System No. FW-S-1014
February 24, 2005
Assembly Rating - 4 Hr
L Rating at Ambient - Less than 1 CFM/Lin Ft
L Rating at 400° F - Less than 1 CFM/Lin Ft
Joint Width - 3 In. Max
(UL/cUL)

1. **Wall Assembly** — Min 5-1/2 in. (140 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Wall may also be constructed of any UL Classified Concrete Blocks*.

   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Floor Assembly** — Min 5-1/2 in. (140 mm) thick reinforced lightweight or normal weight (100-150 pcf (1600-2400 kg/m³) structural concrete.

3. **Joint System** — Max width of joint is 3 in. (76 mm). The joint system shall consist of the following:
   
   A. **Forming Material*** — Min 1 in. (25 mm) thick 6.0 pcf (96 kg/m³) ceramic fiber blanket insulation installed in joint opening as a permanent form. Insulation cut and pleated to form a unit 3 in. (76 mm) deep and installed edge-first into joint opening such that sections of insulation unit are compressed a min of 50 percent. Ceramic blanket to be recessed from top surface of floor to accommodate the required thickness of fill material. Adjoining lengths of insulation to be tightly-butted with butted seams spaced min 36 in. (914 mm) apart along the length of the joint.

      **TREMCO INC** — TREMstop FS Blanket

   B. **Fill, Void or Cavity Material*** — Min 1/2 in. (13 mm) thickness of fill material applied within the joint, flush with top surface of floor.

      **TREMCO INC** — Dymeric 240FC

   C. **Fill, Void or Cavity Material*** — (Optional) - When Fyre-Sil, TREMstop Acrylic or Dymeric 240FC is used, min 1/4 in. (6 mm) thickness of fill material applied to bottom surface of ceramic fiber insulation. When TREMstop Acrylic SP is used, min 1/8 in. (3 mm) (wet) thickness of fill material spray or brush applied to completely cover bottom surface of ceramic fiber insulation and lap min 1 in. (25 mm) onto each edge of concrete.

      **TREMCO INC** — Fyre-Sil, TREMstop Acrylic, TREMstop Acrylic SP or Dymeric 240FC

*Bearing the UL Classification Mark

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