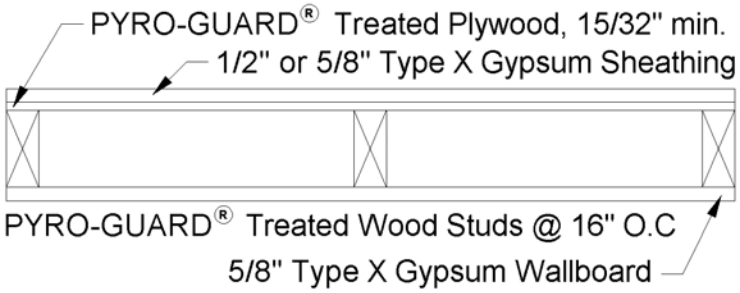
FIGURE 5: 1-HOUR FIRE-RESISTANCE RATED EXTERIOR WALL ASSEMBLY
Use where wall is required to be rated from the exterior and interior sides.



INTERIOR SIDE: One layer $^{5}/_{8}$ inch type X gypsum wallboard or water resistant backer board or veneer base applied parallel with or at right angles to studs fastened with GWB-54 nails at 8 inches o.c. or 8 inches o.c. on the edges and double nailed in the field at 12 inches o.c. or 1 ¼ inch Type W drywall screws at 16 inches o.c..

STUD CAVITY: When used with a 1/2-inch Type X gypsum layer, spaces between the studs are completely filled with glass fiber mineral wool batts weighing not less than 2 pounds per cubic foot (0.6 pound per square foot of wall surface) or rockwool or slag mineral wool batts weighing not less than 3.3 pounds per cubic foot (1 pound per square foot of wall surface), or cellulose insulation having a nominal density not less than 2.6 pounds per cubic foot (Reference IBC Table 722.6.2(5)). When used with a 5/8-inch Type X gypsum layer, stud cavity insulation is optional.

EXTERIOR SIDE: One layer 1/2-inch or one layer 5/8-inch Type X gypsum sheathing, 48 inches wide applied parallel to studs fastened with GWB-54 nails at 8 inches o.c. or 8 inches o.c. on the edges and double nailed in the field at 12 inches o.c. or 1 ¼ inch Type W drywall screws at 16 inches o.c. and one layer PYRO-GUARD Treated Plywood minimum 15/32-inch thickness, fastened in accordance with Table 2304.9.1 of the IBC covered with a water resistant barrier. FRTW plywood can be directly-applied to the wood studs, or applied to the gypsum. Use of 1/2-inch Type X gypsum requires the use of insulation as described in IBC Table 722.6.2(5).

EXTERIOR FINISH shall be a material and of the thickness required by Table 1405.2 of the IBC installed in accordance with the manufacturers recommendations. Vinyl Siding shall not be permitted with Type III or Type IV construction.