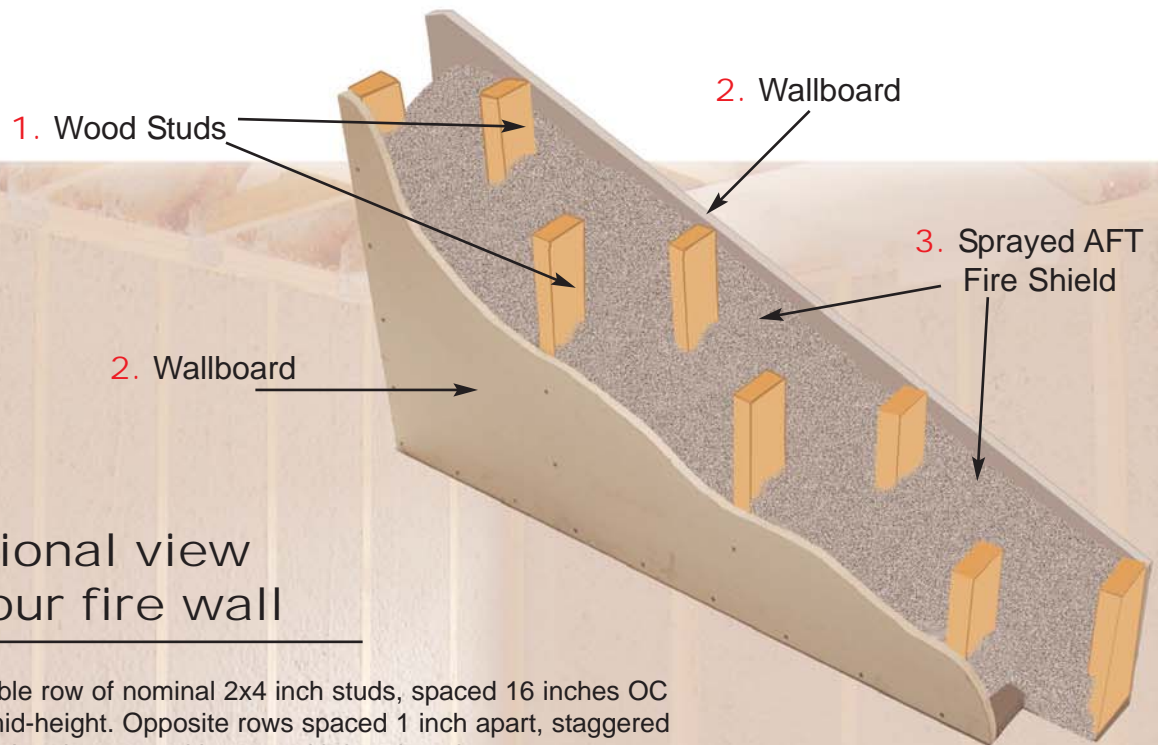


TWO-HOUR FIRE WALL - Constructed with AFT's Fire Shield

The Performance Choice. The Environmental Choice. The Right Choice.

- Less material use creates cost savings.
- Less material use results in easier construction.
- Independent walls reduce sound transmission.
- Made with a minimum of 80% post-consumer newsprint



Cross-sectional view of a two-hour fire wall

1. **Wood Studs** - double row of nominal 2x4 inch studs, spaced 16 inches OC and cross-braced at mid-height. Opposite rows spaced 1 inch apart, staggered 8 inches OC and joined at the top and bottom with bearing plates.

2. **Wallboard, Gypsum** - one layer of 4 foot-wide, 5/8 inch thick Type C gypsum wallboard, applied vertically and screwed to studs and bearing plates 7 inches OC with 1-7/8 inch long cup head drywall screws. Wallboard joints centered over studs.

3. **Sprayed AFT Fire Shield** - spray applied cellulose material. The fiber is applied with water to completely fill the enclosed 8 inch cavity in accordance with the application instructions supplied with the product. The minimum dry density is 4.20 lbs/ft³.

4. **Bearing Plates** - (not shown) nominal 2x4 inch. Two layers on top and one layer on bottom for each row of studs.

5. **Joints and Screwheads** - (not shown) wallboard joints taped and both joints and screwheads covered with joint compound.



AFT's load-bearing, two-hour fire wall has been tested under ASTM E119-07a "Standard Test Methods for Fire Tests of Building Construction and Materials" by Intertek Testing Services NA, Inc. Report No. 3132554-1,2 dated November 29, 2007.

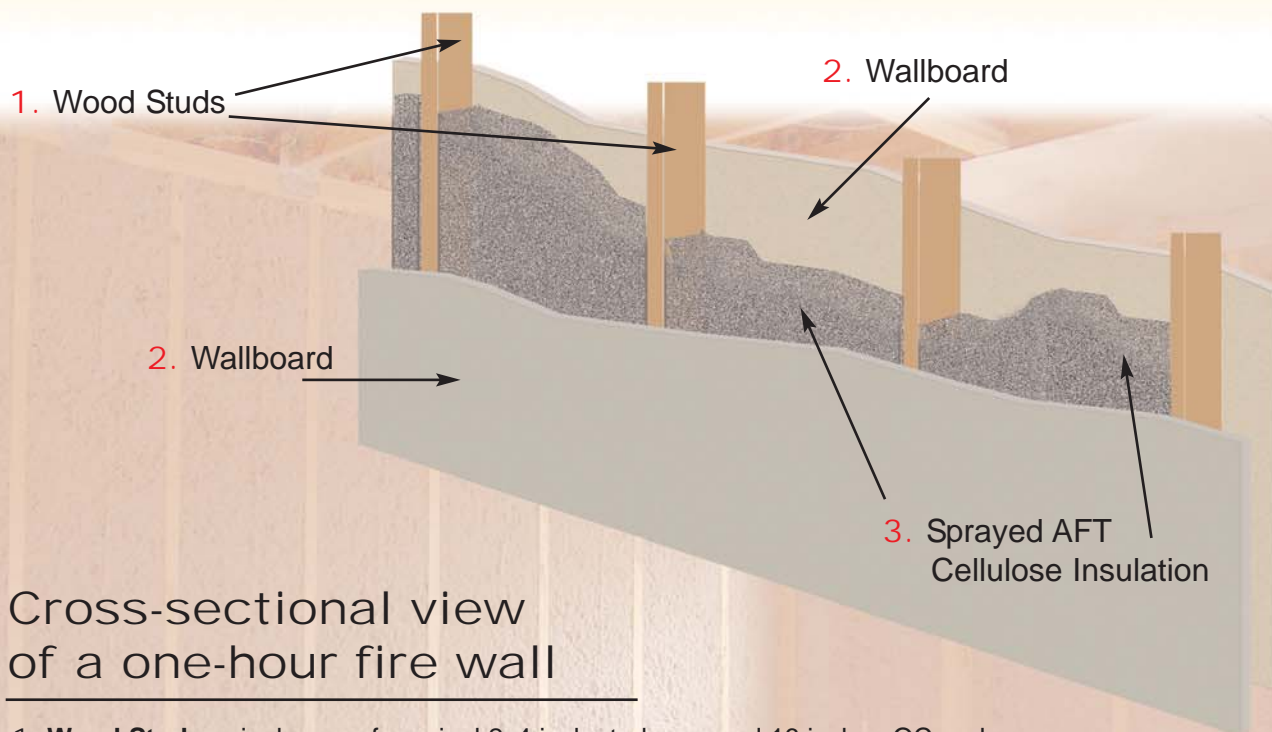
ONE-HOUR FIRE WALL - Constructed with AFT's cellulose insulation

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Section 703.3 of the International Building Code (IBC) recognizes the fire resistance superiority of cellulose insulation compared to standard light density fiberglass batts or foam insulation. An additional 15 minutes of fire resistance is provided by cellulose insulation while no additional minutes are permitted for light density fiberglass batts and foam insulation.

The below wall assembly utilizes the provisions of this section.



Cross-sectional view of a one-hour fire wall

- 1. Wood Studs** - single row of nominal 2x4 inch studs, spaced 16 inches OC and cross-braced at mid-height.
- 2. Wallboard, Gypsum** - one layer of 1/2 inch or 5/8 inch Type X gypsum wallboard.
- 3. Sprayed AFT Cellulose** - spray applied cellulose material having a nominal dry density of not less than 2.6 pounds per cubic foot.
- 4. Bearing Plates** - (not shown) nominal 2x4 inch. Two layers on top and one layer on bottom for each row of studs.
- 5. Joints and Screwheads** - (not shown) wallboard joints taped and both joints and nailheads covered with joint compound.



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