



Miami Beach Fire Department
FIRE PREVENTION DIVISION
STANDARDS



TOPIC: Interior Finishes
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STANDARD NO: NEWC-S15
Revision 0

This Fire Prevention Standard (FPS) will help simplify the process for evaluating and complying with interior finish, contents, and furnishings provisions set forth by the FFPC - 2007 edition, NFPA 101 - Chapter 10 shall apply to new construction and exiting buildings.

The minimum requirements established in Section 10.2 - Interior Finishes and Section 10.3 - Content and Furnishings, must be specifically referenced in the applicable Occupancy Chapters in order for same to be required.

Plan Review (Permitting):

The architect of record must clearly identify the interior finish, contents, and furnishings provisions set forth by the FFPC. The architect must identify the type of interior finish to be used (i.e., carpet) and the rating (Class I) on the plans for each area. The fire plans examiner will confirm the rating with the requirements in FFPC.

Inspections:

Prior to the Final Inspection, the Contractor must submit the following documentation:

1. Manufacturer's material specifications and/or successful test results from a qualified testing laboratory, which demonstrates compliance with the applicable Standards listed below.
2. A complete binder with samples of all materials used separated by specific rooms or areas with the flame retardant certificate or specification mentioned above.
3. A Certified Letter from the Architect of Record which states that materials included in the binder are all inclusive at the time of Certificate of Occupancy and are in compliance with the requirements of NFPA 101 - Chapter 10.
4. For small jobs, the fire inspector will conduct a flame test (NFPA 705, *Recommended Practice for a Field Flame Test for Textiles and Films*) of random sample of materials. For major jobs, the owner/contractor must contract a third party company licensed and experienced in conducting field testing for interior finish requirements. The field testing is necessary to ensure that the material specified in the plans is the same material installed with the proper rating. Please note that the NFPA 705 test is limited to fabrics and film.
5. If the rating for interior finish or furnishings is achieved by application or treatment using a flame retardant coating, then the architect of record must provide the following documentation: 1) specification of product identifying a listing or certification by a nationally recognized agency; 2) documentation from the agency showing the final rating to be achieved on the specific material; 3) documentation on applicator's certification or experience; and 4) letter stating architect witnessed that application method complied with manufacturer's specification.
6. A photo album of each typical area/room of the building which clearly each interior elevation. The color photos must clearly show all materials installed at the time of final acceptance. This will serve as a record of the building interior finishes for future inspections.

The Occupancy Chapters contain the specific Classification requirements for the Interior Finishes. The Classification of interior finish specified shall be that of the basic material used by itself, or in combination with other materials, if used as such. The Classifications for each material and application must be based on the Standards listed in the Table below.

Fire Retardant Coatings applied by the manufacturer or in the field shall be tested, or shall be listed and labeled for the application to the material to which they are applied and shall comply with the requirements of NFPA 703, *Standard for Fire-Retardant – Treated Wood and Fire-Retardant Coating of Building Materials*. Fire-Retardant coatings shall be maintained so as to retain the effectiveness of the treatment as specified in the original certification.

Section 10.2 Interior Finishes

All new and existing Occupancy Chapters require that the Interior finish shall be in accordance with Section 10.2, which specifies the minimum Testing and Classification requirements for Walls and Ceilings and Floor Finish.

Section 10.3 Contents and Furnishings

Section 10.3 consists of three basic parts: 10.3.1 Draperies, 10.3.2.1 Upholstered Furniture, and 10.3.2.2 Mattresses.

The requirements of Section 10.3.1 (Draperies) must be met in the following Occupancy Chapters: New and Existing Assembly, New and Existing Educational, New and Existing Day-Care, New and Existing Health Care, New and Existing Ambulatory, New and Existing Detention and Correction, New and Existing Residential Board and Care, New and Existing Hotels.

The requirements of Section 10.3.2.1 (Upholstered Furniture) must be met in the following Occupancy Chapters: New and Existing Health Care, New and Existing Ambulatory, New and Existing Detention and Correction, New and Existing Residential Board and Care.

The requirements of Section 10.3.2.2 (Mattresses) must be met in the following Occupancy Chapters: New and Existing Health Care, New and Existing Ambulatory, New and Existing Detention and Correction, New and Existing Residential Board and Care.

Table of Testing Standards – NFPA 101

Interior Wall and Ceiling Finishes	NFPA 225, <i>Standard Method of Test of Surface Burning Materials</i> ASTM E 84, <i>Standard Method of Test of Surface Burning Materials</i> UL 723, <i>Standard Method of Test of Surface Burning Materials</i>
Textile Wall and Ceiling Coverings & Expanded Vinyl Wall and Ceiling Materials	NFPA 265, <i>Standard Methods of Fire Test for Evaluating Room Fire Growth Contribution of Textile Coverings on Full height Panels and Walls</i> NFPA 286, <i>Standard Methods for Fire Test for Evaluating Contribution of Wall and Interior Finish to Room Fire Growth</i>
Interior Floor Finishes	ASTM D 2859, <i>Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials.</i> (for carpet and carpet like interior floor finishes) (or) NFPA 253, <i>Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.</i>
Cellular Foamed Plastics	NFPA 286, <i>Standard methods of Fire Test for Evaluating Contribution of Wall and Ceiling interior to Room Fire Growth.</i> NFPA 1715, <i>Standard for Fire Test of Interior Finish Material</i> UL 1040, <i>Standard for Fire Test of Insulated Wall Construction</i> FM 4880, <i>Approval Standard for Class I Insulated Wall or Wall and Roof/Ceiling Panels; Plastic Interior Finish Materials; Plastic Exterior Building Panels; Wall/Ceiling Coating Systems; Interior or Exterior Finish Systems.</i> UL 1975, <i>Standard for Fire Test for Foamed Plastics Used for Decorative Purposes.</i>
Draperies, Curtains and other loosely hanging furnishings	NFPA 701 – <i>Standard Methods of Fire Test for Flame Propagation of Textiles and Films.</i>
Components of Upholstered Furniture	NFPA 260 , <i>Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered furniture</i> ASTM E 1353, <i>Standard Test Method for Cigarette Ignition Resistance of Components of Upholstered Furniture.</i>
Moc-up Composites of Upholstered Furniture	NFPA 261, <i>Standard Method of test for Determining Resistance of Moc-up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes</i> ASTM E 1352 <i>Standard Test Method for Cigarette Ignition Resistance off Moc-up Upholstered Furniture Material Assemblies</i>
Mattresses	16 CFR 1632, <i>Standard for Flammability of Mattresses and Mattress Pads.</i> ASTM E 1590, <i>Standard Test method for Fire Testing of Mattresses</i> (Only when the requirements of 10.3.4 are specifically referenced elsewhere)


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