

NFPA 1124 - 2006 Highlights

General

- Addresses the manufacture, transportation, storage, and retail sales of all types of fireworks and pyrotechnic articles
- * Clarifies Scope and Purpose of entire document
- Provides a "road map" for using the code to guide the user and AHJ in its proper application in order to avoid overlap, confusion, and misapplication
- Clearly defines all the important words and terms used in the code and provides explanations in Annex A where needed to clearly understand a definition
 - * Definitions for "Fireworks" consistent between NFPA 1124 and NFPA 1123 and the model building and fire codes
- Contains Annexes that provide information on the following:
 - Magazine construction
 - APA Standard 87-1, Standard for Construction and Approval for Transportation of Fireworks
 - Glossary
 - DOT Explosive Materials Transport Regulations
 - Sample Ordinance adopting NFPA 1124
 - Informational references

Chapter 6—Storage of Consumer Fireworks

- Addresses storage of consumer fireworks, 1.4G at both manufacturing facilities and distribution facilities
- Addresses all possible venues for storage of consumer fireworks, 1.4G:
 - Permanent buildings
 - Consumer fireworks storage buildings
 - Consumer fireworks work buildings

- Temporary facilities
 - Trailers
 - Semitrailers
 - Metal shipping containers
- Specifies exempt amounts for fireworks, 1.4G not required to comply with Chapter 6
- Limits buildings to one story without basements
- Contains fire safety construction requirements for consumer fireworks storage buildings in jurisdictions that don't have building codes
- Specifies fire resistive separation requirements for consumer fireworks, 1.4G storage in multi-tenant buildings
- Requires automatic sprinklers for consumer fireworks storage buildings > 12,000 s.f.
 - Specifies design criteria for the automatic sprinkler system
- Requires portable fire extinguishers per NFPA 10
- Requires smoke/heat vents for consumer fireworks storage buildings > 50,000 s.f. in undivided area
- Requires fire department access
- Specifies minimum separation distances to adjacent buildings and structures including motor vehicle fuel-dispensing station dispensers, magazines, and process buildings
- Specifies clearances from flammable and combustible liquids storage facilities
- Requires means of egress to comply with NFPA 101, Life Safety Code
- Requires panic hardware for exit doors
- Specifies minimum aisle widths of 36"
- Limits dead end aisles to 50'
- References NFPA 230, for storage practices
- Contains limitations on operations allowed within consumer fireworks storage buildings including fireworks testing
- Contains housekeeping provisions
- Regulates consumer fireworks work buildings, rooms, and areas
- Provides specific criteria for trailers, semitrailers, and metal shipping containers used to store consumer fireworks, 1.4G
- Requires a fire emergency response plan
- * Requires independent third party testing of consumer fireworks to determine compliance with CPSC regulations

- * Annex A references the American Fireworks Safety Laboratory (AFSL)

Chapter 7—Retail Sales of Consumer Fireworks

- * Complete reformat of Chapter 7 based on types of sales venues
- Bans retail sales of illegal fireworks
- Prohibits retail sales of display fireworks, 1.3G
- * Novelties not regulated (except for their manufacture)
- Specifies exempt amounts for consumer fireworks, 1.4G not required to comply with Chapter 7
- * Provides specific criteria for determining “new” vs. “existing” retail sales
 - * Annex A contains a matrix to assist in determining “new” vs. “existing” venues
- Addresses all possible venues for retail sales of consumer fireworks, 1.4G:
 - Temporary structures
 - Stands
 - Tents
 - Trailers
 - Canopies
 - Permanent buildings
 - Fireworks only stores
 - General merchandise stores and 'big box' stores (bulk merchandising retail buildings)
 - Limited to 600 s.f. or 25% of sales area (whichever is less)
- Limits sales venues for consumer fireworks to mercantile occupancies
- * Designates “Consumer Fireworks Retail Sales Facilities” as “CFRS Facilities”
- Limits new buildings to one story

- Requires compliance with NFPA 101, Life Safety Code
- Contains fire safety construction requirements for new permanent buildings in jurisdictions that don't have building codes
- Specifies fire resistive separation requirements for new sales facilities in multi-tenant buildings
- * Requires automatic sprinklers for:
 - All new buildings > 6,000 s.f.
 - All existing buildings > 7,500 s.f.
- Provides guidance for determining appropriate automatic sprinkler system design criteria
 - * New design guidance provided in Annex A based on APA fire tests
- Requires portable fire extinguishers based on extra (high) hazard occupancy criteria per NFPA 10
 - * Stores now included
- Requires fire alarm system for buildings >3,000 s.f.
 - Manually activated
 - Public address system can be used
- Requires smoke and heat vents for new buildings with ceilings <10' high where travel distance to exits >25'
- Limits travel distance to exits to 75' in fireworks only stores
- * Prohibits means of egress from passing through storage rooms
- Requires a minimum of 3 exits for all fireworks only (CFRS) facilities and for all stores >3,000 s.f.
- Specifies minimum aisle widths of 48"
- Special aisle arrangements required
 - No dead ends

- Cross aisles required
- Exits required within 10' of cross aisle/aisle intersections
- Requires panic hardware for exit doors
- Requires fire department access
 - * Stores now included
- Specifies minimum separation distances to adjacent buildings/structures
- Specifies clearances from building/structure to fuel dispensers and combustibles including dry brush
 - * Allows existing CFRS facilities and stores to be separated by 25' from motor fuel-dispensing station dispensers in lieu of 50' required for new
- Prohibits discharging fireworks within 300' of stores
- Prohibits smoking in/within 50' of fireworks sales area
- Limits retail display height of consumer fireworks to:
 - 6' within sales area
 - 12' around perimeter of sales area
- Prohibits storage of combustible materials and merchandise above consumer fireworks retail displays unless a suitable horizontal barrier is provided
- Limits floor area occupied by retail displays of consumer fireworks to 40%
- Requires at least 50% of sales floor to be open space used only for aisles/cross aisles
- Requires flame breaks every 16' along display fixtures
- Requires flame breaks along longitudinal center line of retail sales display fixtures
- * Only exempts sprinklered stores from requirements for flame breaks
- Requires all fuses to be covered (except temporary stands)

- Fireworks must be packaged in order to be sold in general merchandise/ 'big box' stores
- Aerial fireworks must be displayed/packaged in a manner to limit travel distance of ejected pyrotechnic contents
- Aerial fireworks sold in general merchandise/'big box' stores must be in an area physically separated from rest of store
- Requires visual supervision of retail sales displays of consumer fireworks in general merchandise/'big box' stores
- Prohibits sales to persons under the influence of alcohol or drugs
- Requires a fire safety/evacuation plan
- Requires training for all personnel handling consumer fireworks
- Provides a means to differentiate between new and existing conditions
- Most requirements are retroactive

NOTE: * means new for the 2006 edition of NFPA 1124.