV 60-02
WALL EXPANSION JOINT (Vertical)
MM Systems Corporation
Pyro-Flex®
ASTM E 119 / ASTM E 1966 / UL 2079
1 Hour
UL 2079
L-Rating = 0 SCFM/LF
ASTM E 1399 / ASTM E 1966 / UL 2079
Cycling – Class IV
± 50% Horizontal Movement



1. **GYPSUM WALL ASSEMBLY:** Construct a one-hour-rated wall assembly made of the following: 25-gauge galvanized steel studs measuring 3-1/2 inches wide with 1-1/4-inch legs, spaced 24 inches on center; studs attached with minimum #6 x 3/8-inch-long steel stud framing screws to channel-shaped floor and ceiling runners measuring 1/2 inches deep by 3-1/2 inches wide, which are secured to floor and ceiling with 1-inch-long concrete fasteners spaced maximum 18 inches on

center; studs and runners covered with one layer of 5/8-inch-thick Type X gypsum wallboard on each face; gypsum wallboard fastened to steel studs with #6 x 1-1/8-inch-long bugle-head phillips drywall screws spaced 12 inches on center; joint tape and compound - vinyl or casein, dry or premixed joint compound applied to face of gypsum wallboard in two coats to all exposed screw heads and gypsum wallboard joints; minimum 2-inch-wide paper, plastic or fiberglass tape embedded

in first layer of compound over joints in gypsum wallboard; and, minimum expansion joint depth of 4-3/4 inches created from exterior face of gypsum wallboard. The joint faces may be covered with one or two layers of gypsum wallboard or uncovered with exposed steel stud face flush with gypsum wallboard as shown.

2. Certified Manufacturer: MM Systems Corporation
Certified Product: Pyro-Flex® Fire Barriers
SERIES: PF-1018CW-SC Series

JOINT TREATMENT: Construct a fire barrier composed of layered fabric or metallic sheets and fibrous components mechanically attached to the gypsum wall assembly (Item 1). Secure the joint treatment to the steel studs of the gypsum wall assembly (Item 1) using fasteners

(Item 4). 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 installation instructions.

3. **STEEL SUPPORT:** Use a 1-inch-wide minimum 24-gauge steel tack strip of either a flat or a formed shape to secure joint treatment (Item 2). Install tack strips continuously the full length of the joint on both sides of joint treatment (Item 2).
4. **FASTENERS:** Use minimum 1-inch-long #6 drywall screws spaced at maximum 8 inches on center to secure the steel support (Item 3) and the joint treatment (Item 4) to the steel studs of the gypsum wall assembly (Item 1).

Table 1			
Model Number	W_{max} (inches)	W_{min} (inches)	M (inches)
PF-1018CW-SC 1-1	2.0	0.875	1.125
PF-1018CW-SC 2-1	3.0	1.0	2.0
PF-1018CW-SC 2-2	4.0	2.0	2.0
PF-1018CW-SC 3-1.5	4.5	1.5	3.0
PF-1018CW-SC 3-3	6.0	3.0	3.0
PF-1018CW-SC 4-2	6.0	2.0	4.0
PF-1018CW-SC 4-4	8.0	4.0	5.0
PF-1018CW-SC 5-2.5	7.5	2.5	5.0
PF-1018CW-SC 5-5	10.0	5.0	5.0
PF-1018CW-SC 6-3	9.0	3.0	6.0
PF-1018CW-SC 6-6	12.0	6.0	6.0
PF-1018CW-SC 7-3.5	10.5	3.5	7.0
PF-1018CW-SC 7-7	14.0	7.0	7.0
PF-1018CW-SC 8-4	12.0	4.0	8.0
PF-1018CW-SC 8-8	16.0	8.0	8.0
PF-1018CW-SC 9-4.5	13.5	4.5	9.0
PF-1018CW-SC 9-9	18.0	9.0	9.0
PF-1018CW-SC 10-5	15.0	5.0	10.0
PF-1018CW-SC 11-5.5	16.5	5.5	11.0
PF-1018CW-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} .