

NFPA 703
Fire Retardant
Impregnated
Wood and
Fire Retardant
Coatings for
Building
Materials
1985



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The Board of Directors reaffirms that the National Fire Protection Association recognizes that the toxicity of the products of combustion is an important factor in the loss of life from fire. NFPA has dealt with that subject in its technical committee documents for many years.

There is a concern that the growing use of synthetic materials may produce more or additional toxic products of combustion in a fire environment. The Board has, therefore, asked all NFPA technical committees to review the documents for which they are responsible to be sure that the documents respond to this current concern. To assist the committees in meeting this request, the Board has appointed an advisory committee to provide specific guidance to the technical committees on questions relating to assessing the hazards of the products of combustion.

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NFPA 703

Standard for

Fire Retardant Impregnated Wood and Fire Retardant Coatings for Building Materials

1985 Edition

This edition of NFPA 703, *Standard for Fire Retardant Impregnated Wood and Fire Retardant Coatings for Building Materials*, was prepared by the Technical Committee on Building Construction, released by the Correlating Committee on Building Construction, and acted on by the National Fire Protection Association, Inc. at its Annual Meeting held May 13-17, 1985 in Chicago, Illinois. It was issued by the Standards Council on June 6, 1985, with an effective date of June 26, 1985, and supersedes all previous editions.

The 1985 edition of this standard has been approved by the American National Standards Institute.

Changes other than editorial are indicated by a vertical rule in the margin of the pages on which they appear. These lines are included as an aid to the user in identifying changes from the previous edition.

Origin and Development of NFPA 703

At a 1957 meeting in New York City, the Committee on Flameproofing and Preservative Treatments undertook to develop a Standard for Flameproofing of Wood. Since that meeting the Fire Retardant Coating Industry has expanded considerably, and it is obvious that fire retardant admixtures of plastics and other building materials will require coverage by standard. Thus, the Committee, in its many subsequent meetings, reexamined its approach and expanded the standard to cover all fire retardant treatments.

The standard was tentatively adopted by the 1960 Annual Meeting and was submitted for final adoption at the 1961 Annual Meeting.

The 1979 edition of NFPA 703, *Fire Retardant Impregnated Wood and Fire Retardant Coatings for Building Materials*, superseded the previous 1961 edition. The change in title was necessary to more adequately cover the subjects included in the text of the standard. The principal changes in the 1979 edition included improved definitions for fire retardant coatings.

This 1985 edition includes the addition of a new Chapter 4 which lists referenced publications whose use is mandated within this standard.

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Contents

Chapter 1 General	703-4
1-1 Scope	703-4
1-2 Definitions	703-4
Chapter 2 Fire Retardant Impregnated Wood	703-4
2-1 Application	703-4
2-2 Definitions	703-4
2-3 General	703-4
2-4 Tests	703-4
2-5 Identification	703-4
Chapter 3 Fire Retardant Coatings for Building Materials	703-4
3-1 Application	703-4
3-2 Definitions	703-5
3-3 General	703-5
3-4 Tests	703-5
3-5 Maintenance of Protection	703-5
3-6 Identification	703-5
Chapter 4 Referenced Publications	703-5
Appendix A Referenced Publications	703-5

NFPA 703
Standard for
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Information on referenced publications can be found in Chapter 4 and Appendix A.

Chapter 1 General

1-1 Scope. This standard provides criteria for defining and identifying fire retardant impregnated wood and fire retardant coated building materials.¹

1-2 Definitions.

Authority Having Jurisdiction. The "authority having jurisdiction" is the organization, office or individual responsible for "approving" equipment, an installation or a procedure.

NOTE: The phrase "authority having jurisdiction" is used in NFPA documents in a broad manner since jurisdictions and "approval" agencies vary as do their responsibilities. Where public safety is primary, the "authority having jurisdiction" may be a federal, state, local or other regional department or individual such as a fire chief, fire marshal, chief of a fire prevention bureau, labor department, health department, building official, electrical inspector, or others having statutory authority. For insurance purposes, an insurance inspection department, rating bureau, or other insurance company representative may be the "authority having jurisdiction." In many circumstances the property owner or his designated agent assumes the role of the "authority having jurisdiction"; at government installations, the commanding officer or departmental official may be the "authority having jurisdiction."

Labeled. Equipment or materials to which has been attached a label, symbol or other identifying mark of an organization acceptable to the "authority having jurisdiction" and concerned with product evaluation, that maintains periodic inspection of production of labeled equipment or materials and by whose labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner.

Chapter 2 Fire Retardant Impregnated Wood

2-1 Application. These requirements apply to pressure impregnation treatments that reduce certain burning characteristics of wood. Other approved methods of impregnation, providing at least equal performance, are also acceptable.

¹Fire resistance ratings measured on an hourly basis are not covered in this standard. To establish such ratings, tests should be made in accordance with NFPA 251, *Standard Methods of Fire Tests of Building Construction and Materials*.

2-2 Definitions.

Fire Retardant Impregnated Wood. Lumber and plywood that has been impregnated by an approved process with fire retardant chemicals and demonstrates one of the following classes:

Fire Retardant Treated Wood. A special class of fire retardant impregnated wood that has a flame spread rating of 25 or less with no evidence of significant progressive combustion when tested for 30 minutes duration by the test listed in Section 2-4. In addition, the flame front does not progress more than 10½ ft (3.2 m) beyond the centerline of the burner at any time during the test.

Class A Fire Retardant Impregnated Wood has a flame spread rating of 25 or less when tested for 10 minutes duration by the test listed in Section 2-4.

Class B Fire Retardant Impregnated Wood has a flame spread rating of greater than 25 but not more than 75 when tested for 10 minutes duration by the test listed in Section 2-4.

2-3 General.

2-3.1 Where fire retardant impregnated wood is to be subjected to sustained humidity of 80 percent or more or exposure to the weather, certification by a testing laboratory must indicate that there is no increase in listed classification when subjected to the "Standard Rain Test" described in ASTM D-2898, *Test Method for Accelerated Weathering of Fire Retardant-Treated Wood for Fire Testing*.

2-3.2 Fire retardant impregnated lumber and plywood shall be dried after treatment to a moisture content not to exceed 19 percent for lumber and 15 percent for plywood.

2-4 Tests. Fire retardant impregnated treated wood shall be tested by NFPA 255, *Standard Method of Test of Surface Burning Characteristics of Building Materials* (UL 723, ASTM E-84).²

2-5 Identification. Fire retardant impregnated lumber and plywood shall be labeled (see definition of "Labeled" in Chapter 1) to indicate performance with the preceding requirements.

Chapter 3 Fire Retardant Coatings for Building Materials

3-1 Application. These requirements apply to fire retardant coatings such as paints and other surface coatings used to reduce certain burning characteristics of building materials.

²Under the criteria of NFPA 255, the flame spread rating is expressed numerically on a scale for which the zero point is fixed by the performance of asbestos-cement board and the 100 point is fixed by the performance of untreated red oak flooring.

3-2 Definitions.

Fire Retardant Coating. A coating that reduces the flame spread of Douglas Fir and all other tested combustible surfaces to which it is applied at least 50 percent or to a flame spread classification value of 75 or less, whichever is the lesser value, and has a smoke developed rating not exceeding 200.

Class A Fire Retardant Coating. As applied to building materials, shall reduce the flame spread to 25 or less and have a smoke developed rating not exceeding 200.

Class B Fire Retardant Coating. As applied to building materials, shall reduce the flame spread to greater than 25 but not more than 75 and have a smoke developed rating not exceeding 200.

3-3 General.

3-3.1 Fire retardant coatings shall remain stable and adhere under all atmospheric conditions to which the material is exposed.

3-3.2 A fire retardant coating shall not be used for unprotected outdoor installations unless labeled for such installations.

3-3.3 The classification of fire retardant coatings is applicable only when the coating is applied at the rates of coverage and to the type or kind of surfaces indicated on the test report when the coating is applied in accordance with the directions supplied by the manufacturer with the container.

3-3.4 These coatings shall be applied in accordance with the manufacturer's direction.

3-3.5 The authority having jurisdiction may require that the application be certified by the applicator as being in conformance with the manufacturer's direction for application.

3-3.6 Fire retardant coating shall not be overcoated with any coating unless both the fire retardant coating and the overcoat have been tested as a system and are found to meet the requirements of Section 3-2.

3-4 Tests.

3-4.1 Fire retardant coatings shall be tested by NFPA 255, *Standard Method of Test of Surface Burning Characteristics of Building Materials* (UL 723, ASTM E-84).¹

3-4.2 Where fire retardant coatings are to be subjected to sustained humidity of 80 percent or more or exposure to the weather, certification by a testing laboratory must indicate that there is no increase in listed classification when subject to the "Standard Rain Test" described in ASTM D-2898, *Test Method for Accelerated Weathering of Fire Retardant-Treated Wood for Fire Testing*.

3-5 Maintenance of Protection. Fire retardant coatings shall possess the desired degree of permanency and shall be maintained so as to retain the effectiveness of the treatment under the service conditions encountered in actual use.

3-6 Identification.

3-6.1 Each container of fire retardant coating material shall be labeled to indicate conformance with the preceding requirements and shall include the manufacturer's instructions for application.

Chapter 4 Referenced Publications

4-1 The following documents or portions thereof are referenced within this standard and shall be considered part of the requirements of this document. The edition indicated for each reference is current as of the date of the NFPA issuance of this document. These references are listed separately to facilitate updating to the latest edition by the user.

4-1.1 NFPA Publication. National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

NFPA 255-1984, *Standard Method of Test of Surface Burning Characteristics of Building Materials* (UL 723, ASTM E-84)

4-1.2 Other Publication.

American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

ASTM D-2898-1981, *Test Method for Accelerated Weathering of Fire Retardant-Treated Wood for Fire Testing*

Appendix A Referenced Publications

A-1 The following documents or portions thereof are referenced within this standard for informational purposes only and thus should not be considered part of the requirements of this document. The edition indicated for each reference is current as of the date of the NFPA issuance of this document. These references are listed separately to facilitate updating to the latest edition by the user.

A-1.1 NFPA Publication. National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

NFPA 251-1985, *Standard Methods of Fire Tests of Building Construction and Materials*

¹The flame spread rating is expressed numerically on a scale for which the zero point is fixed by the performance of asbestos-cement board and the 100 point is fixed by the performance of red oak flooring.

Bibliography of NFPA Standards

- 1 Fire Prevention Code
- 10 Portable Extinguishers
- 10L Model Enabling Act
- 11 Foam Ext. Systems
- 11A Medium and High Expansion Foam Syst.
- 11C Mobile Foam Apparatus
- 12 Carbon Dioxide Systems
- 12A Halon 1301 Systems
- 12B Halon 1211 Systems
- 12CT Halon 2402 Systems
- 13 Sprinkler Systems
- 13A Sprinkler Maintenance
- 13D Sprinkler Sys., Dwellings
- 13E Sprinkler Prop., F.D. Operations at
- 14 Standpipe, Hose Systems
- 15 Water Spray Fixed Syst.
- 16 Deluge Foam-Water Systems
- 16A Closed Head Foam-Water Sprinkler Sys.
- 17 Dry Chem. Ext. Systems
- 18 Wetting Agents
- 20 Centrifugal Fire Pumps
- 21 Steam Fire Pumps
- 22 Water Tanks
- 24 Private Fire Service Mains
- 26 Sup'v'n, Water Supply Valves
- 27 Private Fire Brigades
- 291 Fire Hydrants
- 295 Wildfire Control
- 30 Flam. Liquids Code
- 30A Automotive and Marine Service Station Code
- 31 Oil Burning Equipment
- 32 Drycleaning Plants
- 321 Class. Flam. Liquids
- 325M Prop. Flam. Liquids
- 327 Cleaning Small Tanks
- 328 Manholes, Sewers, Flam. Liquids and Gases in
- 329 Underground Leakage, Flam. Liquid Tanks
- 33 Spray Application
- 34 Dipping and Coating Processes
- 35 Mfg. Organic Coatings
- 36 Solvent Extraction
- 37 Combustion Engines
- 385 Tank Vehicles
- 386 Portable Shipping Tanks
- 395 Farm Stg. Flam. Liquids
- 40 Motion Picture Film
- 40E Pyroxylin Plastic
- 43A Liquid, Solid Oxidizing Materials
- 43C Gaseous Oxidizing Materials
- 43D Pesticides in Port. Containers
- 45 Labs Using Chemicals
- 46 Forest Products, Storage
- 48 Magnesium
- 481 Titanium
- 482 Zirconium
- 49 Hazardous Chem. Data
- 490 Ammonium Nitrate
- 491M Chem. Reactions
- 493 Intrinsically Safe Apparatus
- 495 Explosives, Stge., Use
- 496 Purged Enclosures
- 497 Class. of Class I Haz. Locations for Elec. Inst.
- 497M Class of Gases, Vapors, Dusts for Elec. Equip. in Haz. (Classified) Locations
- 498 Explosives, Motor Term.
- 50 Bulk Oxygen Systems
- 50A Gaseous Hydrogen Syst.
- 50B LH-Syst., Consumer Sites
- 51 Welding and Cutting
- 51A Acetylene Charging Plants
- 51B Welding Processes
- 52 CNG Vehicular Fuel Systems
- 53M Oxy. Atmospheres
- 54 Nat'l Fuel Gas Code
- 56F Nonflammable Medical Gases
- 56HM Home Respiratory Therapy
- 58 LP-Gas Storage, Use
- 59 LP-Gas, Utility Plants
- 59A LN-Gas, Stg., Handling
- 61A Starch, Mfg. Handling
- 61B Grain Elevators
- 61C Feed Mills
- 61D Agricultural Commodities
- 65 Aluminum Processing
- 650 Pneumatic Conveying Sys.
- 651 Aluminum, Magnesium Powder
- 654 Plastics, Expl. Prevent.
- 655 Sulfur Fires
- 664 Wood Processing, Woodworking
- 68 Explosion Venting
- 69 Explosion Prev. Syst.
- 70 Nat'l Electrical Code*
- 70A Dwelling Electrical Code
- 70B Elect. Equip. Maint.
- 70E Employee Electrical Safety
- 70L Inspection of Elect. Installations
- 71 Central Station Sig.
- 72A Local Protective Syst.
- 72B Auxiliary Sig. System
- 72C Remote Station System
- 72D Proprietary Sig. Syst.
- 72E Auto. Fire Detectors
- 72F Emergency Voice/Alarm Comm. Sys.
- 72G Notification Appliances for Prot. Sig. Sys.
- 72H Testing Prot. Sig. Sys.
- 74 Household Warning Equip.
- 75 Electronic Computer Syst.
- 77 Static Electricity
- 78 Lightning Prot. Code
- 79 Standard for Industrial Machinery
- 80 Fire Doors, Windows
- 80A Exposure Fires, Prot.
- 81 Fur Storage & Cleaning
- 82 Incinerators, Rubbish
- 85A Single Burner Boiler-Furnaces
- 85B Gas Multi-Burner Boiler
- 85D Oil Multi-Burner Boiler
- 85E Coal Multi-Burner Boiler
- 85F Pulverized Fuel Systems
- 85G Implosions in Multi-Burner Boiler
- 86 Ovens and Furnaces
- 86C Ind. Furn., Sp. Processing
- 86D Ind. Vacuum Furnaces
- 88A Parking Structures
- 88B Repair Garages
- 90A Air Conditioning Syst.
- 90B Warm Air Htg., Air Cond.
- 91 Blower and Exhaust Syst.
- 96 Vapor Removal Cooking Eq.
- 97M Heating Terms, Glossary
- 99 Health Care Facilities
- 101* Life Safety Code*
- 102 Assembly Seating, Tents, Air-Supported Structures
- 105M Smoke- and Draft-Control Door Assemblies
- 110 Emergency and Standby Power Sys.
- 120 Coal Preparation Plants
- 121 Mobile Surface Mining Equip.
- 130 Fixed Guideway Transit Sys.
- 150 Racetrack Stables
- 172 Fire Protection Symbols for Architectural & Engineering Drawings
- 174 Fire Protection Symbols for Risk Analysis Diagrams
- 178 Symbols — Fire Fighting Operations
- 203M Roof Coverings
- 204M Smoke, Heat Venting
- 211 Chimneys, Fireplaces, Vents
- 214 Water Cooling Towers
- 220 Types Bldg. Construction
- 224 Homes, Forest Areas
- 231 Indoor General Storage
- 231C Rack Storage of Mat'ls.
- 231D Storage of Rubber Tires
- 231E Storage of Baled Cotton
- 231F Storage of Roll Paper
- 232 Protection of Records
- 232AM Archives Centers
- 241 Bldg. Constr. Operation
- 251 Fire Tests Bldg. Constr. & Mat'ls.
- 252 Fire Tests Door Assem.
- 253 Flooring Radiant Panel Test
- 255 Burning Character. Bldg. Mat'ls.
- 256 Tests Roof Coverings
- 257 Window Assemblies
- 258 Tests Smoke Generated
- 259 Tests Heat of Bldg. Mat'ls.
- 260A Cig. Ignition Resistance — Components of Furniture
- 260B Cig. Ignition Resistance — Composites of Furniture
- 262 Fire and Smoke Char. of Wire and Cable
- 302 Pleasure and Commercial Motor Craft
- 303 Marinas and Boatyards
- 306 Gas Hazards on Vessels
- 307 Marine Terminals, Piers, and Wharves
- 312 Vessels, Constr., Repair
- 402M Aircraft Rescue, Fire Fighting Op. Procedures
- 403 Aircraft Rescue Services
- 407 Aircraft Fuel Servicing
- 408 Aircraft Extinguishers
- 409 Aircraft Hangars
- 410 Aircraft Maintenance
- 412 Testing, Foam Vehicles
- 414 Rescue Vehicles
- 415 Fueling Ramp Drainage
- 416 Airport Terminals
- 417 Loading Walkways
- 418 Roof-top Heliports
- 419 Airport Water Systems
- 421 Aircraft Interior F. P.
- 422M Aircraft Fire Investigators Manual
- 423 Aircraft Engine Test Facilities
- 424 Airport/Community Emerg. Planning
- 501A Mobile Home Instal., Sites
- 501C Recreational Vehicles
- 501D Recreational Vehicle Pks.
- 502 Highways, Tunnels, Bridges
- 505 Powered Industrial Trucks
- 512 Truck Fire Protection
- 513 Motor Freight Terminals
- 601 Guard Service
- 601A Guard Operations
- 701 Fire Tests, Textiles, Films
- 702 Wearing Apparel
- 703 Fire-Retardant Treatments of Bldg. Mat'ls.
- 704 Ident. of Materials
- 801 Radioactive Mat'l. Facil.
- 802 Nuclear Research Reactors
- 803 Light Water Nuclear Power Plants
- 901 Uniform Coding for F. P.
- 902M Field Incident Manual
- 903M Property Survey Manual
- 904M Investigative Report Manual
- 907M Investigation of Fires of Elec. Origin
- 910 Libraries and Library Collections
- 911 Museums and Museum Collections
- 1001 Fire Fighter Prof. Qual.
- 1002 Driver Prof. Qual.
- 1003 Airport Fire Fighter Prof. Qual.
- 1004 Fire Fighter Medical Technicians
- 1021 Fire Officer Prof. Qual.
- 1031 Fire Inspector Prof. Qual.
- 1041 Fire Instructor Prof. Qual.
- 1121L Model State Fireworks Law
- 1122 Unmanned Rockets Code
- 1123 Fireworks, Public Display
- 1124 Fireworks, Mfg., Trans., Stge.
- 1141 Fire Prot. in Planned Building Groups
- 1201 Organization, Fire Services
- 1202 Fire Dept. Organization
- 1221 Public Fire Serv. Comm.
- 1231 Suburban & Rural Water Supplies
- 1301 Public Fire Prev. Criteria
- 1401 Training Reports, Records
- 1402 Building Training Centers
- 1410 Initial Fire Attack
- 1501 Fire Dept. Safety Officer
- 1901 Automotive Fire Apparatus
- 1904 Aerial Ladders & Elev. Platforms
- 1921 Portable Pumping Units
- 1931 Fire Dept. Ground Ladders
- 1932 Fire Dept. Ground Ladders, Use, Maint., Testing
- 1961 Fire Hose
- 1962 Fire Hose Care, Use
- 1963 Hose Connection Threads
- 1971 Protective Clothing
- 1972 Fire Fighters' Helmets
- 1973 Gloves for Structural Fire Fighters
- 1975 Station/Work Uniforms
- 1981 Self-Contained Breathing App.
- 1982 Personal Alert Safety System for Fire Fighters
- 1983 Life Safety Rope