



FLAMEBLOCK[®]
FIRE-RATED OSB SHEATHING

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This MANU-SPEC[®] utilizes the Construction Specifications Institute (CSI) Project Resource Manual (PRM), including MasterFormat[™], SectionFormat[™] and PageFormat[™]. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate trademark and registration symbols, product model numbers, styles and types are used in Specifier Notes and in the specification text Article titled "Acceptable Material." Trademark and registration symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies LP FlameBlock as manufactured by LP - Building Products. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI MasterFormat for other section numbers and titles.

SECTION 06 08 00
FACTORY-APPLIED WOOD COATINGS
(FIRE RESISTANT SHEATHING)

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: wall, roof, and soffit sheathing

Specifier Note: Revise paragraph below to suit project requirements. Add section numbers and titles per CSI MasterFormat and specifier's practice.

- B. Related Sections:
 1. Section 06 10 00 Rough Carpentry.
 2. Section 06 02 00 Finish Carpentry.

1.02 REFERENCES

- A. 1.3.2 ASTM International, Reference Standards:
 1. 1.3.2.1 ASTM E 84-01, Standard Test Method for Surface Burning Characteristics of Building Materials.
 2. 1.3.2.2 ASTM E 108-00, Standard Test Methods for Fire Tests of Roof Coverings.
 3. 1.3.2.2 ASTM E 119-00a, Standard Test Methods for Fire Tests of Building Construction and Materials.
 4. 1.3.2.4 ASTM D 5516-99a, Standard Test Method for Evaluating the Flexural Properties of Fire Retardant Treated Softwood Plywood Exposed to Elevated Temperatures.
 5. 1.3.2.5. ASTM D 6305-9801, Standard Practice for Calculating Bending Strength Design Adjustment Factors for Fire-Retardant-Treated Plywood Roof Sheathing.
 6. 1.3.3 NFPA 286-00, Standard Test Method of Fire Test for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth, National Fire Protection Association.
 7. 1.3.4 UL 790-97, Standard for Tests for Fire Resistance of Roof Covering Materials—with Revisions through July, 1998.
 8. 1.3.5 UL 1715-97, Standard for Fire Test for Interior Finish Material, Underwriters Laboratories Inc.
 9. 1.3.6 UBC 26-2, Test Method for the Evaluation of Thermal Barriers, 1997 Uniform Building CodeTM.
 10. 1.3.7 ICC-ES Acceptance Criteria for Foam Plastic Insulation (AC12).
- B. Canadian Construction Materials Centre (CCMC):
 1. Underwriters laboratories
 - a. UL 723 Standard for Surface Burning Characteristics of Building Materials

- C. California Office of the State Fire Marshall
 - 1. Exterior Wall Siding and Sheathing SFM Standard 12-7A-1
 - 2. Under Eave SFM Standard 12-7A-3

1.03 SUBMITTALS

- A. General: Submit listed submittals in accordance with Contract Conditions and Section 01 33 00 - Submittal Procedures.
- B. Product Data: Submit the following for specified products:
 - 1. Product data, including manufacturer's data sheet, for specified products.
 - 2. Manufacturer's installation instructions.
 - 3. Material Safety Data Sheets (MSDS).
- C. Test Reports: Certified test reports from recognized testing laboratories showing compliance with specified structural fire sound and performance characteristics and physical properties.
- F. Evaluation Report: ICC-ESR1365
- G. Closeout Submittals:
 - 1. Warranty: Submit warranty documents specified.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria that establish an overall level of product and workmanship quality for this section. Coordinate article below with Division 01 Quality Assurance Section.

1.04 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer:
 - a. Has a minimum 15 years experience manufacturing components similar to or exceeding requirements of project.
 - b. Has sufficient capacity to produce and deliver required materials without causing delay in work.
 - 2. Installer:
 - a. Experienced in performing work of this section and who has specialized in installation of work similar to that required for this project.
 - b. Acceptable to the manufacturer.

Specifier Note: Retain the following Paragraph when certification related to sustainability submittals is a project requirement.

- B. Sustainability Standards Certification: Provide certification for [_____] materials certified by [insert certification organizations name] in accordance with [certification organizations standard].

1.05 DELIVERY, STORAGE & HANDLING

- A. Delivery and Acceptance Requirements:
 - 1. Deliver material in accordance with Section 01 61 00 - Common Product Requirements and in accordance with manufacturer's written instructions.
- B. Storage and Handling Requirements:
 - 1. Store materials protected from exposure to harmful weather conditions.
 - a. Keep materials dry and store on a hard, dry, level surface not in contact with the ground.
 - b. Store materials in wrapped and strapped bundles stacked no more than 10 feet (3 m) high.
 - c. Support bundles to prevent excessive bowing. Support and separate bundles with 2 x 4 or larger dimension lumber spaced no more than 4 feet apart.
 - 2. Handle individual pieces in a manner to prevent physical damage during measuring, cutting and installation.
- C. Packaging Waste Management:

Specifier Note: The disposal of packaging waste into landfill sites demonstrates an inefficient use of natural resources and consumes valuable landfill space. Specifying appropriate packaging and construction waste management and disposal procedures may contribute to points required for USGBC's LEED® construction project certification.

Specifier Note: Include the following Articles to specify information that will provide direction to the Contractor for the disposal of construction waste materials using environmentally responsible methodology other than landfill resources.

1. Separate waste materials for [reuse] [and] [recycling] in accordance with [Section 01 74 19 - Construction Waste Management and Disposal].

Specifier Note: USGBC's LEED® certification includes credits for the diversion of construction waste from landfill. Diversion can be tracked by either weight or volume but must be consistent for all materials. Manufacturer may reclaim packaging and delivery materials for recycling.

2. Remove packaging materials from site and dispose of at appropriate recycling facilities.
3. Collect and separate for disposal [paper] [plastic] [polystyrene] [corrugated cardboard] packaging material [in appropriate onsite bins] for recycling.
4. Fold metal and plastic banding, flatten and place in designated area for recycling.

Specifier Note: Add additional Subparagraphs to include pallets, crates, padding and other packing materials that are typically associated with the specified products.

1.06 WARRANTY:

- A. Refer to Contract Conditions and Section [01 78 36 - Warranties] for project warranty provisions
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and does not limit, other rights Owner may have under other Contract Documents.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 FIRE-RESISTANT SHEATHING

Specifier Note: Paragraph below is an addition to CSI SectionFormat and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

- A. Manufacturer: LP - Building Products.
 1. Contact: 414 Union St., Nashville, TN 37219; Telephone: (800) 999-9105, (910) 762-9878; Fax: (910) 763-8178; E-mail: customer.support@lpcorp.com; website: www.lpcorp.com.

Specifier Note: If a Division 01 Section covers substitutions on a project-wide basis, do not repeat the requirement here. Do not include substitution procedures here unless they are not defined elsewhere.

2. Single Source Responsibility: Provide components and materials specified in this section from a single manufacturer.
3. Substitution Limitations: No substitutions permitted

Specifier Note: Include an overall description of the system, assembly, product or material. Include required properties or characteristics that do not obviously belong under other titles. Examples: configuration, size and color.

- B. Description and Performance Requirements: Oriented Strand Board with a proprietary, fire-resistant coating, produced and applied by Barrier Technology Corporation, Watkins, MN. Panels meet the following minimum standards:
 1. Flamespread and Smoke Developed Performance:
 - a. Panels shall exhibit a flamespread rating of less than 25 and a smoke developed index of less than 100 when tested on the coated side in a standard 10-minute test in accordance with ASTM E84, UL 723, or NFPA 255. Advance of flame shall not exceed 10.5 feet after extending test to 30 minute duration.
 - b. Each panel shall bear a Underwriters Laboratories (UL) and Omega Point Laboratory (OPL) classification and inspection stamp.
 - c. Coated panels in Category 15/32 and higher shall exhibit a thermal barrier index of at least 20 minutes when tested in accordance with ASTM E-119, UBC 26.2 or UL 1715.
 2. Structural Performance and Durability:
 - a. Panels in each Performance Category (formerly called Thickness Category) shall meet or exceed the structural and Exposure 1 requirements described in the manufacturer's specifications, as well as the properties for structural panels described in US Voluntary Product Standard PS2-04.

- b. Panels shall meet or exceed the bond durability and weather resistance requirements of all tests described in ICC Acceptance Criteria AC264.
- c. Each panel shall bear a Progressive Engineering Inc (PEI) stamp as certification of compliance with the AC264 criteria and PS2-04 standards.
- d. Each panel shall bear a stamp describing the Performance Category (formerly called Thickness Category) and span rating of the panel.

2.02 RELATED MATERIALS

- A. Wood materials: Refer to Division 6 Sections for information on related wood framing materials.
- B. Fasteners: Use code-compliant fasteners as specified in shop drawings and manufacturer’s installation guide. LP FlameBlock is non-corrosive, and does not require corrosion-resistant fasteners.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify that conditions of substrates previously installed under other sections or contracts are acceptable for product installation in accordance with manufacturer’s instructions prior to installation of [describe product].

3.02 PREPARATION

Specifier Note: Specify preparatory work, such as selective removal of existing work, required prior to execution of new work. Specify requirements for exposure or removal of existing assemblies, components, products or materials.

3.03 INSTALLATION

- A. Coordinate installation of LP Flameblock in accordance with Section [01 73 00 - Execution] and Section [01 73 19 - Installation].
- B. Coordinate installation of LP FlameBlock with work of other trades for proper time and sequence to avoid construction delays.
- C. Compliance: Comply with manufacturer’s written data, including product technical bulletins, product catalog installation instructions, product carton installation instructions and approved shop drawings.
 - 1. Accurately fit, align, securely fasten and install free from distortion or defects.
 - 2. Impose no loads other than the weight of the erectors on the structure before it is permanently sheathed.
 - 3. Exercise caution when removing temporary bracing to apply sheathing.
 - 4. After sheathing, do not exceed design loads on members with construction materials.

3.04 FINISHING

- A. Perform cleanup in accordance with Section [01 74 00 - Cleaning and Waste Management] and Section [01 74 13 - Progress Cleaning].
- B. Upon completion, remove surplus materials, rubbish, tools and equipment.

Specifier Note: Specify special measures needed to minimize waste, collect recyclable waste and dispose of or recycle field-generated construction waste created during demolition, construction or final cleaning.

3.05 CLEANING

- A. Product may be painted with commonly available latex and oil-based paints.
- B. Product may be coated with mold inhibitors or other protectants. Check with manufacturer prior to application to verify compatibility with OSB substrate and fire-resistant coating.

3.06 PROTECTION

Specifier Note: Coordinate the following Article with Section 01 76 00 - Protecting Installed Construction.

- A. Protect installed product from damage during and after construction in accordance with Section [01 76 00 - Protecting Installed Construction] [_____].
- B. Repair damage to adjacent materials caused by LP FlameBlock installation.
- C. [_____].

END OF SECTION