

SECTION 06071
INTERIOR FIRE RETARDANT TREATED WOOD
FINISHED and UNFINISHED EXPOSED LUMBER

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Fire Retardant treatment of lumber and plywood
- B. Fire Retardant treatment of wood trim and moldings
- C. Fire Retardant Treatment of Wainscot and Paneling
- D. Fire Retardant Treatment of Cabinets

1.2 RELATED SECTIONS

- A. Section 06100 – Rough Carpentry
- B. Section 06114 – Wood Blocking and Curbing
- C. Section 06200 – Finish Carpentry
- D. Section 06400 – Architectural Woodwork

1.3 REFERENCES

- A. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials
- B. NFPA 255 – Standard Test Method for Surface Burning Characteristic of Building Materials
- C. U.L. 723 – Standard Test Method for Surface Burning Characteristics of Building Materials
- D. NFPA 703 – Standard for Fire Retardant Treated Wood and Fire Retardant Coatings for Building Materials

1.4 SUBMITTALS

- A. Submit under provisions of Section 03100 – Submittal Procedures
 - Product Data: Manufacturers printed product information including:
 - Preparation instructions and recommendations
 - Storage and handling instructions
 - Application methods

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer shall be a firm engaged in the manufacture of the fire retardant treatment type required, and whose products have been in satisfactory use in similar service for a minimum of fifteen years.
- B. Applicator Qualifications: Applicator shall be a firm experienced in the installation of fire retardant treatments similar in type and scope to that required for this project and is certified by the manufacturer for installation of the product specified.
- C. Fire Retardant: Manufacturing of the fire retardant shall be listed under a quality control inspection program as administrated by Underwriters Laboratories Inc. or Underwriters Laboratories of Canada and all containers of the fire retardant shall bear the Underwriters Laboratories Classification Mark.
- D. Regulatory Requirements: Provide fire retardant treatment that complies with the following codes and regulatory requirements
 - 1. ICC Code 2012
 - 2. 2012 NFPA Life Safety Code
 - 3. 2012 International Fire Code (IFC)
 - 4. 2012 International Existing Building Code (IEBC)
 - 5. 2012 International Building Code (IBC)
 - 6. 2012 International Residential Code (IRC)

1.6 DELIVERY, STORAGE AND HANDLING

- A. Store fire retardant in original containers between minimum ambient air temperature of 33 F (0.6 C) and a maximum of 120 F (49 C).
- B. For lumber treated off-site in new construction prevent exposure to precipitation during shipping, storage or installation of fire retardant treated lumber. Store materials under cover or shelter, off the ground.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Provide fire retardant treatment by or Certified Applicators of International Fire-Shield, Inc, P.O. Box 7305, Auburn, NY 13022; Toll Free Tel: 800-513-5134; Tel: 315-255-1006; E-mail: nyfsinc@nyfs.com
Web: nyfs.com
- B. Substitutions: Not permitted
- C. Requests for substitutions for products bearing the Underwriters Label will be considered in accordance with the provisions of Section 01600.
- D. Requests for substitutions for products will be considered providing the product bears the label of an Independent 3rd Party Quality Control Laboratory listed and qualified in good standing with ICC IAC (International Accreditation Service) for Quality Control of the Manufacturing of Fire Retardants for the requested product, acceptable to the Authority Having Jurisdiction.

2.2 MATERIALS

A. Fire Retardant Treatment

1. Product: Provide treatment with “1500° Series FRV Class “A” Polyurethane Varnish” as manufactured by International Fire-Shield, Inc.
2. Product shall be listed as having a Flame Spread of 15 and Smoke Developed rating of 50 when tested in accordance with ASTM E-84 (NFPA 255).

PART 3 EXECUTION

3.1 EXAMINATION FOR FIELD TREATMENT

- A. Do not begin application until substrates have been properly prepared or environmental conditions are outside of the Manufacturers absolute limits.
- B. Examine for wet conditions; do not apply product to substrates that are wet or have been wet, unless they can be dried to the maximum moisture content as specified by the manufacturer

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to application of fire retardant
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 FIELD CUTTING TREATED LUMBER

- A. Field cutting of previously treated lumber for required lengths, drilled holes or notching shall have exposed lumber areas recoated in the ripping or milling of lumber after treatment must be re-treated by the certified applicator

3.4 PRODUCT APPLICATION

A. Previously coated substrates that have a conventional coating applied (including paneling) shall be cleaned with mineral spirits to remove dust, dirt, wax and oil. Any loose peeling or powdery varnish shall be removed from the surface prior to treatment. Repair all cracks, holes and other surface irregularities. Allow to dry, sand lightly. All glossy or smooth surfaces should be dulled with sandpaper or steel wool. Apply a small patch of FRV to previously coated item allow to dry and check for lifting and adhesion. If coatings are compatible proceed with application of FRV. If lifting of previous applied coating occurs or FRV does not adhere it will be necessary to remove previous coating. Unfinished substrates should be sealed with NO. 6 Clear Wood sealer prior to Application of 1500° Series FRV. Pre finished wood

paneling may require that the grooved areas be sealed prior to application of 1500° Series FRT as many manufacturers . only stain these areas. Thoroughly mix product before application. Apply product at a coverage rate of 300 square feet per gallon by brush, foam roller, airless or conventional-spray apparatus. Allow the surface to dry a minimum of 16 hours or until hard. Then apply another coat as above. Two coats are required. Apply product when air temperature is between 50 F (0.6 C) and 120 F (49 C). Surfaces that will be subjected to handling, washing, or where a low, semi or high gloss finish is desired must be over-coated with 1500° Series FRT Topcoat. Allow 48 hours of dry time of second coat of 1500° Series FRV before applying Topcoat. The maximum moisture of the substrate to be treated prior to application of product shall not exceed 25 percent. In field applications, certified applicator shall perform field testing when required by the authority having jurisdiction. Fire retardant treated substrates delivered to the field or treated after installation shall be labeled with a permanent ink marking as follows:

- a. Product Manufacturer's Name or Certified Applicators Name
- b. Date of Treatment
- c. Certificate of Fire Resistance Tracking and Tag Number
- d. Meets NFPA 703 Class "A" Finish

3.5 SURFACE BURNING CHARACTERISTICS

- A. The product shall provide a flame spread index of 25 or less and a smoke-developed index of 200 or less when tested in accordance with ASTM E-84 and qualify as a Class "A" finish in accordance with NFPA 703

3.6 CONFORMANCE CERTIFICATION

- A. The manufacturer shall provide written Certification for the substrates treated for meeting the required code of the Authorities Having Jurisdiction.

END OF SECTION