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Applicant: DUPONT DE NEMOURS, INC.

Product: DUPONT™ ARMORWALL AND DUPONT™ ARMORWALL PLUS STRUCTURAL INSULATED SHEATHING: 2-INCH, 2 ³/₄-INCH, AND 3 ³/₄-INCH THICK PANELS
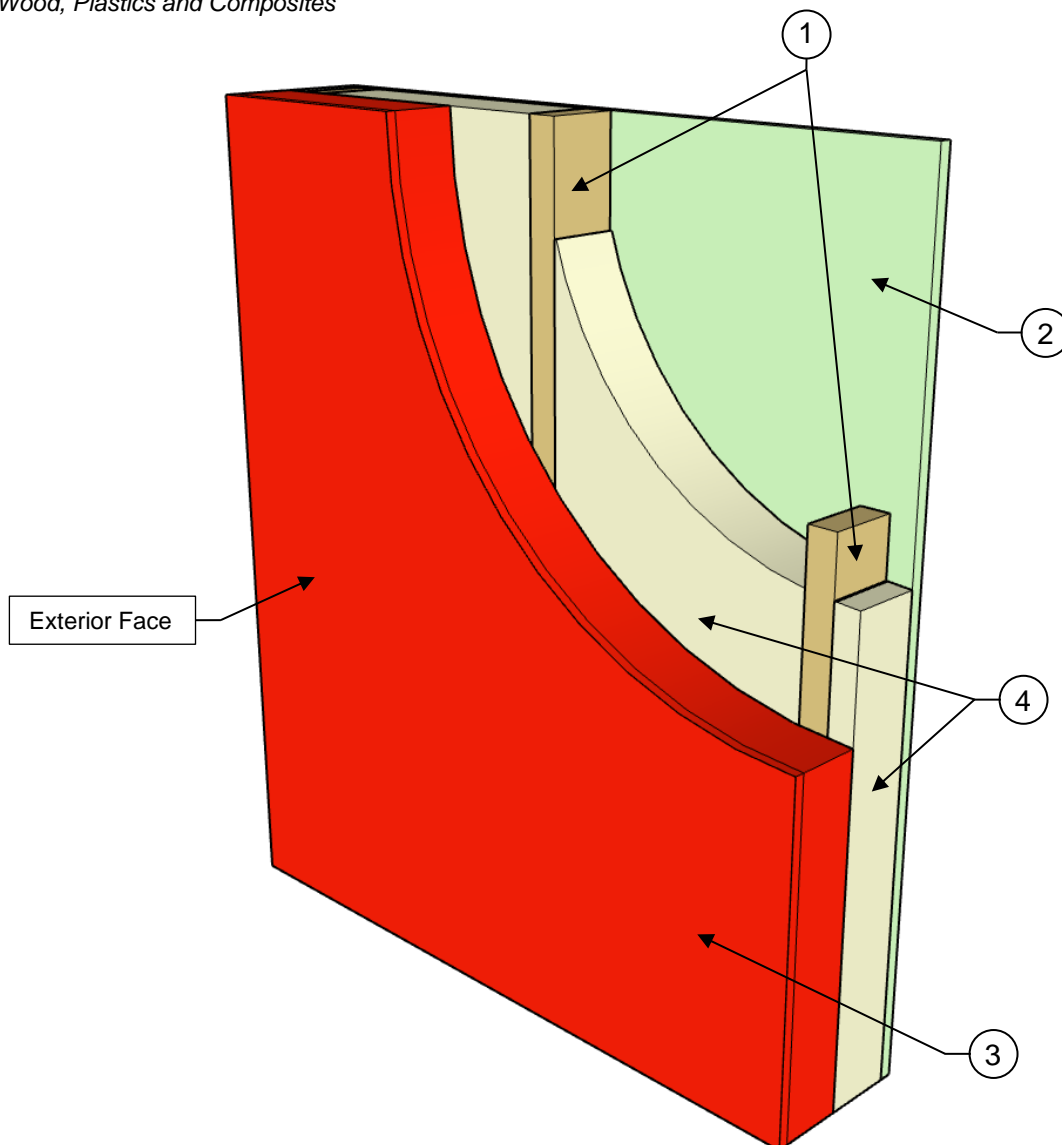
Standard: ASTM E119 (UL 263) / CAN/ULC-S101

Assembly Rating: 1-Hour

Load: Load Bearing – See Conditions of Listing Note #5

WPC = Wood, Plastics and Composites

Exterior Face

COMPONENTS OF CONSTRUCTION:

1. **Wood Framing –** Minimum 2-inch by 4-inch (50.8 mm by 101.6 mm) wood studs with a governing slenderness ratio (l_e/d) of 38.5, spaced maximum 24 inches (609.6 mm) on center, with blocking at mid-height in the weak-axis direction, are secured to top and bottom plates with 16d – 3 $^1/_2$-inch (88.9 mm) long x 0.131-inch (3.33 mm) diameter smooth shank framing nails. A double top plate is secured to the first top plate with 3-inch (76.2 mm) long x 0.131-inch (3.33 mm) diameter nails spaced 16 inches (406.4 mm) on center. Full-depth blocking is installed between each stud at mid-height of the wall assembly and secured with 3-inch (76.2 mm) long x 0.131-inch (3.33 mm) diameter nails.

   Note: See Conditions of Listing Items 5 and 6 of ESL-1302.

2. **Interior Sheathing (Gypsum Wallboard) –** One layer of minimum $^5/_8$-inch (15.9 mm) thick Type X gypsum wallboard with beveled edges is secured directly to the base wall system framing, on the interior side of the wall assembly, using 1 $^1/_4$-inch (31.8 mm) Type W drywall screws spaced 8 inches (203.2 mm) on center along the perimeter and 12 inches (304.8 mm) on center in the field. Gypsum wallboard may be installed vertically or horizontally to the studs. All vertical seams must fall on studs and must be staggered from one side of the assembly to the opposite sides of the assembly. All sheathing joints must be treated with two coats of joint compound with nominal 2-inch wide paper tape embedded in first layer of compound over all joints. All fastener heads must be covered with one layer of joint compound.

3. **Exterior Sheathing (DuPont™ ArmorWall) –** One layer of maximum 3 $^3/_4$-inch (95.3 mm) thick DuPont™ ArmorWall or DuPont™ ArmorWall Plus Structural Insulated Sheathing is secured directly to the base wall system framing, on the exterior side of the wall assembly with the insulation layer of the panel facing inward, using minimum 5-inch (127 mm) long #14-13 DP1 concealer pancake head self-drilling screws spaced 12 inches (304.8 mm) on center along the perimeter and in the field. DuPont™ ArmorWall and DuPont™ ArmorWall Plus panels may be installed vertically or horizontally to the studs. All vertical seams must fall on studs and must be staggered from one side of the assembly to the opposite sides of the assembly. Joints and fastener heads must be treated with one layer of DuPont™ ArmorSeal Sealant.

   Note: Where one layer of 2-inch (50.8 mm) or 2 $^3/_4$-inch (69.9 mm) thick DuPont™ ArmorWall or DuPont™ ArmorWall Plus is used, minimum #14-13 DP1 concealer pancake head self-drilling screw lengths must be minimum 3-inch (76.2 mm) or 4-inch (101.6 mm) long, respectively.

4. **Insulation –** Minimum R-13 mineral wool insulation, bearing the UL Classification Marking for surface burning and/or fire resistance, with nominal thickness of 3 $^1/_2$-inches (88.9 mm) is friction-fit into each stud cavity. The insulation thickness must match the stud cavity depth.

5. **Exterior Facing Assembly (Not Shown) –** Any exterior facing, as authorized by the Authority having jurisdiction and installed in accordance with the manufacturer's installation instructions.