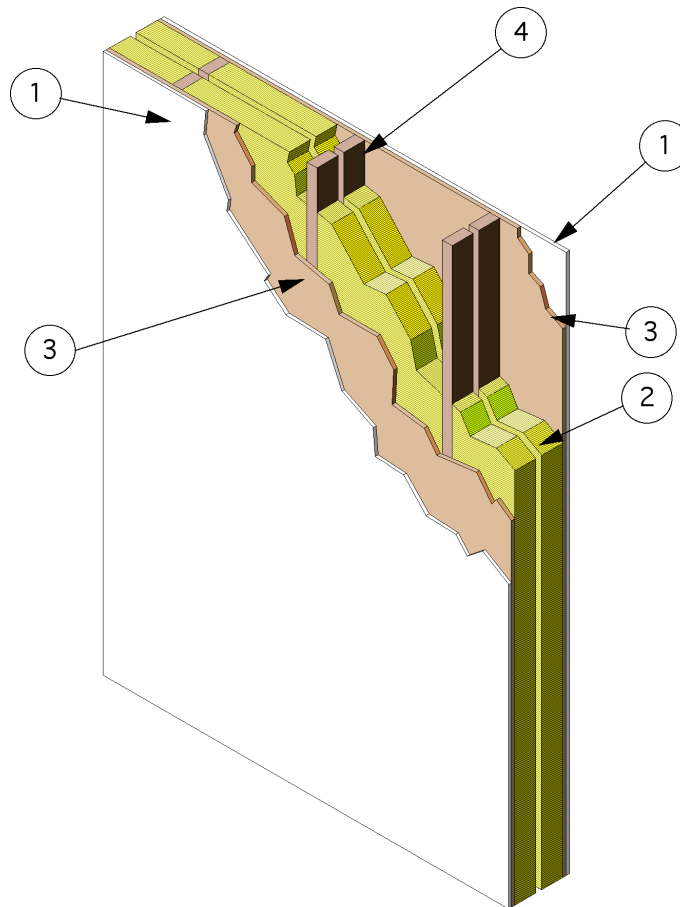


## Design No. BW 126

## BEARING WALL

Assembly Rating: 2 hr



1. WALLBOARD, GYPSUM: One layer 5/8 in. thick x 4 ft. x 10 ft. Type X gypsum wallboard, applied vertically over the panels to each side of the assembly, fastened through the panels with 8d cement coated nails, 2-3/8 in. long, cup-head drywall nails with 0.113 in. shank dia. and 9/32 in. head dia., spaced 8 in. o.c. along all studs and runners. Joint Tape and Compound - vinyl or casein, dry or premixed joint compound applied to face layers of gypsum wallboard in two coats to all exposed fastener heads and gypsum wallboard joints. A min. 2-in. wide paper, plastic or fiberglass tape embedded in first layer of compound over joints in gypsum wallboard.
2. CAVITY INSULATION: Unfaced mineral fiber batt insulation having a nom. 3-1/2 in. thickness, 3 pcf density and friction fit between the studs, cross-bracing, top and bottom plates.
3. PANEL: A nom. 48 x 96 in. panel of either a nom. 1/2 in. (APA rated 15/32 in.) thick plywood or 7/16 in. thick OSB with 0.060 in. thick inorganic laminate boards\*\* adhered to only one face of the wood sheet. Plywood core panels are nom. 9/16 in. thick and OSB core panels are nom. 1/2 in. thick. Inorganic laminate board side of panels are attached to both exposed sides of the wood framing with 1-7/8 in. long, 6d nails, spaced 6 in. o.c. around the perimeter and 12 in. o.c. in the field. (\*\*The inorganic laminate boards are composed of a fire resistant slurry imbedded into a glass fiber mat and are called Pyrotite Sheets.)

## *Fire-Resistant Walls*

### **Listed Manufacturer:**

Barrier Technology Corporation --

Wood Sheathing

Fire Retardant Coated Sheathing

Blazeguard® (Direct Applied, Plywood)

Blazeguard® (Direct Applied, OSB)

4. WOOD STUDS: Nom. 2 in. x 4 in. No. 1 grade wood studs spaced 16 in. o.c., with two 2 in. x 4 in. wood studs as top plate and one 2 in. x 4 in. wood stud as a bottom plate and horizontal cross-bracing positioned at midheight of the wall.