



ICC-ES Listing Report

Reissued July 2024

ESL-1496

This listing is subject to renewal July 2025.

CSI: DIVISION: 06 00 00—WOOD PLASTICS AND COMPOSITES
Section: 06 05 83—Shop-Applied Wood Coatings
Section: 06 16 00—Sheathing

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: FIREPOINT® 2500

Listee: ARCLIN SURFACES LLC

Evaluation: FirePoint® 2500 is a factory-applied intumescent impregnated fiberglass reinforced overlayment adhesively bonded to Douglas Fir CDX plywood complying with US DOC PS-1. The FirePoint® 2500 sheathing is used as wall sheathing. FirePoint® 2500 sheathing was evaluated based on tested load bearing wall assemblies consisting of building-material components described below, tested in accordance with the following standard:

- ASTM E119 (-2018B and -2016), Standard Test Methods for Fire Tests of Building Construction and Materials, ASTM International.

Findings: Evaluation of the FirePoint® 2500 laminated to nominal 1/2-inch-thick (12.7 mm) Douglas Fir CDX plywood sheathing panels as components of the assembly is based on testing in accordance with the applicable test method as referenced in each assembly described below and as referenced in the applicable sections of the following code editions.

- 2021 and 2018 *International Building Code*®
Applicable Section: 703.2
- 2021 and 2018 *International Residential Code*®
Applicable Section: R301.1.3

Identification:

1. Since, at this time, there is no lamination of FirePoint 2500 to wood sheathing panels covered by this report, labeling of the products is currently not covered by this report.
2. The report holder's contact information is the following:

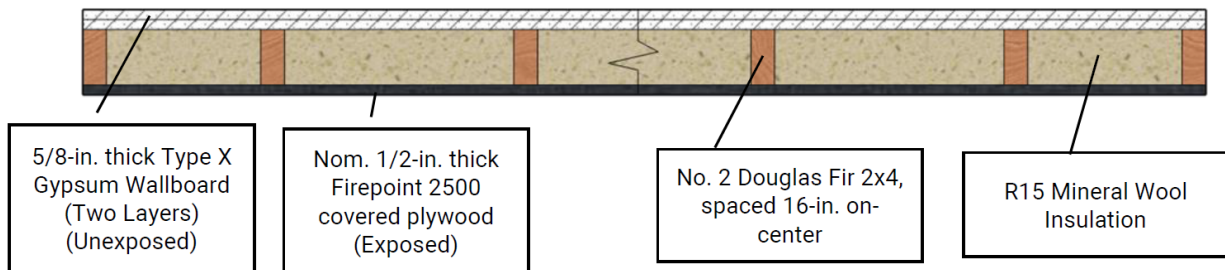
ARCLIN SURFACES, LLC
1000 HOLCOMB WOODS PARKWAY
SUITE 342
ROSWELL, GEORGIA 30076
(877) 689-9145
www.arclin.com

Installation: The wood panel sheathing laminated with FirePoint® 2500 must be installed in accordance with the applicable codes.

Conditions of listing:

1. The listing addresses only conformance with the standards and code sections noted above.
2. Approval of the product's use is the sole responsibility of the local code official.
3. The listing applies only to the materials tested and as submitted for review by ICC-ES.
4. The design loads (ASD) used in testing for the load-bearing wood-framed walls 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. FirePoint 2500 is manufactured in Tacoma Washington under a quality control program with inspections by ICC-ES.

Applicant	Arclin Surfaces LLC
Product	Single Side FirePoint® 2500 Plywood
Standard	ASTM E119
Assembly No.:	Assembly No. 1 (Asymmetrical)
Assembly Rating:	1-hour
Load	Load Bearing (100% Design Load) – See Conditions of Listing Note #4



Components of Construction:

Framing: Nominal 2-inches by 4-inches (51 mm by 102 mm) Douglas Fir 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, 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 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.

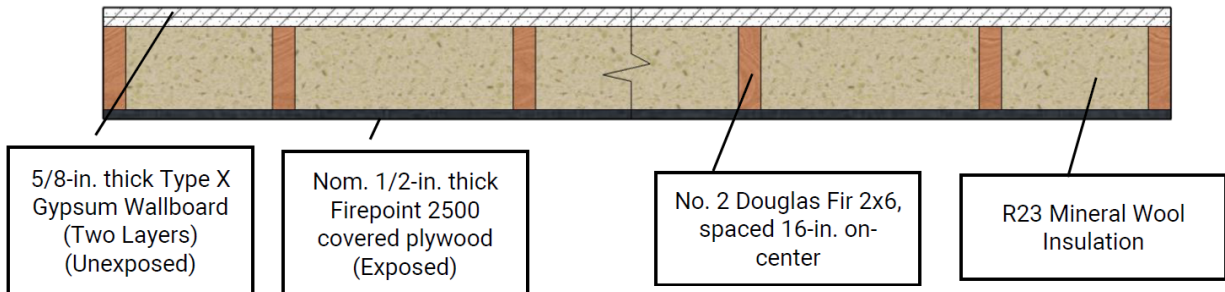
Interior Sheathing: Two layers of ⁵/₈-inch-thick (15.9 mm-thick) Type X gypsum wallboard conforming to ASTM C1396 oriented vertically with staggered seams must be secured to the framing on the interior side of the wall assembly. The base layer must be secured to the framing using ¹/₈-inches-long (41.3 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. The face layer of gypsum wallboard must be secured using 2¹/₂-inch-long (63.5 mm), No. 8 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. 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, Minimum R11 fiberglass faced batt insulation with nominal 3¹/₂-inches-thick (89 mm) by 16-inches-wide (406 mm) batts 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 Arclin Surfaces' Firepoint® 2500 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.

Applicant	Arclin Surfaces LLC
Product	Double Side FirePoint® 2500 Plywood
Standard	ASTM E119
Assembly No.:	Assembly No. 2 (Asymmetrical)
Assembly Rating:	2-hour
Load	Load Bearing (100 % Design Load) – See Conditions of Listing Note #4



Components of Construction:

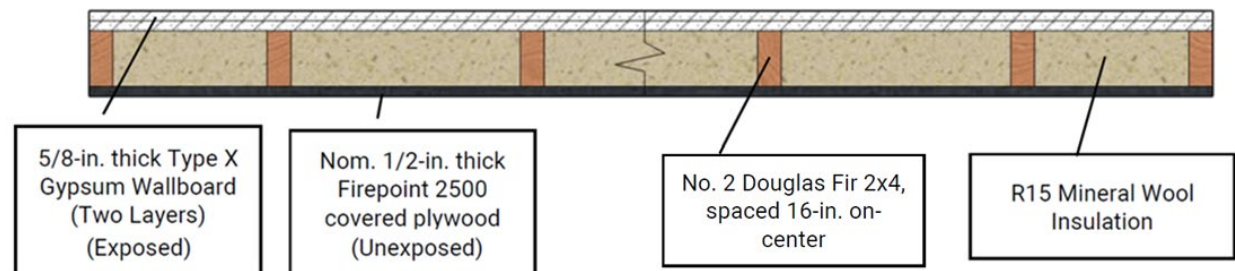
Framing: Nominal 2-inches (51 mm) by 6-inches (152 mm) Douglas Fir wood studs, spaced maximum 16 inches (406 mm) on-center secured to a double top and single bottom plates using 3-inches-long (76 mm) by 0.131-inch (3.3 mm) diameter smooth shank framing nails. Blocking must be installed 24 inches (610 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 the studs using 3 inches long (76 mm) x 0.131-inch (3.3 mm) diameter smooth shank framing nails.

Interior Sheathing: Two layers of $\frac{5}{8}$ -inch-thick (15.9 mm) Type X gypsum wallboard conforming to ASTM C1396. The base layer of the gypsum wallboard must be secured $1\frac{5}{8}$ -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 $\frac{3}{8}$ -inch (15.9 mm) from the edge of the panel. The face layer of gypsum wallboard must be secured using $2\frac{1}{2}$ -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 $5\frac{1}{2}$ -inches-thick (140 mm) by 16-inch-wide (406 mm) batts R23 mineral wool insulation friction fit within each stud cavity.

Exterior Sheathing: Nominal $\frac{1}{2}$ -inch-thick (12.7 mm) Douglas Fir CDX plywood, overlaid on both the interior and exterior face of the plywood with Arclin Surfaces' Firepoint 2500 secured using 8d - $2\frac{3}{8}$ -inches- long (60 mm) x 0.113-inch (2.9 mm) diameter ring shank, exterior nails spaced 6 inch on-center around the perimeter and 12 inch (305 mm) on-center in the field of the panel. Fasteners around the perimeter of the sheathing panels must be spaced $\frac{3}{8}$ -inch (9.5 mm) from the edge of the panel.

Applicant	Arclin Surfaces LLC
Product	Double Side FirePoint® 2500 Plywood
Standard	ASTM E119
Assembly No.:	Assembly No. 3 (Asymmetrical)
Assembly Rating:	2-hour
Load	Load Bearing (100 % Design Load) – See Conditions of Listing Note #4



Components of Construction:

Framing: Nominal 2-inches (51 mm) by 4-inches (102 mm) Douglas Fir wood studs, spaced maximum 16 inches 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 was installed 24 inches edge-to-center from the bottom top plates. 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 the studs using 3 inches long (76 mm) x 0.131-inch (3.3 mm) diameter smooth shank framing nails.

Interior Sheathing: Two layers of $\frac{5}{8}$ -inch-thick (15.9 mm) Type X gypsum wallboard to ASTM C1396. The base layer of the gypsum wallboard must be secured using $1\frac{5}{8}$ -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 $\frac{3}{8}$ -inch (9.5 mm) from the edge of the panel. The face layer of gypsum wallboard must be secured using $2\frac{1}{2}$ -inches-long (64 mm), No. 8 coarse thread, bugle head drywall screws spaced 6 inches on-center around the perimeter and 12 inches (152 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 $3\frac{1}{2}$ -inches-thick (89 mm) by 16-inches-wide (406 mm) batts R15 mineral wool insulation friction fit within each stud cavity.

Exterior Sheathing: Nominal $\frac{1}{2}$ -inch-thick Douglas Fir CDX plywood, overlaid on both the interior and exterior face of the plywood with Arclin Surfaces' Firepoint 2500 secured using 8d – $2\frac{3}{8}$ -inches- long (60.33 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 $\frac{3}{8}$ -inch (9.5 mm) from the edge of the panel.