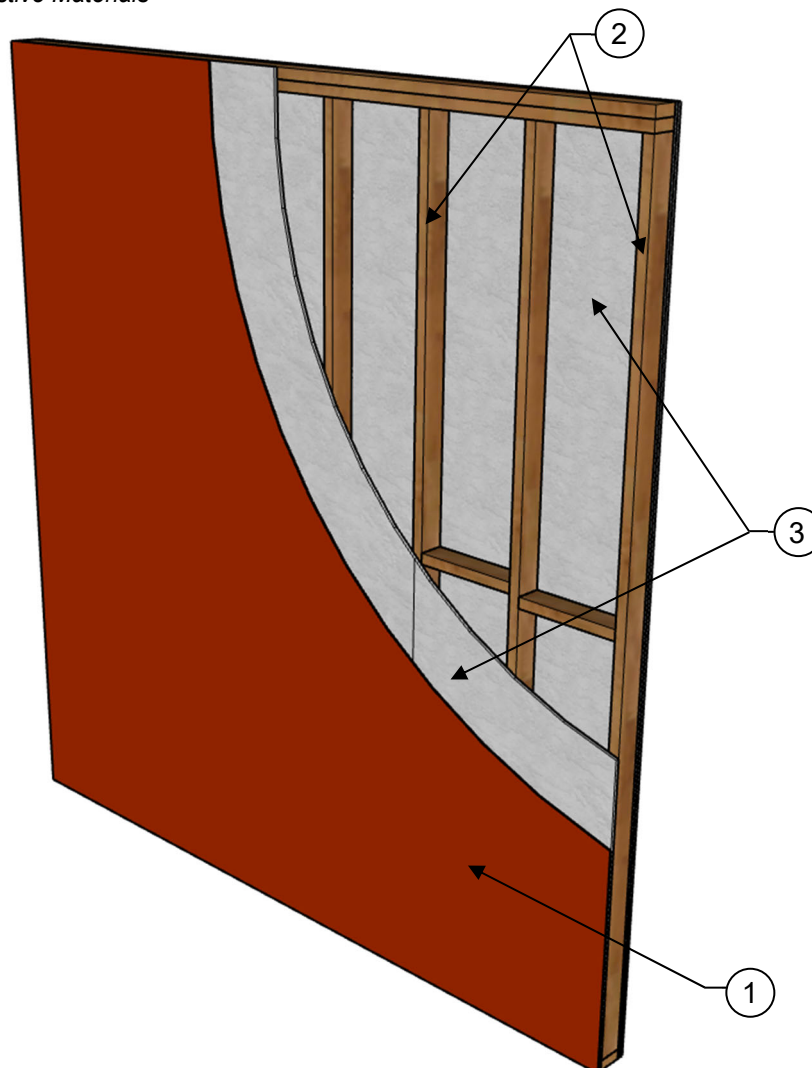


Applicant: FLAMEOFF COATINGS, INC.
Product: FLAMEOFF® FIRE BARRIER PAINT
Standard: ASTM E119 (UL 263) / CAN/ULC-S101
Assembly Rating: 2-Hour (Nonsymmetric Wood Stud Wall Assembly)
Load: Non-Load Bearing

Assembly:

IFRM = Intumescent Fire-Resistive Materials



COMPONENTS OF CONSTRUCTION:

1. **FlameOff® Fire Barrier Paint** – Applied to the exposed face of the wall assembly in accordance with manufacturer's instructions to the minimum dry film thickness of 43 mils (1.09 mm).
2. **Wood Framing** – Nominal 2-inch by 4-inch (50.8 mm x 101.6 mm) wood studs. Top and bottom bearing plates [nominal 2-inch by 4-inch (50.8 mm x 101.6 mm) wood studs laid flatwise] were cut to 120-inch (3048 mm) lengths. One stud was centered along the vertical centerline of the assembly and all studs were spaced 16 inches (406.4 mm) on center from the vertical centerline. The end studs were spaced 12 inches (304.8 mm) on center. At each stud and bearing plate connection, two 3½-inch (88.9 mm) long 16d nails were used. Nominal 2-inch by 4-inch (50.8 mm x 101.6mm) blocking were installed in between the studs along the horizontal centerline of the wall assembly. The blocking was staggered to allow two 3½-inch (88.9 mm) long 16d nails to be driven from either side of each section of blocking. Maximum height of the wall assembly was 115.5 inches (2933.7 mm).
3. **Gypsum Wallboard** – Nominal 5/8-inch (15.9 mm) thick Type X gypsum wallboard by United States Gypsum Company, which was applied vertically to the wood studs on both sides of the wall assembly. The exposed face has one layer of gypsum wallboard while the unexposed face of the wall assembly had two layers of gypsum wallboard. The first layer (both exposed and unexposed) of gypsum wallboard was fastened to the wood framing using 1¼-inch (31.8 mm) long Type W screws spaced 8 inches (203.2 mm) on center along the perimeter and in the field; and the second layer on the unexposed side was fastened with 2-inch long (50.8 mm) Type W screws spaced 8 inches (203.2 mm) on center along the perimeter and in the field. The vertical gypsum wallboard joints between layers of the unexposed face were staggered one stud cavity while the vertical joints were also staggered across stud cavities. All gypsum wallboard joints and screws received a Level 2 finish complying with ASTM C840 or GA216.