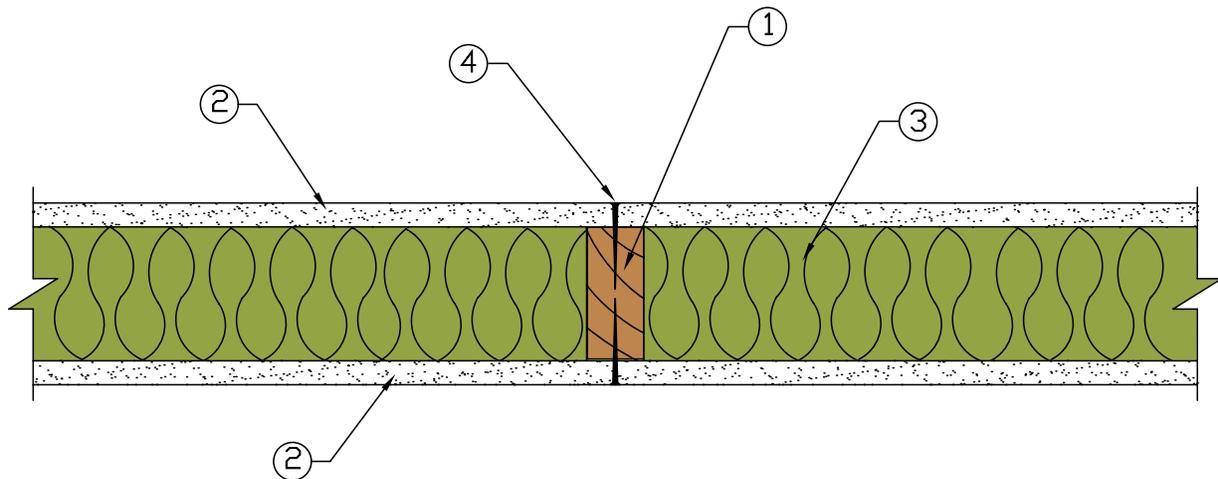


**WS4-1.1 One Hour Fire-Resistive Wood-Frame Wall Assembly****2x4 Wood Stud Wall - 100% Design Load - ASTM E 119/NFPA 251**

1. Framing - Nominal 2x4 wood studs, spaced 16 in. o.c., double top plates, single bottom plate
2. Sheathing - 5/8 in. Type X gypsum wallboard, 4 ft. wide, applied horizontally. Horizontal joints are unblocked. Horizontal application of wallboard represents the direction of least fire resistance as opposed to vertical application.
3. Insulation - 3-1/2 in. thick mineral wool insulation (2.5 pcf, nominal)
4. Fasteners - 2-1/4 in. #6 Type S drywall screws, spaced 12 in. o.c.
5. Joints and Fastener Heads - Wallboard joints covered with paper tape and joint compound, fastener heads covered with joint compound

Tests conducted at the Fire Test Laboratory of National Gypsum Research Center

Test No:	WP-1248 (Fire Endurance)	March 29, 2000
	WP-1246 (Hose Stream)	March 09, 2000

Third Party Witness: Intertek Testing Services  
Report J20-06170.1

This assembly was tested at 100% design load, calculated in accordance with the 2005 *National Design Specification® for Wood Construction*. The authority having jurisdiction should be consulted to assure acceptance of this report.