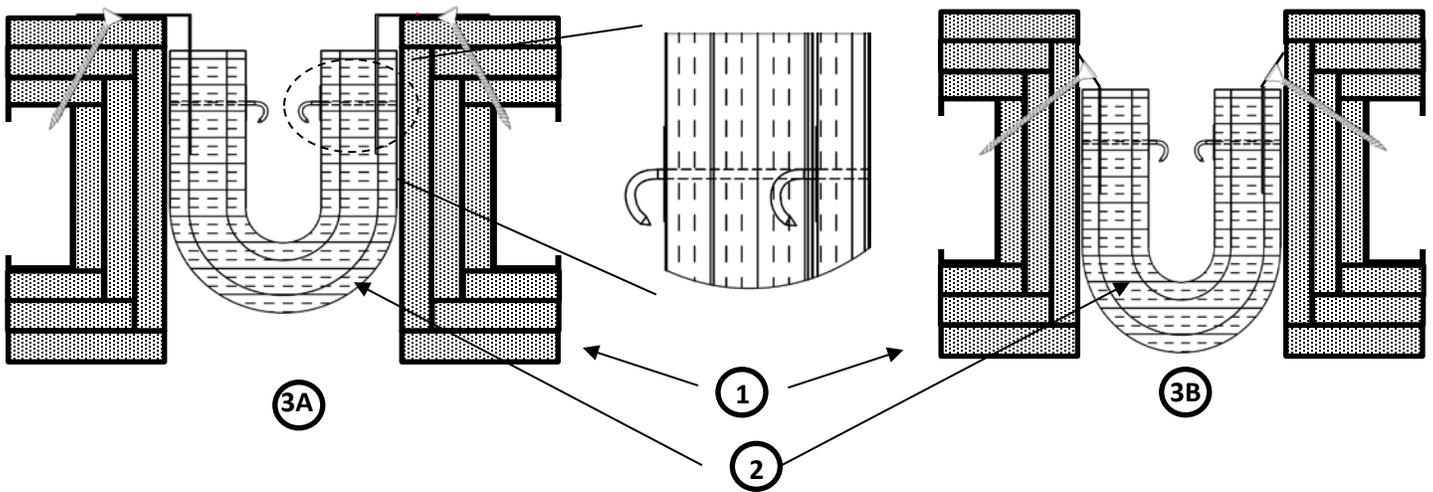


InPro Corporation
Design No. INC/EJCA 180-01
Wall Joint System
Fireline F520
UL 2079, CAN/ULC S115-11
Rating: 3 Hour
ASTM E1399
Cycling – Class IV



1. **SUPPORTING CONSTRUCTION:** 3-hour rated gypsum wall assembly made from minimum three layers of 5/8 in. thick, type X gypsum board, fastened to each side of minimum 25 GA steel studs in accordance with the listed fire rated design. Gypsum board must be present in the throat of the joint as shown in Figure above.
2. **Wall Joint Assemblies:** A nominal 6.67 in. or 20 in. joint width, pre-fabricated system composed of a rigid metallic architectural joint system and a flexible U-shaped fire barrier. Attach mechanical components to the gypsum wall assembly (Item 1). Max. joint opening ranges are 12 in. and 36 in., respectively, per Table above.

CERTIFIED PRODUCT: Fireline F520 Top Mount Wall Joint System Series

CERTIFIED MODEL (See Table):

- Example: FL80-3TM-6WL

F520 Part Number Example/Explanation:
FL80 or FL (Brand/Product Name);
3 (Hourly Rating);
TM or IM (Flange Type – Top Mount or Inside Mount);
6 through 24 (Nominal Joint Width, see table);
WL (Condition – Wall to Wall)

The top mount wall joint system is attached to the gypsum wall surface on each side of

A. **CERTIFIED MANUFACTURER:** InPro Corporation



the joint of the wall assembly using mechanical fasteners (Item 4). The inside mount wall joint system is attached to the inside vertical faces on each side of the joint of the wall joint opening using mechanical fasteners (Item 4). When required, overlap male and female ends to form a splice in the joint with a 12 in. overlap as specified in the manufacturer's installation instructions.

RESTRICTED FIRE EXPOSURE CONDITION:

The fire resistance rating only applies to fire exposure from the side opposite of the Mounting (Item 3) flanges and Cover Plate (Item 2B). This restriction does not apply to chase wall conditions (Item 2C).

- B. **COVER PLATE – (NOT SHOWN):** Width of cover plate varies with joint width and shall overlap the full joint system including mounting flanges by a minimum 3 in. Thickness of cover plate shall be not less than 1/8 in. thick for carbon steel or stainless steel; not less than 1/4 in. thick for aluminum alloy; not less than 3/16 in. thick for bronze; and, fastened on both sides of the joint opening, 12 in. on center (oc). with mechanical fasteners (Item 4) and washers.
- C. **CHASE WALL CONDITION – (NOT SHOWN):** In conditions where the linear opening is enclosed within a 3-hr fire resistance rated chase wall, as an alternate to the cover plate (Item 2B), use a joint cover consisting of 2 mil stainless steel foil secured to the supporting construction (Item 1) framing on both sides of the joint with minimum 1-in. wide, minimum 20 GA galvanized steel straps and minimum #10 × 2-1/2 in. long truss-head screws spaced maximum 12 in. oc.

3. **MOUNTING:** Fasten the joints to the studs in the gypsum wall using the integral 5 in. × 3 in. 16 GA galvanized or non-galvanized steel expanded metal flanges. Use mechanical fasteners (Item 4) spaced 12 in. oc.

- A. Top Mount
- B. Inside Mount

4. **FASTENERS (NOT SHOWN):** Use 410 stainless steel 10 × 2-1/2 in., flathead, self-drilling screws placed 12 in. oc. Screw through the top flange of the Top Mount and through the inside flange of the Inside Mount to attach the different systems to the walls.

ASTM E1399 Cycling:

Class IV Cycling (4-in. min. to 12-in. max. and 8-in. min. to 36-in. max., respectively)



Model Number	Blanket Layers	Nominal Joint Size	Joint Width Cycling Range
FL80-3TM-6WL FL80-3IM-6WL	3×1-in.; 1×1/2-in. (Shown)	6 in.	4 in. – 12 in.
FL-3TM-6WL FL-3IM-6WL			
FL80-3TM-8WL FL80-3IM-8WL	4×1-in.; 1×1/2-in.	8 in.	8 in. – 14.4 in.
FL-3TM-8WL FL-3IM-8WL	3×1-in.; 1×1/2-in. (Shown)	8 in.	4 in. – 12 in.
FL80-3TM-10WL FL80-3IM-10WL	4×1-in.; 1×1/2-in.	10 in.	8 in. – 18 in.
FL-3TM-10WL FL-3IM-10WL	4×1-in.; 1×1/2-in.	10 in.	8 in. – 15 in.
FL80-3TM-12WL FL80-3IM-12WL	4×1-in.; 1×1/2-in.	12 in.	8 in. – 21.6 in.
FL-3TM-12WL FL-3IM-12WL	4×1-in.; 1×1/2-in.	12 in.	8 in. – 18 in.
FL80-3TM-14WL FL80-3IM-14WL	4×1-in.; 1×1/2-in.	14 in.	8 in. – 25.2 in.
FL-3TM-14WL FL-3IM-14WL	4×1-in.; 1×1/2-in.	14 in.	8 in. – 21 in.
FL80-3TM-16WL FL80-3IM-16WL	4×1-in.; 1×1/2-in.	16 in.	8 in. – 29 in.
FL-3TM-16WL FL-3IM-16WL	4×1-in.; 1×1/2-in.	16 in.	8 in. – 24 in.
FL80-3TM-18WL FL80-3IM-18WL	4×1-in.; 1×1/2-in.	18 in.	8 in. – 32.4 in.
FL-3TM-18WL FL-3IM-18WL	4×1-in.; 1×1/2-in.	18 in.	8 in. – 27 in.
FL80-3TM-20WL FL80-3IM-20WL	4×1-in.; 1×1/2-in.	20 in.	8 in. – 36 in.
FL-3TM-20WL FL-3IM-20WL	4×1-in.; 1×1/2-in.	20 in.	8 in. – 30 in.
FL-3TM-22WL FL-3IM-22WL	4×1-in.; 1×1/2-in.	22 in.	8 in. – 33 in.
FL-3TM-24WL FL-3IM-24WL	4×1-in.; 1×1/2-in.	24 in.	8 in. – 36 in.