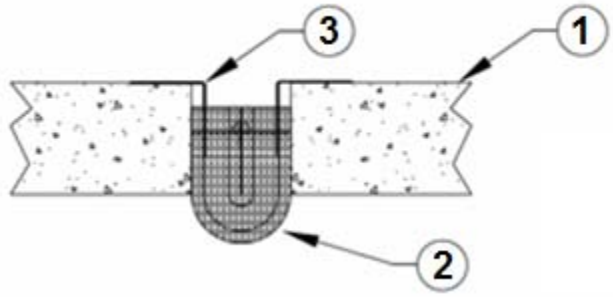
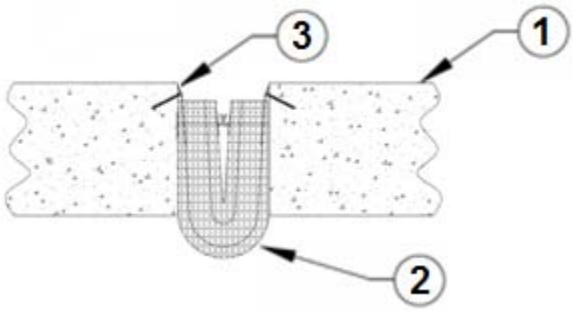
InPro Corporation
Design No. INC/EJCA 120-01
Floor Joint System
Fireline F520 (Nominal Joint 4 thru 10 in.)
UL 2079, CAN/ULC S115-11
Rating: 2 Hour
ASTM E1399
Cycling – Class IV
80 % Horizontal Movement (50% Horizontal Movement also Acceptable)



Top Mount (A)



Inside Mount (B)

Blanket Layers	Nominal Joint Size	80% Max Opening
3	4 to 10 in.	7-1/4 to 18 in.

1. **SUPPORTING CONSTRUCTION:** 2 hour rated solid concrete floor assembly made from either lightweight or normal weight concrete with a density of 100-150 pcf, with a min. thickness of 4-1/2 in. at the joint face under the cover (Item 2A). Overall slab thickness may increase to accommodate various block out depths (longitudinal recesses) formed in the concrete, to house the cover (Item 2A). The block out width may also vary without restriction.

2. **FLOOR JOINT SYSTEM:** A 10 in. nominal 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 concrete floor assembly.

A. **CERTIFIED MANUFACTURER:** InPro Corporation

CERTIFIED PRODUCT: Fireline F520 Top Mount Floor Joint System Series

CERTIFIED MODEL: F520-2TM-10FL and F520-2IM-10FL (three layers of ceramic blanket) 10 in. nominal joint tested at max. opening of 18 in.

F520 Part Number Example/Explanation:
F520 (Brand/Product Name);
2 (Hourly Rating);
TM or IM (Flange Type - **T**op **M**ount or **I**nside **M**ount);
10 (Nominal Joint Width);
FL (Condition – **Fl**oor to **Fl**oor)

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

B. COVER PLATE – (Not Shown) Width of cover plate shall overlap the supporting construction (Item 1) a min. of 3 in. at max. joint width. Thickness of cover plate shall be not less than 1/8 in. thick carbon steel or stainless steel and fastened on at least one side, 18 in. oc. with min. 1/4 in. nominal diameter, min. 1-3/4 in. long concrete screws.

C CHASE WALL CONDITION – (Not Shown) In conditions where the linear opening is enclosed within a 2 hour 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) on both sides of the joint with min. nominal 3/8 in. diameter, min. 2-1/4 in. long, concrete anchoring screws and flat washers spaced nominally 12 in. on center (oc).

3. MOUNTING FLANGES: Fasten the joints to the concrete using the integral 3 in. x 3 in. 16 GA galvanized or non-galvanized steel expanded metal flanges. Use mechanical fasteners (Item 4).

A. Top Mount
B. Inside Mount

4. FASTENERS: (Not Shown) Use nominal 1/4 in. diameter, min. 1-3/4 in. long, concrete anchoring screws spaced nominally 12 in. on center (oc).

5. FILL, VOID, OR CAVITY MATERIAL: (Not Shown) Use only materials bearing an Intertek certified product label and meeting the following min. requirements.

ASTM E1399 Cycling:
Class IV Cycling at 80%