

ICC-ES Evaluation Report


ESR-5116

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<p>DIVISION: 06 00 00— WOOD PLASTICS AND COMPOSITES</p> <p>Section: 06 05 83— Shop-Applied Wood Coatings</p> <p>Section: 06 16 00— Sheathing</p>	<p>REPORT HOLDER: ARCLIN SURFACES LLC</p>	<p>EVALUATION SUBJECT: FIREPOINT® 2500</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021 and 2018 [International Building Code® \(IBC\)](#)
- 2021 and 2018 [International Residential Code® \(IRC\)](#)

Properties evaluated:

- Durability
- Surface-burning characteristics
- Structural
- Thermal barrier
- Component of fire-resistance assemblies
- Sound transmission

2.0 USES

FirePoint® 2500 is a factory-applied intumescent impregnated fiberglass reinforced overlayment adhesively bonded to plywood complying with US DOC PS-1. The FirePoint® 2500 fire-rated sheathing is used as roof sheathing, wall sheathing, an interior finish, and a component of a fire-resistance-rated assembly.

3.0 DESCRIPTION

3.1 General:

The FirePoint® 2500 fire-rated sheathing described in this report is a composite panel consisting of a layer of FirePoint® 2500 overlayment, that is factory bonded to plywood complying with US DOC PS-1. The FirePoint® 2500 overlayment is an inert, intumescent fire shield that meets the non-combustibility requirements of IBC Section 703.5.1. The FirePoint® 2500 overlayment is adhesively applied to one or both faces of the plywood, as specified in the approved quality control documentation and manufacturing standard.

The products are typically available in sizes from 4 feet by 8 feet (1219 mm by 2438 mm) with a nominal 1/2-inch (12.7 mm) thickness.

3.2 Surface burning characteristics:

The FirePoint[®] 2500 fire-rated sheathing has a flame-spread index of 25 or less and a smoke developed index of 450 or less when subjected to tests in accordance with IBC Section 2303.2 and 2021 IBC Section 2303.2.3. The FirePoint[®] 2500 fire-rated sheathing qualifies as a Class A finish in accordance with IBC Section 803.1.2.

4.0 DESIGN AND INSTALLATION

4.1 General:

FirePoint[®] 2500 fire-rated sheathing must be installed in accordance with the report holder's published literature and the requirements for wood structural panels in Chapter 23 of the IBC, or Section R604 and R803.2 of the IRC. The report holder's published installation instructions and this report must be strictly adhered to, and a copy of the instructions must be available at all times on the jobsite during installation. If there are any conflicts between the manufacturer's instructions and this report, this report governs.

4.2 Applications:

The panels are installed in the following applications:

- Roof sheathing on buildings of Type III, IV and V construction for a distance of 4 feet (1219 mm) on both sides of the fire wall to provide continuity in accordance with Exception 4.3 of IBC Section 706.6 and the exception to IRC Section R302.2.4. The sheathing must be installed with the FirePoint[®] 2500 overlayment side facing the interior of the building.
- Exterior walls and roof sheathing on buildings of Type I and II construction, as described in IBC Section 603.1, Item 1 Subsections 1.2 and 1.3. The FirePoint[®] 2500 overlayment must be laminated to both sides of the panels.
- Wall sheathing for exterior walls in buildings of Type III construction with a two-hour rating or less. The FirePoint[®] 2500 overlayment must be laminated to each side of the panels and the studs must be of noncombustible material or fire-retardant-treated wood in accordance with IBC Section 602.3.
- Class A interior finish material for walls and ceilings of Type V construction in accordance with IBC Section 803.1.2. The panels must be installed with the FirePoint[®] 2500 overlayment side facing the interior of the building.
- Exterior walls of Type V construction.
- Component of fire-resistance-rated construction (IBC Section 703). Refer to assemblies described in Section 4.4 of this report.

4.3 Structural Design:

The structural design of FirePoint[®] 2500 fire-rated sheathing shall be in accordance with the IBC and IRC, and with APA Engineered Wood Construction Guide (E30, revised December 2019).

4.4 Fire-resistance-rated Wall Assemblies:

4.4.1 One-hour Exterior Wall Assembly- Wood Stud Load Bearing Wall – Exterior Fire Exposure – Single Side FirePoint 2500 Plywood:

The asymmetrical wall assembly must be constructed as follows:

- **Framing:** Nominal 2-inches by 4-inches wood studs, spaced maximum 16 inches (406 mm) on center with 12-inches (305 mm) edge-to-center spacing on each side of the wall assembly, must be secured to double top and single bottom plates of similar grade and species using 3-inches-long (76.2 mm) x 0.131-inch (3.3 mm) diameter smooth shank framing nails. Blocking must be installed 24 inches (610 mm) edge-to-center from the bottom plate and 48 inches (1219.2 mm) edge-to-center from the double top plates. The blocking must be fastened to the studs using 3-inch-long (76.2 mm) x 0.131-inch (3.3 mm) diameter smooth shank framing nails. **Note: See Conditions of Use – Section 5.5 of this report for 100% design load requirements.**
- **Interior Sheathing:** Two layers of 5/8-inch-thick (15.9 mm-thick) Type X gypsum wallboard conforming to ASTM C1396 oriented vertically with staggered seams must be secured to the framing on the interior side of the wall assembly. The base layer must be secured to the framing using 1 5/8-inches-long (41.3 mm) 6d coarse thread, bugle head drywall screws, spaced 8 inches (203 mm) on center around the perimeter and 12 inches (305 mm) on center in the field of the panel. Fasteners around the perimeter must be spaced minimum 3/8-inch (9.5 mm) from the edge of the panel. The face layer of gypsum wallboard must be secured using 2 1/2-inch-long (63.5 mm), No. 8 coarse thread, bugle head drywall screws spaced 8 inches (203 mm) on-center around the perimeter and 12 inches (305 mm) on center in the field. Face layer seams must be treated with 2-inch-wide (51 mm) paper tape and a level 2 finish joint compound. All fastener heads must be covered with two layers of joint compound.

- **Insulation:** Nominal 3¹/₂-inches-thick (89 mm) by 16-inches-wide (406 mm) of R15 mineral wool insulation friction fit in each stud cavity.
(Optional) Alternatively, nominal 3¹/₂-inches-thick (89 mm) by 16-inches-wide (406 mm) R11 fiberglass faced batt insulation secured with T50, 1/2-inch (12.7 mm) crown staples spaced per the manufacturer's specifications.
- **Exterior Sheathing:** One layer of nominal 1/2-inch-thick (12.7 mm) Douglas Fir CDX plywood overlaid on the exterior face only with FirePoint[®] 2500 fire-rated sheathing secured with 2³/₈-inches-long (60.3 mm) x 0.113-inch (2.9 mm) diameter No 8d ring shank, exterior nails spaced 6 inches (152.4 mm) on-center around the perimeter and 12 inches (305 mm) on center in the field of the panel.

4.4.2 One-hour Exterior Wall Assembly- Wood Stud Load Bearing Wall – Exterior Fire Exposure – Single Side FirePoint[®] 2500 Plywood:

The asymmetrical wall assembly must be constructed as follows:

- **Framing:** Nominal 2-inches by 4-inches wood studs, spaced maximum 16 inches (406 mm) on center with 12-inch (305 mm) edge-to-center spacing on each side of the wall assembly, are secured to double top and single bottom plate of similar grade and species using 3-inches-long (76.2 mm) x 0.131-inch (3.3 mm) diameter smooth shank framing nails. Blocking must be installed 24 inches (610 mm) edge-to-center from the bottom plate secured to studs using 3-inches-long (76.2 mm) x 0.131-inch (3.3 mm) diameter smooth shank framing nails. **Note: See Conditions of Use – Section 5.5 of this report for 100% design load requirements**
- **Interior Sheathing:** One layer of 5/8-inch-thick (15.9 mm-thick) Type X gypsum wallboard conforming to ASTM C1396 oriented vertically with staggered seams must be secured to the framing using 1⁵/₈-inches-long (41.3 mm) 6d coarse thread, bugle head drywall screws, spaced 8 inches (203.2 mm) on center around the perimeter and 12 inches (305 mm) on center in the field of the panel. Fasteners around the perimeter must be spaced minimum 3/8-inch (9.5 mm) from the edge of the panel. Gypsum wallboard seams must be treated with 2-inch-wide (51 mm) paper tape and a level 2 finish joint compound. All fastener heads must be covered with two layers of joint compound.
- **Insulation:** Minimum nominal 3¹/₂-inches-thick (89 mm) by 16-inches-wide (406 mm) R13 fiberglass faced batt insulation secured with T50, 1/2-inch (12.7 mm) crown staples spaced at 16 inches (406 mm) on-center.
- **Exterior Sheathing:** One layer of nominal 1/2-inch-thick (12.7 mm) Douglas Fir CDX plywood overlaid on the exterior face only with FirePoint[®] 2500 fire-rated sheathing secured with 2³/₈-inches-long (60.3 mm) x 0.113-inch (2.9 mm) diameter No. 8d ring shank, exterior nails spaced 6 inches (152.4 mm) on-center around the perimeter and 12 inches (305 mm) on center in the field of the panel.

4.4.3 One-hour Exterior Wall Assembly- Wood Stud Load Bearing Wall – Fire Exposure from Both Sides – Single Side FirePoint[®] 2500 Plywood:

The asymmetrical wall assembly must be constructed as follows:

- **Framing:** Nominal 2-inches by 4-inches wood studs, spaced maximum 16 inches (406 mm) on-center. Each of the studs must be secured to the nominal 2-inches by 4-inches wood interior top plate and nominal 2-inches by 4-inches wood single bottom plate using two 3-inch-long (76 mm) by 0.131-inches-diameter (3.3 mm) smooth shank framing nails. A second top plate must be secured on top of the interior top plate using one 3-inch-long (76 mm) by 0.131-inch-diameter (3.3 mm) smooth shank framing nail spaced every 24 inches (610 mm) on center. Nominal 2-inches by 4-inches wood blocking must be installed within each stud cavity at mid-height of the wall assembly. Blocking must be staggered 3/4-inch (19.1 mm) on center from the wall assembly centerline and secured to studs using two 3-inches-long (76 mm) by 0.131-inch (3.3 mm)-diameter smooth shank framing nails. Nominal 2-inches by 4-inches wood blocking must be installed 24-inches (610 mm) edge-to-center from the bottom plate as blocking for horizontal joints in the exterior sheathing. **Note: See Conditions of Use – Section 5.5 of this report for 100% design load requirements.**
- **Interior Sheathing:** One layer of 5/8-inch-thick (15.9 mm-thick) Type X gypsum wallboard conforming to ASTM C1396, oriented vertically with seams staggered a minimum of one stud cavity from vertical seams in the exterior sheathing, must be secured to the framing using 1⁵/₈-inches-long (41.3 mm) 6d coarse thread, bugle head drywall screws, spaced 8 inches (203.2 mm) on center around the perimeter and 12 inches (305 mm) on center in the field of the panel. Fasteners around the perimeter must be spaced minimum 3/8-inch (9.5 mm) from the edge of the panel. Gypsum wallboard seams must be treated with 2-inch-wide (51 mm) paper tape and a level 2 finish joint compound. All fastener heads must be covered with two layers of joint compound.

- **Insulation:** Minimum nominal 3¹/₂-inches-thick (89 mm) by 16-inches-wide (406 mm), R13 fiberglass faced batt insulation, with a Class A interior finish classification, secured with T50, 1/2-inch (12.7 mm) crown staples through the facer flanges and spaced at 16 inches (406 mm) on-center. **Exterior Sheathing:** One layer of nominal 1/2-inch-thick (12.7 mm) Douglas Fir CDX plywood overlaid on the exterior face only with FirePoint[®] 2500 fire-rated sheathing secured with 2³/₈-inches-long (60.3 mm) x 0.113-inch (2.9 mm) diameter No. 8d ring shank, exterior nails spaced 6 inches (152.4 mm) on-center around the perimeter and 12 inches (305 mm) on center in the field of the panel. Fasteners around the perimeter must be spaced minimum 3/8-inch (9.5 mm) from the edge of the panel.

4.4.4 Two-hour Exterior Wall Assembly – Wood Stud Load Bearing Wall–Fire Exposure from Both Sides – Double Side FirePoint[®] 2500 Plywood:

The asymmetrical wall assembly must be constructed as follows:

- **Framing:** Nominal 2-inches by 6-inches wood studs, spaced maximum 16 inches (406 mm) on-center secured to a double top and single bottom plates using 3-inches-long (76 mm) by 0.131-inch (3.3 mm) diameter smooth shank framing nails. Blocking must be installed 24 inches (610 mm) edge-to-center from the bottom plate and 48 inches (1219 mm) edge to center from the double top plates. The blocking must be fastened to studs using 3-inches-long (76 mm) x 0.131-inch (3.3 mm) diameter smooth shank framing nails. **Note: See Conditions of Use – Section 5.5 of this report for 100% design load requirements.**
- **Interior Sheathing:** Two layers of 5/8-inch-thick (15.9 mm) Type X gypsum wallboard conforming to ASTM C1396. The base layer of the gypsum wallboard must be secured 1⁵/₈-inches-long (41 mm) No. 6 coarse thread, bugle head drywall screws spaced 8 inches (203 mm) on-center around the perimeter and 12 inches (305 mm) on-center in the field of the panel. Fasteners around the perimeter of the gypsum wallboard must be spaced 3/8-inch (15.9 mm) from the edge of the panel. The face layer of gypsum wallboard must be secured using 2¹/₂-inches-long (64 mm), No. 8 coarse thread, bugle head drywall screws spaced 8 inches (203 mm) on-center around the perimeter and 12 inches (305 mm) on-center in the field with a 3 inches (76 mm) offset applied to the fastener spacing from the face layer to the base layer to avoid fasteners hitting. Gypsum wallboard seams must be treated with 2-inches-wide (51 mm) paper tape and a level 2 finish joint compound. All fastener heads must be covered with two layers of joint compound.
- **Insulation:** Nominal 5¹/₂-inches-thick (140 mm) by 16-inch-wide (406 mm) R23 mineral wool batt insulation friction fit within each stud cavity.
- **Exterior Sheathing:** Nominal 1/2-inch-thick (12.7 mm) Douglas Fir CDX plywood, overlaid on both the interior and exterior face of the plywood with FirePoint[®] 2500 fire-rated sheathing secured using 8d 2³/₈-inches-long (60 mm) x 0.113-inch (2.9 mm) diameter ring shank, exterior nails spaced 6 inches (152 mm) on-center around the perimeter and 12 inches (305 mm) on-center in the field of the panel. Fasteners around the perimeter of the sheathing panels must be spaced 3/8-inch (9.5 mm) from the edge of the panel.

4.4.5 Exterior Wall Assembly – Wood Stud Load Bearing Wall– Two-hour Interior Fire Exposure – One-hour Exterior Fire Exposure - Double Side FirePoint[®] 2500 Plywood:

The asymmetrical wall assembly must be constructed as follows:

- **Framing:** Nominal 2-inches by 4-inches wood studs, spaced maximum 16 inches (406 mm) on-center secured to a double top and single bottom plates using 3-inches-long (76 mm) by 0.131-inch diameter (3.3 mm) smooth shank framing nails. Blocking must be installed 24-inches (610 mm) edge-to-center from the bottom plate and 48-inches (1219 mm) edge to center from the double top plates secured to studs using 3-inches-long (76 mm) x 0.131-inch (3.3 mm) diameter smooth shank framing nails. **Note: See Conditions of Use – Section 5.5 of this report for 100% design load requirements.**
- **Interior Sheathing:** Two layers of 5/8-inch-thick (15.9 mm) Type X gypsum wallboard conforming to ASTM C1396. The base layer of the gypsum wallboard must be secured using 1⁵/₈-inches-long (41 mm), No. 6 coarse thread, bugle head drywall screws spaced 6 inches (152 mm) on-center around the perimeter and 12 inches (305 mm) on-center in the field of the panel. Fasteners around the perimeter of the gypsum wallboard must be spaced 3/8-inch (9.5 mm) from the edge of the panel. The face layer of gypsum wallboard must be secured using 2¹/₂-inches-long (64 mm), No. 8 coarse thread, bugle head drywall screws spaced 6 inches (152 mm) on-center around the perimeter and 12 inches (305 mm) on-center in the field with a 3-inches (76 mm) offset applied to the fastener spacing from the face layer to the base layer to avoid fasteners hitting. The face layer seams must be treated with 2-inches-wide (51 mm) paper tape and a level 2 finish joint compound. All fastener heads must be covered with two layers of joint compound.

- **Insulation:** Nominal 3¹/₂-inches-thick (89 mm) by 16-inches-wide (406 mm) batts R15 mineral wool insulation friction fit within each stud cavity.
- **Exterior Sheathing:** Nominal 1/2-inch-thick (12.7 mm) Douglas Fir CDX plywood, overlaid on both the interior and exterior face of the plywood with FirePoint[®] 2500 fire-rated sheathing secured using 8d – 2³/₈-inches- long (60.3 mm) x 0.113-inch (2.9 mm) diameter ring shank, exterior nails spaced 6 inches (152 mm) on-center around the perimeter and 12 inches (305 mm) on-center in the field of the panel. Fasteners around the perimeter of the sheathing panels must be spaced 3/8-inch (9.5 mm) from the edge of the panel.

4.4.6 Two-hour Assembly—Wood Stud Load Bearing Fire-resistance rated—Interior Party Wall:

4.4.6.1 The symmetrical wall assembly must be constructed as follows (See [Figure 1](#)):

- **Framing (Both Wall Sections):** Nominal 2-inches by 4-inches wood studs, spaced maximum 16 inches (406 mm) on-center with nominal 2-inches by 4-inches wood studs spaced 12 inches (305 mm) edge to center on each end of the wall assembly. Walls studs in opposing wall must be staggered and spaced maximum 16 inches (406 mm) on-center with nominal 2-inches by 4-inches wood studs spaced 20 inches (508 mm) edge to center on each end of the wall assembly. The studs must be secured to the nominal 2-inches by 4-inches wood interior top plate and nominal 2-inches by 4-inches wood single bottom plate using 3-inch-long (76 mm) by 0.131-inches-diameter (3.3 mm) smooth shank framing nails. A second top plate must be secured on top of the interior top plate using 3-inch-long (76 mm) by 0.131-inch-diameter (3.3 mm) smooth shank framing nails spaced every 24 inches (610 mm) on center. Nominal 2-inches by 4-inches wood blocking must be installed within each stud cavity at mid-height of the wall assembly. Blocking must be staggered 3/4-inch (19.1 mm) on center from the wall assembly centerline and secured to studs using 3-inches-long (76 mm) by 0.131-inch (3.3 mm)-diameter smooth shank framing nails. Nominal 2-inches by 4-inches wood blocking must be installed flat wise at 24-inches (610 mm) on center for blocking for horizontal joints. Backing plates must be secured to the studs using 3-inches-long (76.2 mm) by 0.131-inch-diameter (3.3 mm) smooth shank framing nails. Studs between wall sections must be staggered. **Note: See Conditions of Use – Section 5.5 of this report for 100% design load requirements.**
- **Inward Wall Sheathing (Both Wall Sections):** One layer of nominal 1/2-inch-thick (12.7 mm) Douglas Fir CDX plywood with one face of the plywood overlaid with FirePoint[®] 2500 installed with the FirePoint[®] 2500 layer facing the wall studs. The sheathing must be secured to wood framing using 8d—2-inches (51 mm)-long by 0.113-inch-diameter (2.9 mm) exterior ring shank nails spaced 6 inches (152 mm) on center along the perimeter and 12 inches (305 mm) on center in the field of the wall assembly. The sheathing must be installed vertically, with horizontal joints blocked.
- **Insulation (Both Wall Sections):** Nominal 3¹/₂-inches-thick (89 mm) by 16-inches-wide (406 mm) R13 Kraft paper faced fiberglass batt insulation secured with T50, 1/2-inch (12.7 mm) crown staples spaced at 16 inches (406 mm) on-center.
- **Resilient Channel (Both Wall Sections):**
The resilient channels must be Clark Dietrich RC Deluxe (RCSD) 22 mil-thick [0.022-inch (0.56 mm)] steel by 2¹/₂-inches (63.5 mm) x 1/2-inch (12.7 mm), where the resilient channels must be spaced 24 inches (610 mm) on center and 3 inches (76.2 mm) from the top and bottom of the wall. The resilient channels must be secured horizontally to wood framing members on the outer face of both wall sections using No. 6 - 1¹/₄-inch-long (31.8 mm) Type W screws at each stud location.
- **Outer Wall Sheathing (Both Wall Sections):** One layer of 5/8-inch-thick (15.9 mm) Type X gypsum wallboard conforming to ASTM C1396 installed vertically to occupancy side of walls. Gypsum wallboard must be secured to the resilient channels with 1-inch-long (25.4 mm) Type S bugle head screws; and the screws must be spaced 6 inches (152 mm) on center horizontally along the resilient channel members. Fasteners around the perimeter of the gypsum wallboard must be spaced 3/8-inches (9.5 mm) from the edge of the panel. Gypsum wallboard seams must be treated with 2-inches-wide (51 mm) paper tape and a level 2 finish joint compound. All fastener heads must be covered with two layers of joint compound.

4.4.6.2 Sound Transmission Rating:

The wall assembly meets a minimum Sound Transmission Class (STC) of 50 in accordance with IBC Section 1206.2 or IRC Section AK102.1, as applicable. To achieve the STC rating the wall assembly must be constructed in accordance with Section 4.4.6.1 of this report, but with the following modifications:

- Wall studs must be spaced at maximum 16 inches (406 mm) on-center. Wall studs in opposing wall must be staggered and spaced at a maximum of 16 inches (406 mm) on center with nominal 2-inches by 4-inches wood studs spaced 8 inches (203 mm) edge to center on each end of the wall assembly.
- Nominal 2-inches by 4-inches wood blocking must be installed flat wise at 12 inches (305 mm) on center for blocking for horizontal joints.

5.0 CONDITIONS OF USE:

The FirePoint[®] 2500 described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 This structural system is outside the scope of this report and must be designed in accordance with the IBC or the IRC.
- 5.2 The FirePoint[®] 2500 sheathing, must be covered with a wall covering complying with the IBC or IRC, when installed as exterior sheathing.
- 5.3 Use of FirePoint[®] 2500 sheathing for applications other than those noted in Section 4.2 of this report is outside the scope of this report.
- 5.4 Use of FirePoint[®] 2500 sheathing is limited to nonclassified roof assemblies or as a component of classified roofing assembly when specifically recognized as such in a listing approved by the code official.
- 5.5 The design loads (ASD) used in testing for the load-bearing wood-framed walls noted in Section 4.4 of this report are based on the allowable axial load of the wall framing studs and support bracing (if applicable) in accordance with the NDS (National Design Specification for Wood Construction), unless noted otherwise. Sheathing was not considered in the calculation of the design loads.
- 5.6 The FirePoint[®] 2500 fire-rated sheathing is manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the [ICC-ES Acceptance Criteria for Wood Structural Panels Laminated with an Inert, Inorganic Fire Shield \(AC264\)](#), dated February 2012 (editorially revised August 2020).
- 6.2 Reports of sound transmission testing in accordance with ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.

7.0 IDENTIFICATION

- 7.1 The ICC mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5116) along with the name, registered trademark, or registered logo of the report holder (Arclin Surfaces, LLC) must be included in the product label.
- 7.2 In addition, each panel covered by this report must be identified by a stamp bearing the manufacturer's name (Arclin Surfaces, LLC), the product name, the product identification number and the manufacturer's location or mill number.

Each panel must have the grade, thickness, and span rating designation for the wood structural panels visible for field identification after lamination.

- 7.3 The report holder's contact information is the following:

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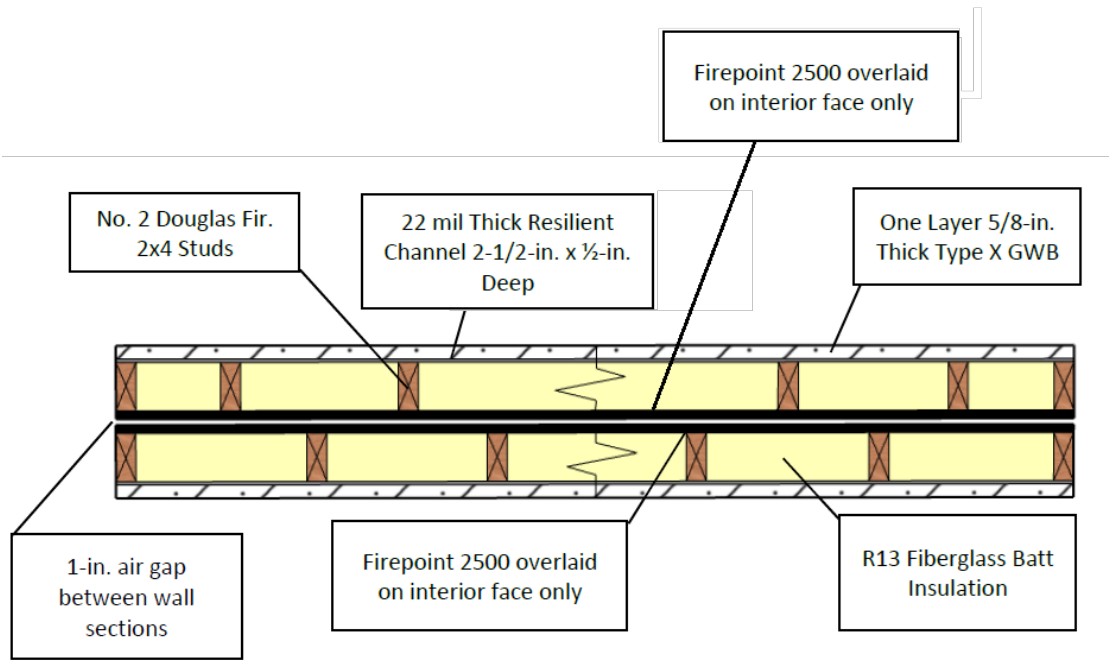


FIGURE 1 – ASTM E119 INTERIOR PARTY WALL ASSEMBLY FOR SECTION 4.4.6