

UL Online Certifications Directory

BXUV.X842 Fire Resistance Ratings - ANSI/UL 263

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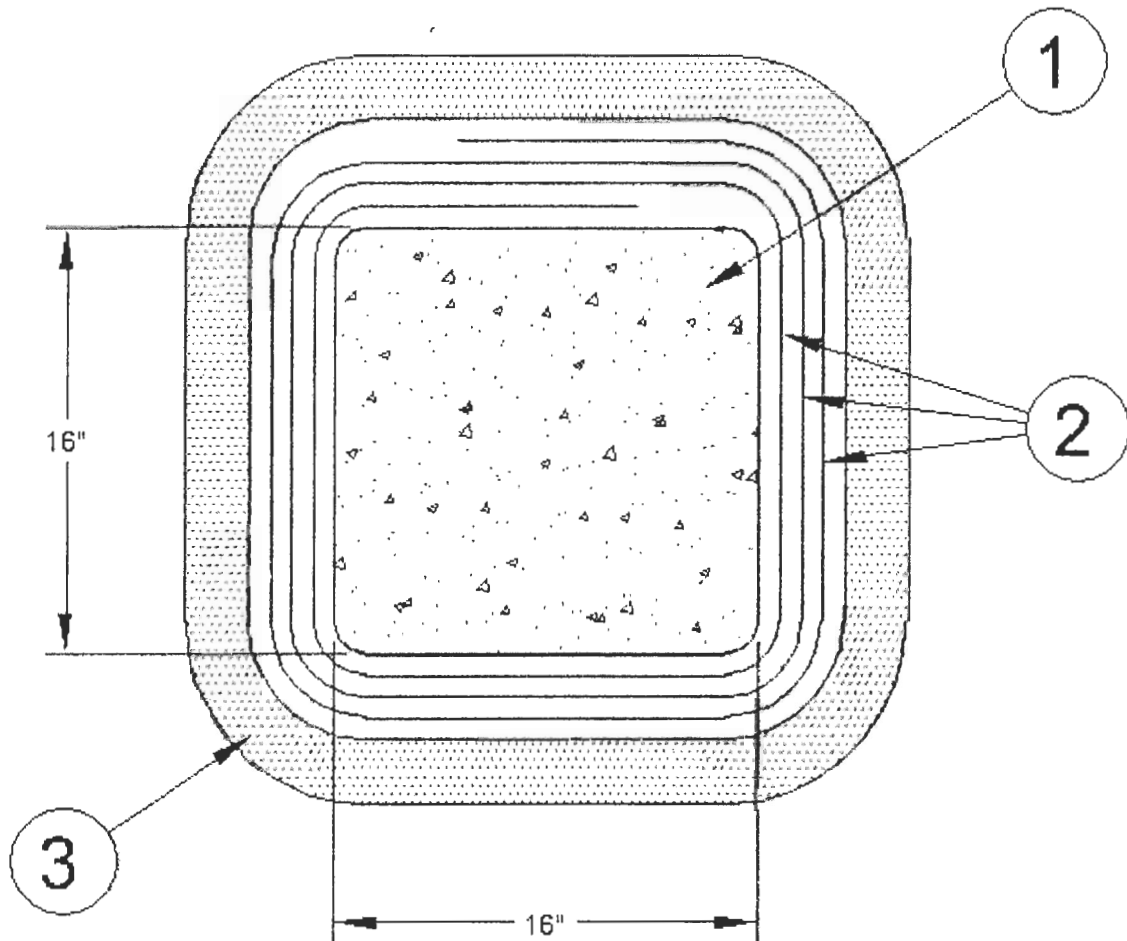
Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. X842

June 14, 2004

Rating-4 Hr



1. **Concrete column** — 16 in. by 16 in. concrete column reinforced with 4 #8 vertical bars and #3 at 16 in. OC hooked ties. The minimum 28 day compressive strength shall be 6000 psi. The corners of the column shall be rounded and the surface of the concrete shall be lightly sand blasted. The applied load for the reinforced column shall be calculated in accordance with the Minimum Acceptable Design Criteria published in ICBO Evaluation Service, Inc. Acceptance Criteria AC125.

2. **Structural Concrete Fiber-Reinforced Composite System*** — Installed in accordance with the manufacturer's instructions, and shall include the following construction: Tyfo® S Primer is applied over the concrete surface. The primed concrete surface is treated with a blend of Tyfo® S and Tyfo® FS, 1 part Tyfo® FS to 14.6 parts Tyfo® S by weight, to fill surface pitting and to render the surface even. Tyfo® SEH fiberglass mesh with area density of 915 gm/m² is saturated with the Tyfo® S mastic coating and before the primer is dry wrapped around the concrete column in three layers such that the last layer overlaps the first by 6 in. Vertical joints in different layers are to be on different sides of the column. All horizontal joints are to be butt jointed.

3. Spray-Applied Fire Resistive Materials* — Surface of Tyfo®SEH fiberglass mesh (Item 2.) to be sanded and coated with Tyfo® VG Primer. Tyfo® VG Dash Coat applied over the primer while the primer is tacky. Tyfo® VG Spray-Applied Fire Resistive Material applied by mixing with water and spraying in one or more coats to minimum average thickness of 1-5/8 in. to Structural Concrete Fiber-Reinforced Composite System surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min individual dry density of 23.2/22.5 lb/ft³, respectively. For method of density determination, refer to General Information Section under heading "Fire Resistance Ratings". Tyfo® EI-R topcoat spray applied over Tyfo® VG.

FYFE CO L L C — Tyfo® VG Primer, Tyfo® VG Dash Coat Tyfo® VG, Tyfo®EI-R

*Bearing the UL Classification Mark

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