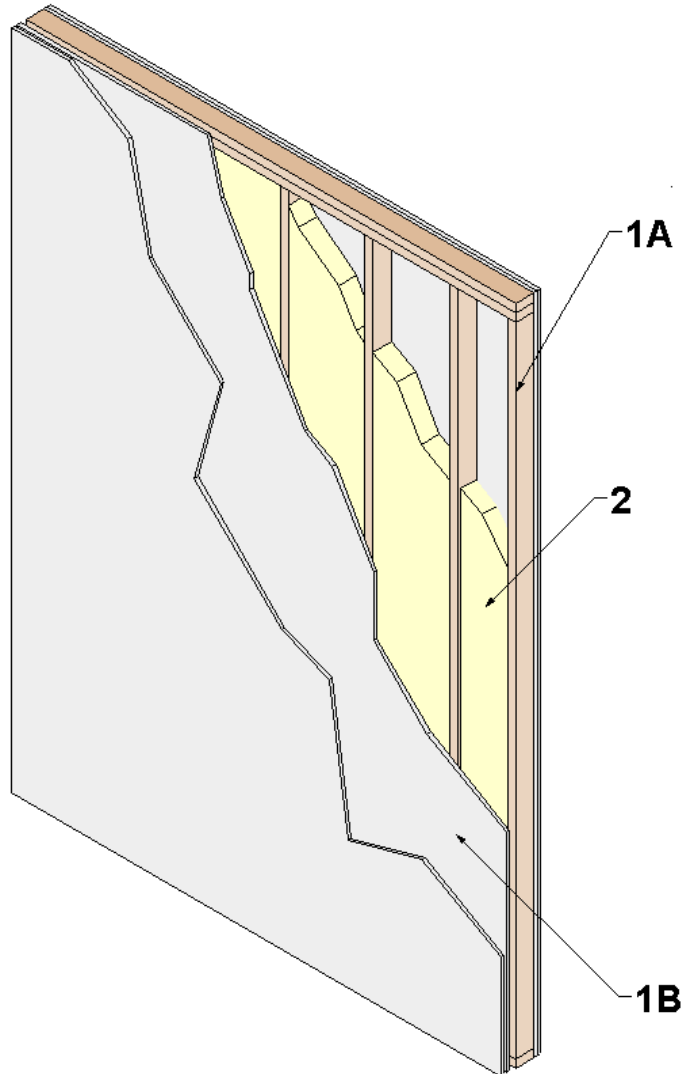


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**Design Number LII/FIP 60-01**  
**Load Bearing Wall System**  
**LaPolla Industries, Inc.**  
Foam-LOK™ FL 2000  
**ASTM E 119 (2009C)**  
Rating: 1 hour  
Loading: 78% (1,862 lb/stud)

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1. WALL ASSEMBLY: Construct 1 - hour rated gypsum wall assembly using the following elements:

A. WOOD STUDS: Install nominal 2-inch X 4-inch Number 2 Southern Yellow Pine wood studs spaced

maximum 16-inches on center. Attach each wood stud to top and bottom wood plates using two (2) 3-inches x 0.120-inch smooth shank nails. Construct top plate of 2 wood studs installed horizontally at the top of the gypsum wall assembly and

the bottom plate of a single wood stud.

- B. **GYPSUM BOARD:** Install two layers of 5/8-inch Type X gypsum board oriented vertically to both sides of the wood studs (Item 1A). Install face layer of the gypsum board over base layer of the gypsum board with minimum 24-inch overlaps at vertical joints. Secure base layer of gypsum board to the wood studs (Item 1A) using 1-5/8-inch coarse thread drywall screws spaced 8-inches on center around the perimeter and 12-inches on center in the field. Install the face layer of the gypsum board over the base layer with vertical joints offset minimum 24-inches. Secure face layer using 2-inch coarse thread drywall screws spaced 8-inches on center around the perimeter and 12-inches on center in the field.
- C. **JOINT TAPE AND COMPOUND:** (Not Shown) After gypsum board (Item 1B) is attached, apply a level 2 finish consisting of the following

elements: Vinyl or casein, dry or premixed joint compound to face layers of gypsum board in two coats to all exposed screw heads and gypsum board butt joints. Embed a minimum 2-inch wide paper, plastic, or fiberglass tape in first layer of compound over butt joints of the gypsum board. Install gypsum board with the following specifications:

2. **CERTIFIED COMPANY:** LaPolla Industries, Inc.

**CERTIFIED PRODUCT:** Polyurethane Foam Insulation

**MODEL:** Foam-LOK™ FL 2000

**INTERIOR WALL INSULATION:** Install a nominal 3.5-inch thick, 2 (± .15) pcf density layer of Foam-LOK™ FL 2000 polyurethane foam applied over the gypsum board (Item 1B).