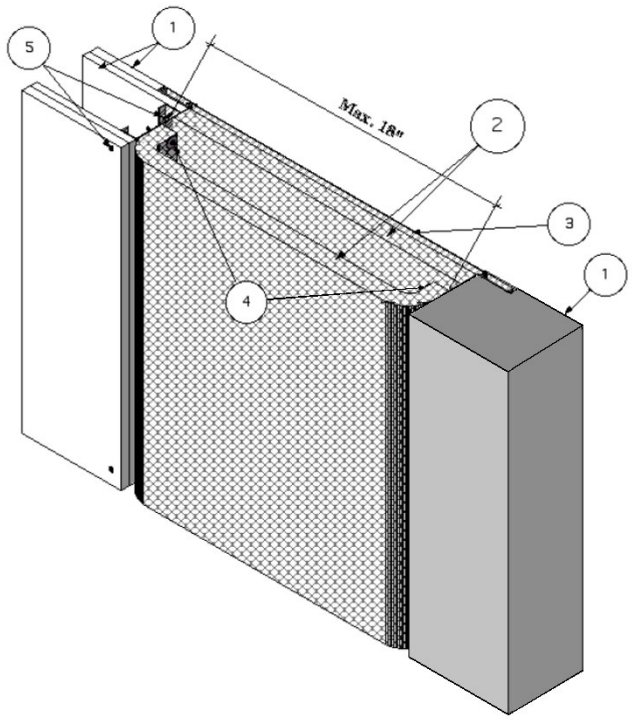
MM SYSYTEMS OPCO LLC
Design No. MM/EJV 120-08
(Formerly CEJ 107W)
Fire Resistive Joint System
Pyro-Flex® PF-2018CW
ASTM E1966, UL 2079
Rating: 2 Hour
UL 2079
L-Rating: less than 1 SCFM/LF



Installation in Gypsum/Steel Stud Wall or Concrete Wall Construction

1. **WALL ASSEMBLY:** Use a two-hour rated wall assembly constructed from one of the options or a combination of the options listed below:

    - Concrete Wall Assembly: Lightweight or normal weight reinforced concrete with a density of 100-150 pcf, with a minimum depth of 6 in. at the joint face. Overall wall depth may vary to accommodate blockout depth formed in the concrete to house the architectural cover plate. The blockout width may also vary without restriction.

    - Gypsum and Steel Stud Wall Assembly: 25 GA galvanized steel studs spaced 24 in. on center (oc), measuring 3-5/8 in. wide with 1-1/4 in. legs. Studs attached with minimum #6 × 3/8 in. long steel stud framing screws to channel shaped floor and ceiling runners measuring 1/2 in. deep × 3-5/8 in. wide, which are secured to floor and

ceiling with 1 in. long concrete fasteners spaced maximum 18 in. oc. Studs and runners covered with two layers of 5/8 in. thick, Type X gypsum wallboard on each face. The base layer of gypsum wallboard fastened to steel studs with #6, 1-1/8 in. long bugle-head Phillips drywall screws spaced 12 in. oc. The face layer of gypsum wallboard fastened with #6, 1-5/8 in. long bugle-head Phillips drywall screws spaced 8 in. oc.

Joint Tape and Compound – Vinyl or casein, dry or premixed joint compound applied to face layers of gypsum wallboard in two coats to all exposed screw heads and gypsum wallboard joints. A minimum of 2 in. wide paper, plastic, or fiberglass tape embedded in first layer of compound over joints in gypsum wallboard. A minimum joint depth of 6 in. created from face layer of gypsum wallboard to face layer of gypsum wallboard. The joint faces may be covered as shown with one or two layers of gypsum wallboard or uncovered with exposed steel stud face flush with gypsum wallboard.

2. **JOINT TREATMENT:** Expansion Control, Fire Resistive Joint System

   CERTIFIED PRODUCT: MM Systems OPCO LLC, Pyro-Flex® PF-2018CW Series

   The joint treatment is composed of mechanical components attached to the existing field construction. Fasteners secure the joint treatment to the steel studs or concrete wall assembly. The maximum joint width is 18 in. Design tested and illustrated at maximum joint width. Nominal joint width illustration (installed configuration) may differ. Joint treatment shall be installed in accordance with Listed Manufacturer's installation instructions.

3. **ARCHITECTURAL COVER PLATE**: Min. thickness 0.030 in. architectural cover plate extruded or formed of aluminum, brass, bronze, galvanized steel or stainless steel. This design requires an architectural cover plate. Architectural cover plate shall be installed in accordance with Listed Manufacturer's installation instructions.

4. **STEEL SUPPORT**: Continuous 1 in. wide, minimum 24 GA steel tack strip. The tack strip may be either a flat or a formed shape. Tack strips must run the full length of the joint.

5. **FASTENERS:** Use minimum #6 × 2 in. long drywall screws at maximum 8 in. oc, to secure steel support over joint treatment to the steel studs of the gypsum wall assembly. Use minimum 3/16 in. diameter by minimum 2-in. long concrete screws, at maximum 8 in. oc, to secure steel support over joint treatment to concrete wall assembly.

Consult the listing report on the Directory of Building Products (https://bpdirectory.intertek.com) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.