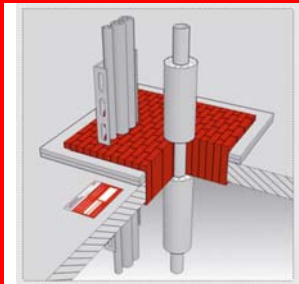
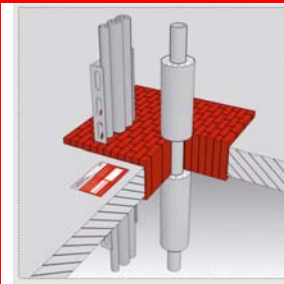
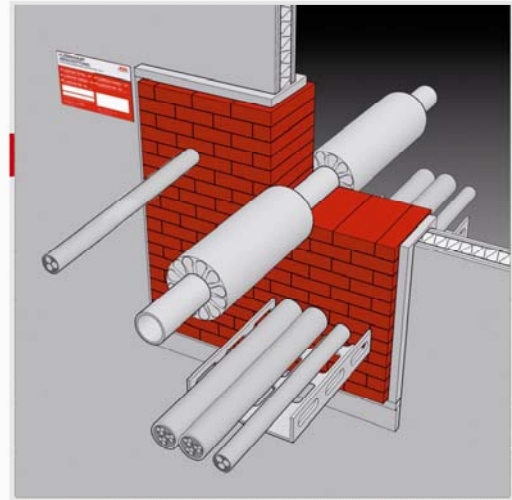


# FPT FLAMMADUR® PU- FIRE BLOCKS

## Intumescent Flexible Polyurethane Foam Blocks

- Made from Flammadur® F 600 Foam
- Blocks: 8" x 5" x 2" (203 mm x 127 mm x 50.8 mm )
- Easily cut with a knife
- Quick Installation, operational immediately after installation
- Application temperature: 23 °F to 104 °F (-5 °C to 40 °C )
- Temperature resistance : 5 °F to 140 °F (-15 °C to 60 °C)
- F = 2, 3, 4 hour, T = 0 to 3 hour
- Fire and Smoke Resistant
- For blank openings, multiple penetrants, insulated and non-insulated metallic pipes, combustible pipes, cables, cables in trays and cables in racks
- For concrete, porous concrete, masonry and gypsum walls
- Easy to remove and to re-enter
- No damming in floors needed
- Density: 0.23 to 0.26 g/cm<sup>3</sup> (14.3 to 16.3 pcf )
- Expansion Ratio (unrestricted : up to 1:5 )
- Intumescent activation): 300 °C (572 °F )
- Rust color, can be painted
- Free of Dust, Fibers, Asbestos, Halogens, Lead, Solvents
- Not for use outdoors where it is exposed to the weather or UV radiation, or in wet rooms unless the surface is covered with a silicone coating

Manufactured by AIK Flammadur Brandschutz, GmbH in Germany, under an exclusive distribution license to FPT in America



### INSTALLATION

- For openings without penetrants, cut the blocks and pack them firmly into the opening to fill it completely. Flammadur® A109 or Flammadur® F200, intumescent sealant, is to be forced between blocks and the periphery of the opening to the maximum extend possible on both surfaces of wall, or floor.
- Single cables can be installed through joints between blocks, or a hole made through the block
- Cable bundle can be installed through the block
- For openings with metallic pipes, insulate them on the outside of blocks by covering with: nom 1.5 inch thick hollow cylindrical heavy density (3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners applied self-sealing large tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. See also UL listed Pipe and Equipment Covering Materials (BRGU category).
- Cut the blocks with a knife and pack them firmly into the opening and around the penetrants to fill it completely.
- Fill all gaps, and spaces with Flammadur® A109 or Flammadur® F200 which is to be forced into interstices of cables, between cables and cable tray and in obvious openings between blocks and between blocks and the periphery of the opening to the maximum extend possible on both surfaces of wall, or floor.
- For openings with combustible pipes: for pipes, with an outside diameter of 3.5 inch (89 mm) or smaller, insert through the blocks and for larger pipes insert a metallic sleeve large enough to accommodate the combustible pipe, cover both ends of the pipe with a certified intumescent wrap, and insert the pipe into the metallic sleeve.

**To get a higher T ratings** (based on UL Systems CAJ4068, CBJ 3008 and CBJ 40100):

Apply Flammadur® E424, a paint like, heat absorbing, cable coating, to a dry depth of 1/8” (3.2 mm) from the fire block’s external surface outward a minimum of 15 inches (38 cm) on both sides of the penetration.

When the annular space to the periphery exceeds 4 inches (102 cm), use one of the following methods:

1. **Wire Mesh:** a nominal 2 sq. inch wire fencing should be used to secure the blocks. The wire fencing, made of 16 SWG (0.060”) galvanized steel wire, is cut to fit the contour of the penetrating item and to extend a minimum of 3” beyond the periphery of the opening, and is secured to both surfaces of the wall assembly using ¼” diameter by 4- 3/16” long hollow wall anchors and ¼” by 1.5” diameter fender washers spaced at a maximum spacing of 8” O.C.
2. **Set of Single Wires:** install screws (¼” diameter by 4- 3/16” long) along the periphery of the opening, string single wires, 16 SWG (0.060”) galvanized steel, from screw to screw across the needed opening to form a grid or web, if not uniformly spaced, that covers all the blocks beyond a distance of 3” from the periphery. The spaces between the wires forming the grid or web should be smaller than the dimensions of the block face, thereby securing the blocks against displacement during the hose stream test, or other times.
3. **Adhering Blocks:** the space between affected blocks can be covered to a depth of 1 inch (2.5 cm) and height of few mm using Flammadur® A109 or Flammadur® F200, intumescent sealant.

**Products and Technical Assistance available from**

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