

SECTION 01420 - LIFE SAFETY REFERENCES

CONSTRUCTION STANDARD

PART 1: GENERAL

1.01 Scope of Standard

- A. This standard provides general guidance concerning the specific preferences of the University of Texas at Austin for life safety features constructed and installed within structures.
- B. It is expected that these guidelines will govern the design and specifications for UT projects.

1.02 Related Standards

- A. 13851 – Intelligent/Addressable Fire Detection/Fire Alarm Systems
- B. 15300 – Fire Protection Piping Systems Standard
- C. 16720 – Fire Alarm Standards

1.03 Reference Standards

A. NFPA 101 Life Safety Code, together with annexes and mandatory standards referenced within:

NFPA 10, Standard for Portable Fire Extinguishers.

NFPA 13, Standard for the Installation of Sprinkler Systems.

NFPA 13D, Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes.

NFPA 13R, Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height.

NFPA 14, Standard for the Installation of Standpipe, Private Hydrants, and Hose Systems.

NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.

NFPA 30, Flammable and Combustible Liquids Code.

NFPA 30B, Code for the Manufacture and Storage of Aerosol Products.

NFPA 31, Standard for the Installation of Oil-Burning Equipment.

NFPA 40, Standard for the Storage and Handling of Cellulose Nitrate Motion Picture Film.

NFPA 45, Standard on Fire Protection for Laboratories Using Chemicals.

NFPA 54, National Fuel Gas Code.

NFPA 58, Liquefied Petroleum Gas Code.

NFPA 70, National Electrical Code®.

NFPA 72, National Fire Alarm Code®.

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- NFPA 80, Standard for Fire Doors and Fire Windows.
- NFPA 82, Standard on Incinerators and Waste and Linen Handling Systems and Equipment.
- NFPA 88A, Standard for Parking Structures.
- NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilating Systems.
- NFPA 90B, Standard for the Installation of Warm Air Heating and Air-Conditioning Systems.
- NFPA 91, Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Noncombustible Particulate Solids.
- NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations.
- NFPA 99, Standard for Health Care Facilities.
- NFPA 101A, Guide on Alternative Approaches to Life Safety.
- NFPA 110, Standard for Emergency and Standby Power Systems.
- NFPA 111, Standard on Stored Electrical Energy Emergency and Standby Power Systems.
- NFPA 160, Standard for Flame Effects Before an Audience.
- NFPA 211, Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances.
- NFPA 220, Standard on Types of Building Construction.
- NFPA 221, Standard for Fire Walls and Fire Barrier Walls.
- NFPA 230, Standard for the Fire Protection of Storage.
- NFPA 231D, Standard for Storage of Rubber Tires.
- NFPA 241, Standard for Safeguarding Construction, Alteration, and Demolition Operations.
- NFPA 251, Standard Methods of Tests of Fire Endurance of Building Construction and Materials.
- NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- NFPA 253, Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.
- NFPA 255, Standard Method of Test of Surface Burning Characteristics of Building Materials.
- NFPA 256, Standard Methods of Fire Tests of Roof Coverings.
- NFPA 257, Standard on Fire Test for Window and Glass Block Assemblies.
- NFPA 259, Standard Test Method for Potential Heat of Building Materials.
- NFPA 260, Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture.
- NFPA 261, Standard Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes.

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NFPA 265, Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings.

NFPA 266, Standard Method of Test for Fire Characteristics of Upholstered Furniture Exposed to Flaming Ignition Source.

NFPA 267, Standard Method of Test for Fire Characteristics of Mattresses and Bedding Assemblies Exposed to Flaming Ignition Source.

NFPA 286, Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.

NFPA 418, Standard for Heliports.

NFPA 430, Code for the Storage of Liquid and Solid Oxidizers.

NFPA 432, Code for the Storage of Organic Peroxide Formulations.

NFPA 434, Code for the Storage of Pesticides.

NFPA 701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

NFPA 703, Standard for Fire Retardant Impregnated Wood and Fire Retardant Coatings for Building Materials.

NFPA 1126, Standard for the Use of Pyrotechnics before a Proximate Audience.

ANSI A14.3, Safety Code for Fixed Ladders, American National Standards Institute, 11 West 42nd Street, New York, NY 10036.

CABO/ANSI A117.1, American National Standard for Accessible and Usable Buildings and Facilities, American National Standards Institute, 11 West 42nd Street, New York, NY 10036.

ANSI A1264.1, Safety Requirements for Workplace Floor and Wall Openings, Stairs and Railing Systems, American National Standards Institute, 11 West 42nd Street, New York, NY 10036.

ANSI/UL 2079, Test of Fire Resistance of Building Joint Systems, Underwriters Laboratories Inc., 333 Pfingsten Rd., Northbrook, IL 60062.

ASME/ANSI A17.1, Safety Code for Elevators and Escalators, including Addenda A17.1a and A17.1b, American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016-5990.

ASME/ANSI A17.3, Safety Code for Existing Elevators and Escalators, including Addenda A17.3a and A17.3b, American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016-5990.

ASTM D 2898, Test Method for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing, American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C, American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

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ASTM E 1537, Standard Method for Fire Testing of Real Scale Upholstered Furniture Items, American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM E 1590, Standard Method for Fire Testing of Real Scale Mattresses, American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA. 19428-2959.

ASTM E 1591, Standard Guide for Data for Fire Models, American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM F 851, Standard Test Method for Self-Rising Seat Mechanisms, American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA. 19428-2959.

ASTM G 26, Practice for Operating Light/Exposure Apparatus (Zenon-Arc Type) With and Without Water for Exposure of Non-Metallic Materials, American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshocken, PA 19428-2959.

BHMA/ANSI A-156.19, American National Standard for Power Assist and Low Energy Power Operated Doors, Builders Hardware Manufacturers Association, 355 Lexington Avenue - 17th Floor, New York, NY 10017-6603.

Code of Federal Regulations 16, Part 1632.

UL 924, Standard for Safety Emergency Lighting and Power Equipment, Underwriters Laboratories Inc., 333 Pfingsten Rd., Northbrook, IL 60062.

UL 1975, Standard for Fire Tests for Foamed Plastics Used for Decorative Purposes, Underwriters Laboratories Inc., 333 Pfingsten Rd., Northbrook, IL 60062.

1.03 Quality Control

- A. Construction and remodeling plans must be sealed by a licensed Professional Architect and Engineer.

1.04 General Requirements

- A.

PART 2: PRODUCTS – NOT USED

PART 3: EXECUTION – NOT USED

END OF STANDARD