Performance Formulation Solutiuons LLC
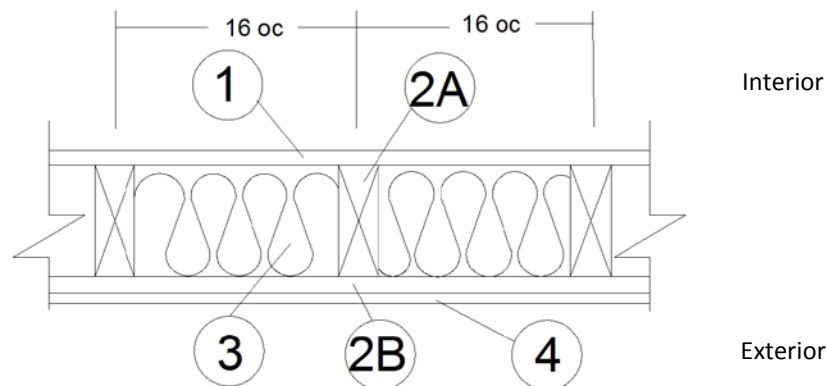**Design No. FRCT/FRWT 60-01**
Fire Retardant Wood
FlameTech™ Lumber and Plywood
ASTM E119
Rating: 1 Hour Load Bearing (Interior only, 2015 NDS - F_c 0.96 for FRWT)

1. **GYPSUM BOARD (Interior):** One layer Firecode® C Core, complying with ASTM C1396, or equivalent, min. 5/8 in. thick, 4 ft. wide applied vertically, fastened to framing. Joints covered with paper tape and joint compound. Fasteners covered with joint compound. Min. #6 × 1-5/8 in. long Type S or W screws, spaced max. 6 in. on center (oc).

2. **CERTIFIED MANUFACTURER:** Fire Retardant Chemical Technologies LLC.

   CERTIFIED PRODUCT: FlameTech™

   2A. CERTIFIED MODEL: FlameTech Lumber

   FlameTech Lumber is min. 2×4 in. nominal wood studs spaced 16 in. oc, or 2×6 in. nominal wood studs spaced 24 in. oc, double top plates and single bottom plate fastened together with 16d common nails (3-1/2 in. × 0.162 in.), 16d box nails (3-1/2 in. × 0.135 in.), or 12d ring nails (3-1/4 in. × 0.135 in.).

2B. CERTIFIED MODEL (Exterior): FlameTech Plywood

FlameTech Plywood, min. 15/32 in. thick, is applied vertically over the specified framing with min. 2-3/8 in. long, 0.113 in. diameter nails, spaced max. 8 in. oc around the perimeter and max. 12 in. oc in the field. Horizontal joints must be blocked.

3. **INSULATION:** Fiberglass batt insulation, min. 3-1/2 in. thick, R-13 friction fit between the studs. If 2×6 in. nominal wood studs are used, fiberglass batt insulation shall be min. 5-1/2 in. thick.

4. **EXTERIOR FACINGS (Optional):** Materials installed in accordance with manufacturer's installation instructions:
   - Masonry brick veneer or concrete
   - Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat
   - Hardboard, wood structural panel, plywood, or fiber-cement siding
   - Metal siding
   - Vinyl siding – exterior plastic