

Design No. HI/BPF 120-12

Perimeter Fire Barrier System

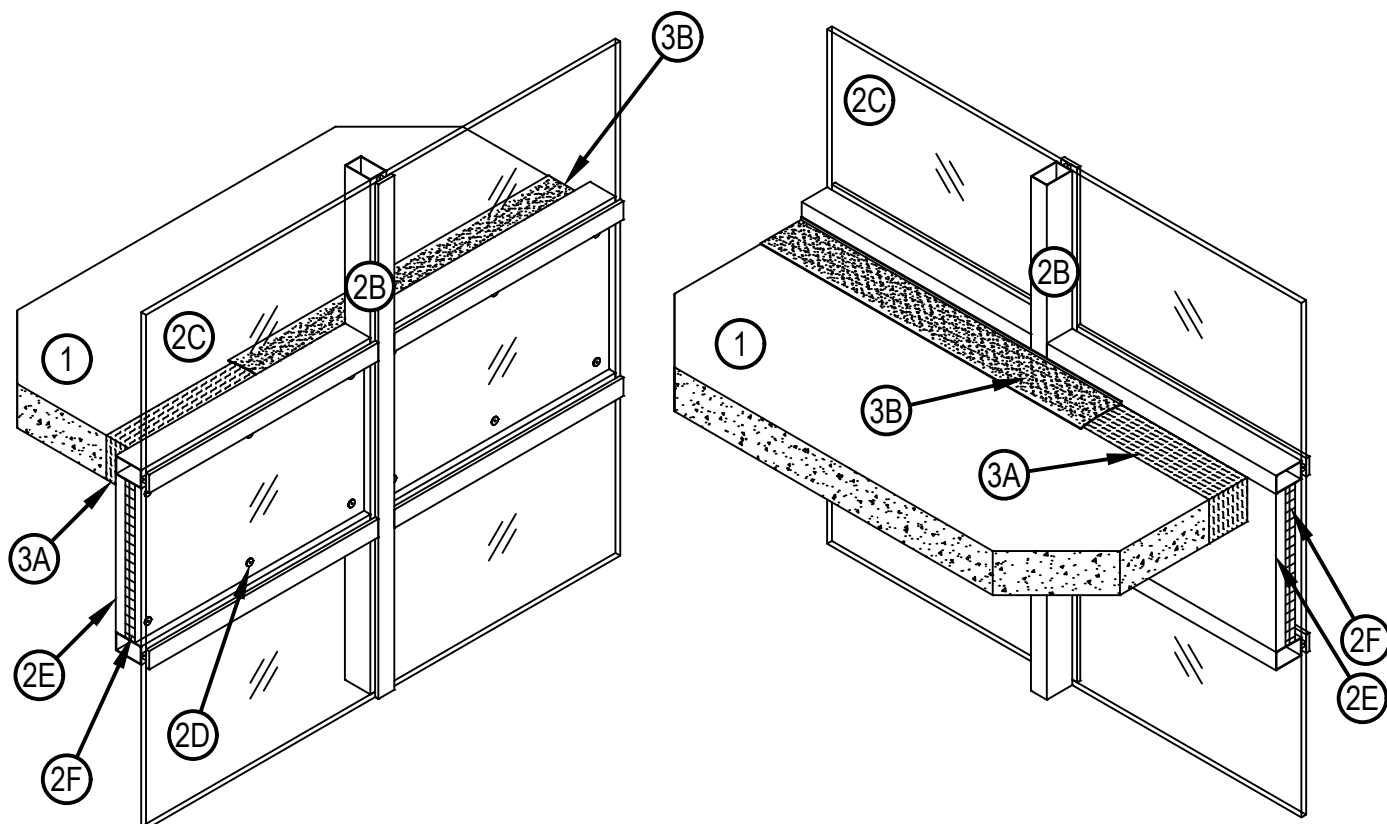
Firestop Joint Spray

ASTM E 2307

***This document is only to be used unaltered and in its entirety.**

Table 1.

	Firestop Joint Spray CFS-SP WB	Firestop Joint Spray CFS-SP SIL
F-Rating	2 Hour	2 Hour
T-Rating	1 Hour	1 Hour
Application Thickness	1/8 in. wet film (1/16 in. dry)	2 mm (0.079) wet film
Cycling Type IV*		
Horizontal	± 12.5%	± 12.5%
Vertical	± 12.5%	± 12.5%
L-Rating**	< 1.0 SCFM/LF	< 1.0 SCFM/LF



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1. CONCRETE FLOOR ASSEMBLY: 2 hour rated concrete floor assembly made from either lightweight or normal weight concrete with a density of 100 to 150 pcf, having a min. thickness of 6 in. at the joint face. When a longitudinal recess (blockout) is required to contain an architectural joint system, increase concrete floor assembly thickness to maintain a min. thickness of 6 in. and accommodate depth of blockout formed in the concrete: blockout width unrestricted.
2. CURTAIN WALL ASSEMBLY: The curtain wall assembly shall incorporate the following construction features:
 - A. Mounting Attached (Not Shown) - Attach aluminum framing (Item 2B) to the structural framing according to the curtain wall manufacturer's instructions. Connect the mounting attachments to the joint face of the concrete floor assembly (Item 1) according to the curtain wall manufacturer's instructions.
 - B. Aluminum FRAMING - Size rectangular aluminum tubing mullions and transoms according to the curtain wall system manufacturer's guidelines. Min. overall dimensions of framing required is 0.100 in. thick aluminum with a min. 3-3/4 in. width of the extrusion. Mullion and transom covers are added to the external side of the framing, giving the framing system a total mullion depth of nominally 5-1/4 in. (with cover plate). Mullions are to be spaced a min. 60 in. on center (oc) and spandrel transoms are to be spaced a min. 19 in. oc. Locate the upper transom such that the bottom surface of the transom is at the same height as the top surface of the floor assembly.
 - C. GLASS PANELS - Size and install glass panels to curtain wall framing according to the curtain wall system manufacturer's guidelines. Use min. 1/4 in. thick cleat, heat-strengthened (HS) glass with a max. width and height less than the aluminum framing oc spacing, which allows the glass to be secured between the notched shoulder of the aluminum framing and pressure bar. Secure panels with a thermal break (rubber extrusion), pressure bar (aluminum extrusion), min. 1/4-20 x 5/8 in. long screws, and a snap face (aluminum extrusion).
 - D. IMPALING PINS - Size and install min. 12 GA steel pins a min. 1/2 in. longer than the thickness of the curtain wall insulation. Attach pins to the back pan (Item 2E) in two rows at 12 in oc.
 - E. BACK PAN - Mount a steel back pan (min. 22 GA.) with 1-1/2 in. lip flush with the interior face of the framing, and screw attached to the framing along top and sides with 1/2 in. long No. 10 self-drilling screws at 8 in. oc. Apply pressure sensitive aluminum foil faced tape around the periphery of the back-pan sealing to the adjacent aluminum framing.
 - F. CURTAIN WALL INSULATION - Install nominal 3 in. thick 8 pcf density mineral wool batt insulation. Secure with impaling pins (Item 2D) and steel clinch shields.
3. PERIMETER JOINT PROTECTION: The perimeter joint (linear opening) is not to exceed nominal 4 in. joint width (joint width at installation). Incorporate the following construction features:
 - A. PACKING MATERIAL - Install 6 in. thick Thermafiber Safing (4pcf) packed into the width of the joint flush with the top surface of the floor at 25% compression. Strips installed so that the factory compressed layers of the safing are parallel to the horizontal face of the slab edge.
 - B. CERTIFIED MANUFACTURER: Hilti Corporation
CERTIFIED PRODUCT: Firestop Joint Spray CFS-SP WB or Silicone Joint Spray CFS-SP SIL
FILL, VOID, OR CAVITY MATERIAL - Apply over the packing material (Item 3A) as discussed below.

Apply at the thickness specified in Table 1 and overlap the material 1/2 in. onto the adjacent curtain wall assembly and concrete floor slab assembly. When the spraying process is stopped and the applied liquid cures to an elastomeric film before application is restarted, overlap the edge of the cured material at least 1/8 in. with the spray. Reference Product Section of the Intertek Directory for more details on the Listed product.

* Before testing, the test specimen was subjected to $\pm 12.5\%$ vertical and $\pm 12.5\%$ horizontal (± 0.5 in. vertical and ± 0.5 in horizontal) movement through a min. of 100 times at 30 cpm, followed by a min. of 400 cycles at 10 cpm for both vertical and horizontal cycling.

** UL 2079