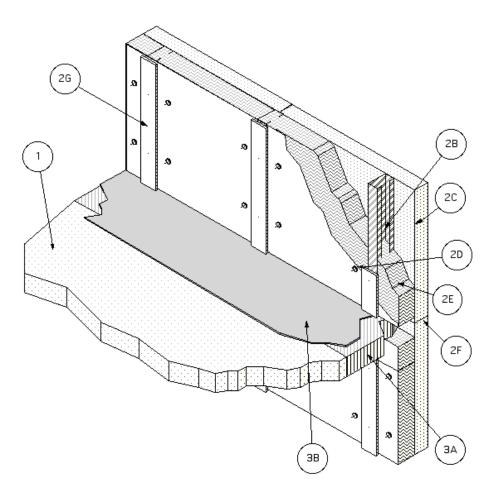
Design No. TL/JS 120-02 Design No. CEJ 217 P

PERIMETER FIRE BARRIER SYSTEM

T-Rating - 3/4 hr.
F-Rating - 2 hr.
L-Rating NA
Rated for ± 10 % movement



- 1. CONCRETE FLOOR ASSEMBLY: Two-hour rated 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. Overall slab thickness may vary to accommodate various blockout depths (longitudinal recesses) formed in the concrete, to house the architectural cover plate. The blockout width may also vary without restriction.
- 2. CURTAIN WALL ASSEMBLY: The concrete curtain wall assembly shall incorporate the following construction features:
 - A. Mounting Attachment: (Not shown)
 Attachment of the curtain wall
 framing to the structural framing
 shall be according to the curtain
 wall manufacturer's instructions. If
 required, mounting attachments to
 the floor slab shall be connected to
 the joint face of the floor slab. Max.

- distance between mounting attachments shall be 10 feet.
- B. Steel-Stud Framing: Vertical framing members shall be a min. 3-5/8 in. by 1-5/8 in., 18 GA steel "C" Attachment shall according to the curtain wall system manufacturer's guidelines. Vertical framing not to exceed a spacing of 60 in. o.c. and shall be completely covered by the concrete panels. If horizontal required. framing members shall be installed according to the curtain wall system manufacturer's guidelines.
- C. Concrete Panels: Any non-combustible exterior concrete based panel. Panels shall not be less than 2-1/2 in. thick, 12 in. high or 12 in. long. Attachment to the framing shall be according to the curtain wall system manufacturer's guidelines.
- D. Impaling Pins: When required by insulation manufacturer, use with insulation. The pins shall be located, sized and installed according to the curtain wall system manufacturer's guidelines.
- E. Curtain Wall Insulation: (Optional)
 When curtain wall insulation is
 used, the perimeter joint treatment
 must be installed before the
 insulation. Insulation may be butted
 to top and bottom of perimeter joint
 treatment but not deform the
 perimeter joint treatment. Either
 mineral wool** or fiberglass batt
 insulation** may be used. (**
 Listed with Omega Point
 Laboratories)
- F. Concrete Panel Joint: Vertical and horizontal concrete panel joints created between panels can be either flush type (butt joint) or key way type (tongue and groove). Concrete panel edges must be in contact with each other. If required, the surface of the panel joints can be sealed with gaskets or sealants.

- G. Framing Covers: Framing covers used over the mullions and transoms are optional. When used, the framing covers shall be located, sized and installed according to the curtain wall system manufacturer's guidelines. Framing covers do not pass through the perimeter joint treatment. They are butted to the top and bottom surfaces of the perimeter joint treatment without deforming it. Either mineral wool** or fiberglass batt insulation** may be used. (** Listed with Omega Point Laboratories)
- 3. PERIMETER JOINT PROTECTION: The perimeter joint (linear opening) shall not exceed an 6 in. nom. joint width (joint width at installation) and the perimeter joint treatment shall incorporate the following construction features:
 - A. Packing Material: Use a min. 4 in. thick, 4 pcf density, mineral wool batt insulation** installed with the fibers running parallel to the slab edge and curtain wall. (** Listed with Omega Point Laboratories) The packing material shall compressed 50% in the nominal joint width. Compress the batt insulation into the perimeter joint such that the top surface of the batt insulation is flush with the top surface of the concrete floor slab. Splices (butt joints) in the lengths of mineral wool batt insulation are to be tightly compressed together. Reference the Introduction to Fire Resistive Joint Systems Section of this Directory for more details on how to determine the cut width of the insulation to be installed in the nominal joint width, and how to determine the compressed percentage of a known insulation width installed in a known nominal joint width.
 - B. Fill, Void or Cavity Material: Liquid is to be applied, (sprayed, brushed, or painted) to cover the exposed surface of the mineral wool installed

in the perimeter joint. Apply a min. wet film thickness of 1/8 in. (1/16 in. dry film) and overlap the material a min. 1/2 in. onto the adjacent curtain wall assembly and concrete floor slab assembly. If the spraying process is stopped and the applied liquid cures to elastomeric film before process is restarted, then overlap the edge of the cured material at least 1/8 in. with the spray. Reference Product Section of this Directory for more details about the Listed product.

Listed Manufacturer:

TREMCO, Inc. -

Joint Sealant

Spray

TREMstop Acrylic-SP

** Cycling: Before testing, the spliced, test specimen was cycled 500 times at 30 cpm in accordance with ICBO ES AC 30 (Jan. 1997) and ASTM E 1966.