UL U935 4-Hour Fire Rating
For 8” Atlas™ Brick Load Bearing Wall With Cores Filled

Design Features:
- Low Life Cycle Cost
- Low Maintenance
- Simple Design
- High Strength
- Integral Color
- High STC
- Natural Clay Materials
- Low Embodied Energy
- Recyclable/Reusable

Wall Loaded Prior To Fire Test
4-Hour Fire Rated Wall

Building Units* — Hollow clay bricks, measuring 7-1/2 in. thick by 3-9/16 in. high by 15-1/2 in. long, with two main square cores and a center web core as shown in the above illustration—most conservative coring for fire rating. Bricks laid in mortar (Item 2) face shell bedding, with vertical joints staggered. Bricks reinforced vertically and horizontally with rebar reinforcement (Item 4) and grout (Item 3) spaced 40 in. o.c. max. Vertical reinforcement placed in cells that align vertically and horizontal reinforcement placed in bond beam stretcher units that align horizontally. The allowable compressive stress for the hollow clay bricks shall be determined using the empirical design method for hollow clay brick found in the model codes. Suitable for exterior use applications. Investigated to ANSI/UL 263 only.

Atlas™ brick were tested using standard 8 x4 x16 in. heights and cores but are available in other sizes and coring that meet the intent of this UL.

1. Interstate Brick — Type 8x4x16 Atlas™ Standard and Quartette™ stretcher units and associated bond beam stretcher units.

2. Mortar — Type S mortar consisting of 1 part Portland cement, 1/2 part hydrated lime to 4-1/2 parts sand by volume. Mortar applied to horizontal surface of the unit face shells and the head joints to a depth equal to the thickness of the face shell. Bed joint and head joint thickness nom. 1/2 inch.

3. Grout — Consisting of 1 part Portland cement, 3 parts sand by volume to 2 parts pea gravel by volume.

4. Rebar Reinforcement — Min. 5/8 in. dia. steel rebar.

5. Loose Masonry Fill — When all core spaces and voids (main square cores, center web cores, head joints, and voids above the webs) are filled as shown with grout, water repellant vermiculite masonry fill insulation, or silicone treated Perlite loose fill insulation (Item 5), Bearing/Non-Bearing Wall Rating is 4 hr.

*Bearing the UL Classification Mark

Model Building Codes permit the use of 4” in., 6” in., 8” in. and 10” Atlas™ brick constructed as fire walls. The fire resistance rating of these walls range from 1 to 4 hrs. Please contact Interstate Brick to discuss your project’s fire resistance requirements and properties of Atlas™ Structural Brick Walls.

See the Design/System/Construction/Assembly/Usage Disclaimer at www.UL.com