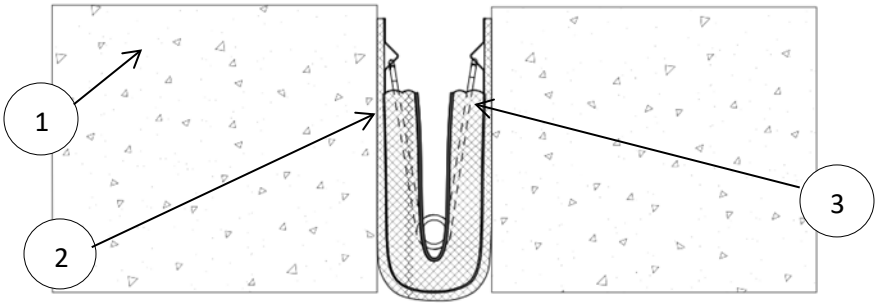
InPro Corporation
Design No. INC/EJCA 120-03
Floor Joint System
Fireline F140 (2 in. Series)
UL 2079, CAN/ULC S115-11
Rating: 2-1/2 Hour
ASTM E1399
Cycling – Class IV
50 % Movement



Design	Nominal Joint Size	Min. to Max. Opening
2 in.	2	1 to 3 in.

Table 1. Joint Size

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. Overall slab thickness may increase to accommodate various block out depths (longitudinal recesses) formed in the concrete, to house the cover. The block out width may also vary without restriction.

2. **FLOOR JOINT ASSEMBLY:** A 2 in. nominal joint width, prefabricated system composed of a rigid metallic architectural joint system and a flexible U-shaped fire barrier. Attach mechanical components to the concrete floor assembly. Max. joint opening range is 3 in.

   A. **CERTIFIED MANUFACTURER:** InPro Corporation

CERTIFIED PRODUCT: Fireline F140 Inside Mount Floor Joint System Series

CERTIFIED MODEL: F140-2IM-2FL; 2 in. nominal joint tested at max. opening of 3 in.

F140 Part Number Example/Explanation:
F140 (Brand/Product Name);
2 (Hourly Rating);
IM (Flange Type – Inside Mount);
2 (Nominal Joint Width);
FL (Condition – Floor to Floor)

The inside mount floor joint system is attached to the concrete surface on each side of the joint opening in the floor assembly with spring mechanism spaced nominally 24 in. on center (oc).

B. COVER PLATE – (Not Shown) Width of cover plate shall overlap the supporting construction (Item 1) a minimum of 3 in. at maximum joint width. Thickness of cover plate shall be not less than 1/8 in. thick for carbon steel or stainless steel, and fastened on at least one side, 18 in. oc. with minimum 3/8 in. nominal diameter, minimum 2-1/4 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 supplied 1/8-in. thick by 1-in. wide aluminum termination bar and nominal 1/4-in. diameter concrete screws spaced maximum 12-in. oc.

3. MOUNTING SYSTEM: Spring System, inside mount. No fasteners required.

ASTM E1399 Cycling:
Class IV Cycling at 50 %

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.