



SECTION 06 05 73.13
FIRE RETARDENT WOOD SHEATHING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Fire-retardant wall sheathing.
- B. Fire-retardant roof sheathing.

1.2 RELATED SECTIONS

- A. Section 06 10 00 - Rough Carpentry (06 10 00) - Rough Carpentry.
- B. Section 06 20 00 - Finish Carpentry (06 20 00) - Finish Carpentry.

1.3 REFERENCES

- A. ASTM International (ASTM):
 1. ASTM E84 - Standard Test Method for Surface Burning Characteristics Building Materials.
 2. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
 3. ASTM E2768 – Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test).
- B. ICC Evaluation Service (ICC-ES)
 1. ICC-ES Acceptance Criteria for Wood Structural Panels Laminated with an Inert, Inorganic Fire Shield (AC264)

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data:
 1. Product brochure indicating suitable applications, certifications and attributes.
 2. Assembly guide showing the orientation and sequence of the specific materials called out in our ESR.
 3. Technical guide documenting storage, handling and general installation and also covers the correct application for the product.
 4. Test reports: Certified test reports from industry leading 3rd party laboratories indicating performance with regards to fire, structural and sound requirements.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Product manufactured directly by the developer and owner of the patented technology, or an approved licensee, thus providing the highest level of QC and uniformity.
- B. Installer Qualifications: Company experienced in working in their respective discipline(s) for at least 3 years, with the ability to provide a reference of completed projects that are similar in size and detail.
- C. Final product to be legibly marked with stamps illustrating compliance with certification criteria.
- D. Regulatory Requirements: Provide complete product to be used in fire rated assemblies that comply with the following:
 - 1. International Building Code (IBC).
 - 2. International Residential Code (IRC).
 - 3. International Code Council Evaluation Service ICC-ES ESR 5116
- E. Product is an engineered structural wood panel with multiple layers that are permanently bonded together with engineered resins.
- F. Weather testing: Product tested by a third party ICC lab after extended duration in an exterior environment and maintains not only the same appearance, but also the same fire resistance following ASTM E-119 testing.
- G. Independent Third Party Inspection: Provide plant inspections.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Store and handle according to manufacturer's instructions.
- B. Product can handle normal construction delays, equivalent to the Exposure 1 rating of the plywood substrate portion of the engineered panel.

1.7 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard (20) year limited warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Arclin, which is located at 1150 Sanctuary Pkwy, Suite 100 Alpharetta, GA 30009; Tel: 404-334-6833; Email: firepoint.sales@arclin.com; Web: firepoint.arclin.com
- B. Substitutions: Not permitted.

- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 PERFORMANCE REQUIREMENTS

- A. Flame Spread and Smoke Developed Performance:
 - 1. Flame Spread: Less than 25 when tested in accordance with ASTM E84, UL 723, or NFPA 255.
 - 2. Smoke Developed: Less than 100 when tested in accordance with ASTM E84, UL 723, or NFPA 255.
 - 3. Advance of Flame: Not to exceed 10.5 feet (3200 mm) after 30 minute test duration.
- B. Structural Performance:
 - 1. Meet or exceed structural or Exposure 1 requirements for Category indicated.
 - 2. Meet or exceed bond durability and weather resistance requirements of ICC Acceptance Criteria AC264.
- C. Acoustical Performance:
 - 1. Partition walls between dwellings can meet premium STC values above 55 without needing to use mineral wool or high density fiberglass (3rd party lab results available).

2.3 FIRE-RETARDANT WALL SHEATHING

- A. Basis of Design: Arclin FirePoint; as manufactured by Arclin. Fire-rated Plywood sheathing certified to meet and exceed building code requirements for fire resistant construction, while providing best in class resistance to the elements through stable materials as illustrated by ICC testing labs (3rd party test results available on demand).
 - 1. Exterior Wall Sheathing:
 - a. Coated 2 sides as per assembly guide.
 - b. Coated 1 side as per assembly guide.
 - 2. Interior Wall Sheathing:
 - a. Coated 2 sides as per assembly guide.
 - b. Coated 1 side as per assembly guide.

2.3 FIRE-RETARDANT ROOF SHEATHING

- A. Basis of Design: Arclin FirePoint; as manufactured by Arclin. Fire-rated Plywood sheathing certified to meet and exceed building code requirements for fire resistant construction, while providing best in class resistance to the elements through stable materials as illustrated by ICC testing labs (3rd party test results available on demand).
 - 1. Roof Sheathing:
 - a. Coated one side.

- b. Coated side face down as per code.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's installation guidelines and current updated Technical Guide (downloaded via manufacturer's website)
- B. Install product as per approved project drawings, staying within tolerances for allowable load-span tables for APA Structural-Use Panels
- C. Install product in accordance with current local building codes and AHJ