

UL Online Certifications Directory

BXUV.X646 Fire Resistance Ratings - ANSI/UL 263

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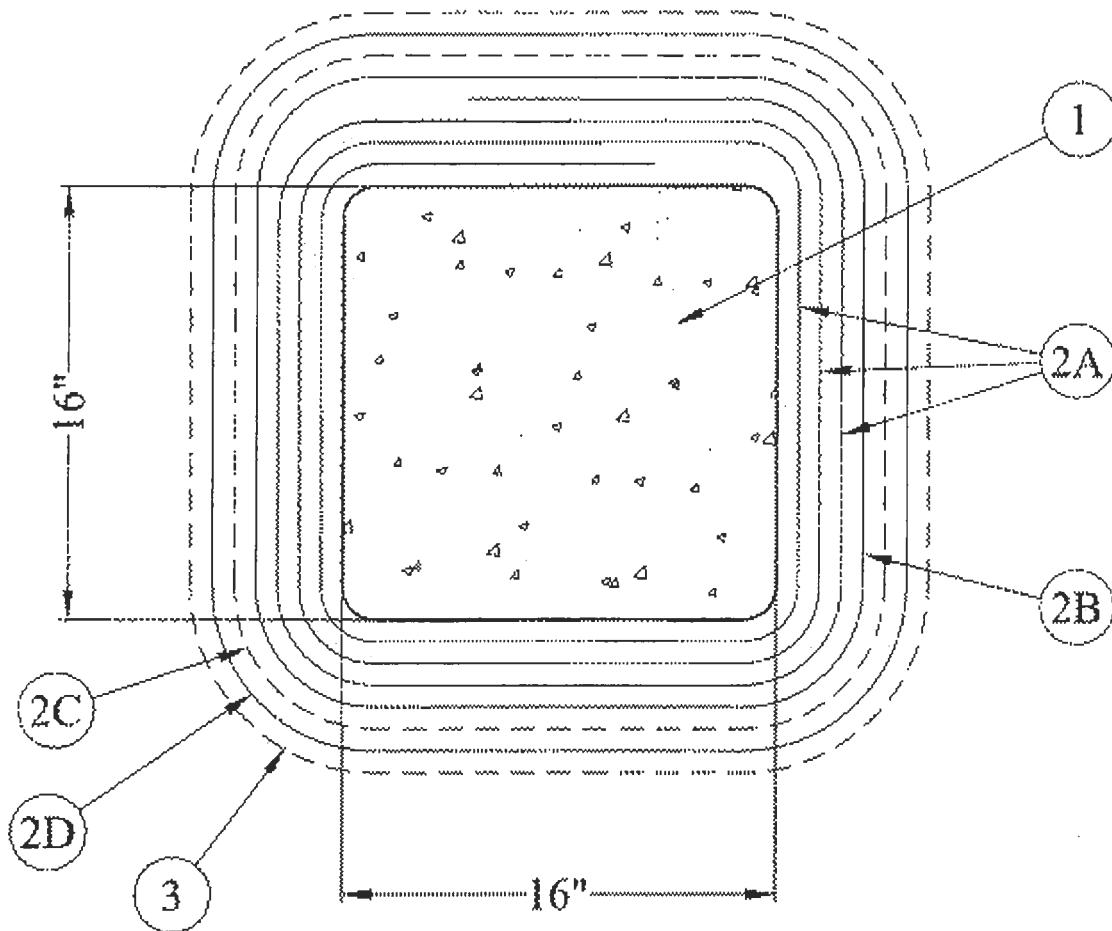
Fire Resistance Ratings - ANSI/UL 263

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

Design No. X646

March 20, 2001

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 stirrups. The minimum 28 day compressive strength shall be 6000 psi. 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:

(a) Tyfo SEH51 fiberglass mesh, area density equivalent to 964.4 g/m² saturated with Tyfo S wrapping epoxy. Wrapped around column in three layers such that the last layer overlaps the first by 6 in. All horizontal joints to be butt jointed.

(b) Tyfo Web fiberglass mesh, area density equivalent to 301.4 g/m² wrapped in a single layer and pressed into Item 2(a). Matrix allowed to cure before application of Item 2(c).

(c) Tyfo CR ceramic fiber adhesive applied over Item 2(b) at an overall dry thickness of 3/32 in.

(d) Tyfo FC base coat applied over Item 2(c) in two coats at an application rate of 14.3 kg/m³. Matrix allowed to cure before application of Item 3.

FYFE CO L L C — Type Tyfo 4HFL column wrap system.

3. Mastic Coatings* — Sprayed in three coats for an overall thickness of 1/16 in. Glass fiber mesh, 3/16 in. x 3/16 in. with minimum area density of 51.7 g/m², embedded between the first and second coats.

FYFE CO L L C — Type Tyfo IM

*Bearing the UL Classification Mark

Last Updated on 2001-03-20

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