

FLAMMABILITY

ASTM D1929	Test Method for Determining Ignition Properties of Plastics	Self ignition temperature	Covered mall buildings - plastic other than foam plastic materials
ASTM D2859	Flammability of Finished Textile Floor Covering Materials	Part IV 10.2.7.1 Part IV 10.2.7.2	Carpet and carpet-like interior floor finishes Floor coverings, other than carpet
ASTM D2898 - 1994	Test Methods for Accelerated Weathering of Fire Retardant Treated Wood for Fire Testing	1505.1	Roof Assemblies fire classification, cross reference UL-790
ASTM E108 - 2000, UL 790	Test Methods for Fire Testing of Roof Coverings	1505.1 2603.6 2610	Roof Assemblies fire classification, cross reference UL-790 Plastic roofing Plastic skylights
ASTM E136 - 2001	Test Method Behavior of Materials in a Vertical Tube Furnace at 750 degrees C	703.4.1	Elementary Materials - non combustible
DOC 16 CFR Part 1632 (1999)	Standard for the Flammability of Mattress and Mattress Pads	803.6.2 Part IV 10.3.2	reference to ASTM E84 Contents and Furnishings - upholstered furniture and mattresses

UL 1040 - 1996	Fire Test of Insulated Wall Construction	1407.10.3 2603.4 2603.8	Exterior Wall - metal composite materials - surface burning characteristics - thermal barriers Foam plastic insulation in thermal barriers - note E84 and E119 required Special Approval based on large scale tests
UL 1256 - 1996	Fire Test of Roof Deck Construction	1508.1 2603.3 2603.4.1.5	Roof Insulation Foam plastic insulation - note E84 and E119 required Foam plastic insulation under roofing
NFPA 259 - 2003	Standard Test Method for Potential Heat of Building Materials	2603.4.1.10 2603.5.3	Plastic siding backer boards Plastic exterior walls potential heat
NFPA 266, ASTM E1537		Part III 803.5.2 Part IV 10.3.3 FPC 10.20.3	Furnishings - Upholstered furniture heat release rates reference to ASTM 1537 Contents and Furnishings

FLAMMABILITY - IGNITION, SURFACE BURNING AND FLAME SPREAD

ASTM E84 - 2001, NFPA 255	Test Method for Surface Burning Characteristics of Building Materials		
		703.4.2	Composite Materials
		719.1	Thermal and Sound Insulating Materials
		719.4	Loose fill insulation that does not fit ASTM E84 apparatus
		402.10.	Covered mall buildings - kiosk materials
		402.14.4	Covered mall buildings - plastic other than foam plastic materials
		406.5.2	Motor vehicle related occupancies - plastic canopies
		410.3.5.3	Stages & Platforms - proscenium curtains - note E84 and E119 required
		802.1	Flame spread index, smoke developed index
		803.1	Wall and ceiling finishes
		803.5	Interior finish requirements
		803.6	Textile wall and ceiling finish - Method A, Method B, cross reference to NFPA 265 (Flashover)
		1407.10.	Exterior Wall - metal composite materials - surface burning characteristics - note E84 and E119 required
		2303.2	Fire retardant treated wood
		2603.3	Foam plastic insulation - note E84 and E119 required
		2603.4.1.13	Foam plastic insulation in thermal barriers - note E84 and E119 required
		2603.5.4	Foam plastic insulation in exterior walls
		2604.2.4	Plastic Interior finish and trim - note E84 and E119 required
		2606.4	Light transmitting plastics
		3105.3	Special construction - Awnings and canopies
	Part III 805	Decorations and Trim	
	Part III 805.3.4	Decorations and Trim - flame spread	
	Part III 806.2.3	Textiles	
	Part III 806.3	Interior Finish and Decorative Materials requirements	

	Standard Method for Fire Testing of Real Scale Upholstered Furniture	
ASTM E1537, NFPA 266 Items		cross reference NFPA 266

ASTM E1590, NFPA 267	Standard Method for Fire Testing of Real Scale Mattresses		cross reference NFPA 267
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CPSC 16 CFR Part 1630 (2000)	Standard for the Surface Flammability of Carpets and Rugs	804.5.1	Interior floor finish per DOC FF-1 "pill test"
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UL 1715 - 1997	Fire Test of Interior Finish Material	1407.10.2	Exterior Wall - metal composite materials - thermal barrier - note E84 and E119 required
		1407.10.3	Exterior Wall - metal composite materials - thermal barrier - note E84 and E119 required
		2603.4	Foam plastic insulation in thermal barriers - note E84 and E119 required
		2603.8	Special Approval based on large scale tests

UL 1975 - 1996	Fire Test of Foamed Plastics Used for Decorative Purposes	402.10.	Covered mall buildings - kiosk materials
		402.14.5	Covered mall buildings - foam plastic used in signs
		Part III 803.2.1	Furnishing - plastics in Use Group A
			Furnishings and contents made with ignition unprotected foamed plastic materials
		Part IV 10.3.7	
		Part IV 13.4.5.11.4	Flame Retardant Decorations in Assembly Occupancies
		FPC 20.1.2.4	Flame Retardant Decorations in Assembly Occupancies
		FPC 20.1.4.3.6	Exposed foam plastic materials for Furnishings, Decorations and Scenery
FPC 20.1.4.4.4	Exhibits	Acoustical and decorative materials (cotton, hay, paper, straw, moss, split bamboo, wood chips, mannequins, murals, signs)	
			FPC 20.1.4.4.6

CAN/ULC S102.2	Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings and Miscellaneous Materials and Assemblies	719.4 803.1 803.6.2	Loose fill insulation that does not fit ASTM E84 apparatus Wall and ceiling finishes reference to ASTM E84
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NFPA 253 - 2000	Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Radiation Source - Interior Floor Finish	804.2	Interior Floor Finish - classification
		804.3	Interior Floor Finish - testing and identification
		406.6.4	Repair Garages - floor surfaces
		Part IV 8.3.3.2	Fire doors and fire windows
		Part IV 8.3.3.6	Glazing in fire window assemblies
		Part IV 8.3.3.8	Non symmetrical glazing assemblies - based on shorter duration side
		Part IV 10.2.7.3	Interior Floor Finishes
		FPC 12.4.2	Fire doors and fire windows
		FPC 12.7.3.2	Fire doors and fire windows
		FPC 12.7.3.6	Glazing in fire window assemblies
FPC 12.7.3.8 (2)	Non symmetrical glazing assemblies - based on shorter duration side		

NFPA 255 - 2000, ASTM E84	Standard Method of Test of Surface Burning Characteristics of Building Materials	Part IV 10.2.3	Interior Wall and Ceiling Finish Testing and Classification
		Part IV 13.4.5.7.6.3	Proscenium curtains

NFPA 260 - 1998	Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture	Part IV 10.3.2	Smoldering cigarette ignition of upholstered furniture and mattresses
		FPC 10.20.2	Smoldering cigarette ignition of upholstered furniture and mattresses

NFPA 261 - 1998	Standard Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes	Part IV 10.3.2 FPC 10.20.2	Smoldering cigarette ignition of upholstered furniture and mattresses Smoldering cigarette ignition of upholstered furniture and mattresses
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NFPA 265 - 2002	Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Coverings on Full Height Panels and Walls -	803.6.1 Part III 806.2.3.1 Part IV 10.2.3.7 Part IV 10.2.4.1 Part IV 10.3.4 (2)	Textile wall and ceiling finish - Method A, Method B, cross reference to NFPA 265 (Flashover) Textile wall and ceiling finish - Method A, Method B, cross reference to NFPA 265 (Flashover) Interior wall and ceiling finish products Textile Wall and Textile Ceiling Finish Materials reference to ASTM 1590
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NFPA 267 - 1998, ASTM E1590	Standard Method of Test for Fire Characteristics of Mattresses and Bedding Assemblies Exposed to Flaming Ignition Source	Part III 803.5.3 Part III 803.6.3 Part III 803.7.4 Part IV 10.3.4 (2) FPC 10.20.4	Furnishings - Mattress heat release rates Use Group I-2 Furnishings - Mattress heat release rates Use Group I-1 Furnishings - Mattress heat release rates Use Group I-3 reference to ASTM 1590 Upholstered furniture in non-sprinklered buildings where required
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NFPA 268 - 2001	Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source	1406.2.1	Exterior Walls - combustible materials on exterior side
		2603.5.7	Exterior Walls - ignition and sustained burning

NFPA 285 - 1998	Standard Method of Test for the Evaluation of Flammability Characteristics of Exterior Non-Load Bearing Wall Assemblies Containing Combustible Components Using the Intermediate Scale, Multi- Story Test Apparatus	1407.10.4	Exterior Walls - metal composite materials - full scale tests
		2603.5.5	Foam plastic insulation exterior walls

NFPA 286 - 2000	Standard Methods of Fire Tests for Evaluating Contribution of Wall & Ceiling Interior Finishes to Room Fire Growth	803.2	Interior finish requirements
		803.5	Interior finish - flame spread index
		402.14.4	Covered mall buildings - plastic other than foam plastic materials
		2603.4	Foam plastic insulation in thermal barriers - note E84 and E119 required
		2603.8	Special Approval based on large scale tests
		Part III 806.2.1	Interior Finish and Decorative Materials - other than textiles
		Part III 806.3	Wall and Ceiling Finish Requirements by occupancy
		Part IV 10.2.3.7	Interior wall and ceiling finish products
Part IV 10.2.4.2	Expanded Vinyl Wall or Ceiling Coverings		

NFPA 701 - 2004	Fire Tests for Flame Propagation of Textiles and Films	805.2	Decoration and trim acceptance criteria
		Part III 803.2.2	Motion picture screens
		Part III 805	Decorations and Trim in Use Groups A, E, I, R-1, R-2
		Part IV 10.3.1	Draperies, curtains and loosely hanging furnishings and decorations
		Part IV 13.3.3.4	Projection screens
		Part IV 13.4.5.11.1	Combustible scenery of cloth, film, dry vegetation in Assembly Occupancies
		Part IV 13.7.4.3	Exhibits
		Part IV 17.7.4	
		Part IV 37.4.4.8	Kiosks
		FPC 20.1.2.1	Combustible scenery of cloth, film, dry vegetation in Assembly Occupancies
		FPC 20.1.4.3.2	Draperies, curtains and loosely hanging furnishings and decorations
		FPC 20.1.4.4.4	Exhibits
			Combustible scenery of cloth, film, dry vegetation in Flexible Plan and Open Plan Buildings
		FPC 20.2.3.3.2	Buildings
		FPC 20.3.3.2.3.4	Furnishings and Decorations in Day Care Occupancies
FPC 20.4.2.5.2	Furnishings and Decorations in Residential Board and Care Care Occupancies		
FPC 20.5.2.5	Furnishings and Decorations in Health Care Occupancies		
FPC 20.6.2.5	Furnishings and Decorations in Ambulatory Health Care Centers		
FPC 20.7.2.4	Furnishings and Decorations in Detention and Correctional Occupancies		
FPC 20.8.2.5	Furnishings and Decorations in Hotel and Dormitory Occupancies		

NFPA 703 - 2000	Standard for Fire Retardant Impregnated Wood and Fire Retardant Coatings for Building Materials	Part IV 10.2.6.1	Fire Retardant Coatings
		Part IV 37.4.4.8	Kiosks
		FPC 10.20.2.1	Upholstered furniture in non-sprinklered buildings where required

Fire Resistance

ASTM E119 - 2000, NFPA 251	Test Method for Fire Tests of Building Construction and Materials		
		703.2	Fire Resistance Rating
		703.2.1	Non symmetrical wall construction - test both faces - assign least fire resistant
		703.2.3	Non restrained unless evidenced by registered design professional
		703.3	Alternative methods based on ASTM E119 results
		704.7	Exemption for exterior walls to unexposed surface temperature criterion
		704.9	Exemption for vertical separations to unexposed surface temperature criterion
		706.7	Fire barrier openings
		711.3.2	Horizontal assembly access doors
		712.3	Through Penetrations
		712.3.1	Through Penetrations Fire resistance rated walls - note E84 and E119 required
			Through Penetrations Fire resistance rated floor fire doors - note E84 and E119 required
		712.4.1	
		712.4.6	Through Penetrations Fire resistance rated horizontal assemblies
		713.1 (9)	Joint systems - control joints
		713.4	Exterior curtain wall/floor intersections
		714.2	Protection of structural members
		714.7	Protection of seismic isolation systems
		715.2	Opening protectives - fire resistance rated glazing
		716.5.2	Duct and Air Transfer Openings - fire barriers
	716.5.3	Duct and Air Transfer Openings - shaft enclosures	
	716.6.2	Duct and Air Transfer Openings - membrane penetrations	
	Table 720.1 (1)	Prescriptive fire resistance - Minimum protection of structural parts based on time	
	410.3.5.2	Stages & Platforms - proscenium curtain fire test - note E84 and E119 required	
	1407.10.2	Exterior Wall - metal composite materials - thermal barrier - surface burning	
	2103.2	Non structural masonry construction units	
	2603.3	Foam plastic insulation - note E84 and E119 required	
	2603.4	Foam plastic insulation in thermal barriers - note E84 and E119 required	
	2603.4.1.13	Foam plastic insulation sill plates and headers	
	2604.2.4	Plastic Interior finish and trim - note E84 and E119 required	

ASTM E814 - 2000 or UL 1479	Test Methods of Fire Tests of Through Penetration Fire Stops	702 712.3.1.2 712.4.1.2 Part IV 8.3.5.1 Part IV 8.3.5.6.2 FPC 12.7.5.1	Definition of F-rating, T-rating, cross referencing ASTM E814 Through Penetrations Fire resistance rated walls - note E84 and E119 required Through Penetrations Fire resistance rated floor fire doors - note E84 and E119 required Firestop systems and devices Firestop systems for membrane penetrations Firestop systems and devices
ASTM E1966-00 or UL 2079	Test Method for Fire Resistant Joint Systems	702 712.3 713.3	Definition of F-rating, T-rating, cross referencing ASTM E814 Through Penetrations Fire resistance rated walls - note E84 and E119 required Fire Resistant Joint Systems
ASTM C635 & ASTM C636	Specification for the Manufacture, Performance, and Testing [and Installation] of Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings	803.9.1.1	Acoustical Ceiling Systems - materials and installation
UL 10A - 1998, NFPA 80	Tin Clad Fire Doors	715.3	Opening Protectives - Fire Door and Shutter Assemblies
UL 10B - 1997, NFPA 80	Tests of Door Assemblies	715.3.2	Opening Protectives - other types of doors
UL 10C - 1998, NFPA 80	Positive Pressure Fire Tests of Door Assemblies	715.3.1 715.3.3	Opening Protectives - side hinged or pivoted swinging doors Opening Protectives - door assemblies in corridors and smoke barriers

UL 555 - 1999	Fire Dampers	716.3 Part IV 8.5.4.2 FPC 12.9.5.1	Duct and Air Transfer Openings - damper testing and ratings Smoke dampers in smoke barriers Smoke Dampers
UL 555C - 1996	Ceiling Fire Dampers	716.3 716.6.2	Duct and Air Transfer Openings - damper testing and ratings Duct and Air Transfer Openings - membrane penetrations
UL 555S - 1999	Smoke Dampers	716.3 Part IV 8.4.6.2 Part IV 8.5.4.2 FPC 12.9.5.1	Duct and Air Transfer Openings - damper testing and ratings Smoke dampers in partitions Smoke dampers in smoke barriers Smoke Dampers
UL 790 - 1997, ASTM E108	Tests for Fire Resistance of Roof Covering Materials		
UL 1479 - 1994, ASTM E814	Fire Tests of Through Penetration Fire Stops	712.3.1.2 712.4.1.2 Part IV 8.3.5.1	Through Penetrations Fire resistance rated walls - note E84 and E119 required Through Penetrations Fire resistance rated floor fire doors - note E84 and E119 required Firestop systems and devices
UL 1784 - 2001	Air Leakage Tests of Door Assemblies	707.14.1 710.5.2 715.3.3 715.3.5.1 Part IV 8.2.2.4	Elevator Lobby Doors Smoke Partitions - smoke and draft control doors Opening Protectives - door assemblies in corridors and smoke barriers Labeling - smoke and draft control doors Door assembly air leakage
UL 2079 - 1998	Tests for Fire Resistance of Building Joint Systems	702.1 712.3 Part IV 8.6.3	Definition of F-rating, T-rating, cross referencing ASTM E814 Through Penetrations Fire resistance rated walls - note E84 and E119 required Expansion and Seismic Joints

NFPA 251 - 1999, ASTM E119	Standard Methods of Fire Tests for Building Construction and Materials	703.2	Fire Resistance Rating
			Non symmetrical wall construction - test both faces - assign least fire resistant value
		703.2.1	
		703.2.3	Non restrained unless evidenced by registered design professional
		703.3	Alternative methods based on ASTM E119 results
		704.7	Exemption for exterior walls to unexposed surface temperature criterion
		704.9	Exemption for vertical separations to unexposed surface temperature criterion
		706.7	Fire barrier openings
		711.3.2	Horizontal assembly access doors
		712.3	Through Penetrations
		712.3.1	Through Penetrations Fire resistance rated walls - note E84 and E119 required
			Through Penetrations Fire resistance rated floor fire doors - note E84 and E119 required
		712.4.1	
		712.4.6	Through Penetrations Fire resistance rated horizontal assemblies
		713.1 (9)	Joint systems - control joints
		713.4	Exterior curtain wall/floor intersections
		714.2	Protection of structural members
		714.7	Protection of seismic isolation systems
		715.2	Opening protectives - fire resistance rated glazing
		716.5.2	Duct and Air Transfer Openings - fire barriers
		716.5.3	Duct and Air Transfer Openings - shaft enclosures
		716.6.2	Duct and Air Transfer Openings - membrane penetrations
		Table 720.1 (1)	Prescriptive fire resistance - Minimum protection of structural parts based on time
		410.3.5.2	Stages & Platforms - proscenium curtain fire test - note E84 and E119 required
			Exterior Wall - metal composite materials - thermal barrier - surface burning characteristics - note E84 and E119 required
		1407.10.2	
		2103.2	Non structural masonry construction units
		2603.3	Foam plastic insulation - note E84 and E119 required
		2603.4	Foam plastic insulation in thermal barriers - note E84 and E119 required
		2603.4.1.13	Foam plastic insulation in thermal barriers - note E84 and E119 required
		2603.5.4	Foam plastic insulation in exterior walls
		2604.2.4	Plastic Interior finish and trim - note E84 and E119 required
		2606.4	Light transmitting plastics
		Part IV 8.3.2.3	Non symmetrical interior walls and partitions - based on shorter duration side

	Part IV 8.3.3.2	Fire doors and fire windows
	Part IV 13.4.5.7.6.3	Proscenium curtains
	Part IV 13.4.5.11	Combustible scenery
	FPC 12.4.2	Fire doors and fire windows
	FPC 12.4.5	Glazing and horizontally sliding accordion and folding assemblies
	FPC 12.7.2.3	Non symmetrical interior walls and partitions tested and rated on shorter duration side
	FPC 12.7.3.2	Fire doors and fire windows

NFPA 252 - 2003, UL 10B, UL 10C	Standard Methods of Fire Tests of Door Assemblies	
	715.3.1	Opening Protectives - side hinged or pivoted swinging doors
	715.3.2	Opening Protectives - other types of doors
	715.3.3	Opening Protectives - door assemblies in corridors and smoke barriers
	715.3.4.1	Opening Protectives - doors in vertical exit enclosures and exit passageways - glazing
	Part IV 8.2.3.1	Structural Elements and Bulding Assemblies
	Part IV 8.2.3.2	Floor and Roof Assemblies
	Part IV 8.2.4.3	Analytical methods based on fire exposure and acceptance criteria of NFPA 251
	Part IV 8.3.2.3	Non symmetrical interior walls and partitions - based on shorter duration side
	Part IV 8.3.3.2	Fire doors and fire windows
	Part IV 8.3.3.6	Fire window assembly glazing
	Part IV 8.3.4.2	Opening protectives
	Part IV 8.3.5.1.1	Firestop systems and devices
	FPC 12.4.2	Fire doors and fire windows
FPC 12.7.3.2	Fire doors and fire windows	

NFPA 256 - 1998	Standard Methods of Fire Tests for Roof Coverings	
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NFPA 257 - 2000, UL 1784	Standard for Fire Test of Window and Glass Block Assemblies	715.3.3	Opening Protectives - door assemblies in corridors and smoke barriers
		715.3.5.1	Labeling - smoke and draft control doors
		715.3.5.3	Opening Protectives - smoke and drafty control door labeling
		715.4	Fire door - fire protection rated glazing
		715.4.1	Fire door - fire protection rated glazing under positive pressure
		715.4.2	Fire door - fire protection rated glazing - nosymmetrical glazing systems
		Part IV 8.3.3.2	Fire Door and Fire Window Glazing
		Part IV 8.3.3.6	Fire Window Glazing
		Part IV 8.3.3.8	Non symmetrical glazing systems
		FPC 12.4.2	Fire doors and fire windows

NFPA 288 - 2001	Standard Methods of Fire Tests of Floor Fire Door Assemblies Installed Horizontally in Fire Resistance Rated Floor Systems	Part IV 8.3.3.4	Fire Barrier Floor Fire Door Assemblies
		FPC 12.7.3.4	Fire Barrier Floor Fire Door Assemblies

Fire Resistance Construction

UL 14B - 1998	Sliding Hardware for Standard Horizontally Mounted Tin Clad Fire Doors		
UL 14C - 1996	Swinging Hardware for Standard Tin Clad Fire Doors Mounted Singly and in Pairs		
NFPA 80 - 1999, UL 10A, UL 14B, UL 14C	Standard for Fire Doors and Fire Windows	<p>715.3</p> <p>715.3.5</p> <p>715.3.6.1</p> <p>715.3.7.2</p> <p>715.4</p> <p>Part III 703.2</p> <p>Part III 704.1.1</p> <p>Part IV 8.3.3.1</p>	<p>Opening Protectives - Fire Door and Shutter Assemblies</p> <p>Fire door and shutter assemblies - NFPA 80 labels</p> <p>Fire door - glazing size limitations</p> <p>Fire door - automatic closing assemblies</p> <p>Fire door - fire protection rated glazing</p> <p>Opening Protectives - doors</p> <p>Incidental use areas</p> <p>Fire Doors and Windows in Fire Barriers</p>
NFPA 221 - 2000	Standard for Fire Walls and Fire Barrier Walls	Part IV 8.2.1.3	Fire Walls and Fire Barriers