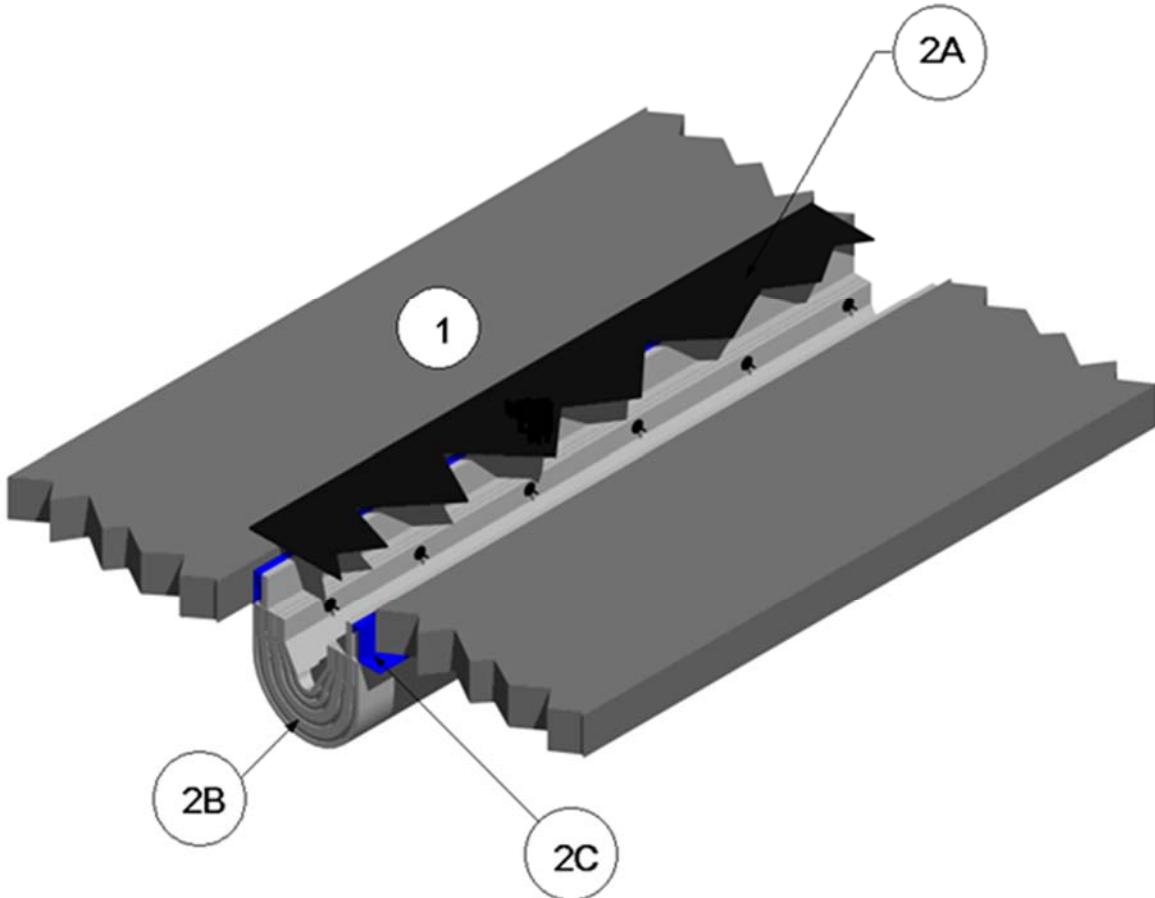


InPro Corporation
Design No. INC/JF 120-02
Fireline 520 Water Guard Series with Optional Drain Tube Floor Assembly
Bottom Mount 2 in. thru 32.5 in. (4.5 in. Slab)
UL 2079, ASTM E1966
Fire Resistance Rating: 2 Hr
ASTM E1399 Cycling – Class IV
Optional Air Leakage Rating: 10.5 cfm



1. CONCRETE FLOOR ASSEMBLY: While conforming to the fire resistance rating requirements, the overall slab thickness may vary to accommodate various blockout depths (longitudinal recesses) formed in the concrete, to house the architectural joint system, or to conform to the requirements relative to the fire barrier thickness and joint width in accordance with certified product's installation instructions. Blockout width may vary without restriction.

A. For 2 hour fire resistance rating: Minimum 2 hour fire rated concrete floor assembly made from either lightweight or normal weight concrete with a nominal density of 100-150 pcf and 3000 psi compressive strength. Maintain a min. concrete thickness of 4-1/2 in. at the joint face.

2. JOINT TREATMENT: A 27-1/2 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 (ITEM 1).

A. METALLIC SYSTEM - Thickness of cover plate varies with joint width and load requirements but not less than a min. 1/4 in. extruded or formed of aluminum, brass, bronze, or steel cover plate. Install per manufacturer's instructions.

B. CERTIFIED MANUFACTURER: InPro Corporation

CERTIFIED PRODUCT: Fire-Resistant Joint System

MODEL: Fireline 520 Water Guard series with optional drain tube floor assembly, bottom mount 2 in. thru 32-1/2 in. (4-1/2 in. Slab)

FIRE BARRIER - A min. 3-1/2 in. thick, layered, 8 pcf packing material with thin cloth and metal foil support layers with fill, void or cavity material when required.

C. MOUNTING - Use a min. 18 GA galvanized steel retainer formed of two 90-degree extrusions that are spot welded together.

The retainer has a 1 in. lip that is used to hold the mounting tool during installation. The retainer is to overlap min. 3 in. onto the fire barrier and 4 in. to the bottom of the adjacent concrete floor assembly (Item 1) and be attached from the underside with fasteners (Item 2D).

D. FASTENERS - (Not Shown) Use nominal 1/4 in. diameter, min. 1-1/2 in. long self-tapping, hex head concrete anchoring screws with zinc washers, spaced max. 12 in. on center (oc).

E. FILL, VOID OR CAVITY MATERIAL - (Not Shown) Use only materials bearing an Intertek Certified Product Label and meeting the following min. requirements. Apply 1/4 in. beads of intumescent firestop sealant at splice per listed manufacturer's instructions.

ASTM E 1399 Cycling:

Nominal joint width (W_{nom}): 27 1/2 in. Min. joint width (W_{min}): 2 in., joint treatment may not be installable at this joint width. Max. joint width (W_{max}): 32 in. Movement capability (M): 2 in., Contraction (C_p): -85.45%, Expansion (E_p): 16.36%.

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.