



Permit Processing Instructions

1. Complete Form and Sign at bottom of Page 2
2. Save the form as your Company Name
3. Email to firemarshal@dfwairport.com or Fax to 972-973-3453
4. Work cannot begin until you have received a signed and approved permit from our office.



High Pile Storage



DFW Airport Fire Prevention
3600 S 20th Ave
DFW Airport, Tx 75261
Phone: 972-973-3580
Email: FireMarshal@dfwairport.com

Issued To

Name:
Business Name:
Business Address:
Contact Number:
DCC Permit #:

Application Date:

Permits#

Type of work and Dates:
Work Location:

Current High-piled Combustible Storage Guidelines

General Requirements

1. Portable fire extinguishers- Shall be provided with a maximum travel distance of 75 feet to extinguisher.
2. Shelf storage - Greater than 12 feet but less than 15 feet in height shall be in accordance with the fire protection requirements set forth in NFPA 13. Shelf storage 15 feet or more in height shall be protected in an approved manner with special fire protection, such as in-rack sprinklers.
3. Rack storage - Bin boxes exceeding 5 feet in any dimension shall be regulated as rack storage.
4. Plastic pallets and shelves - Storage on plastic pallets or plastic shelves shall be protected by approved specially engineered fire protection systems.
Exception: Plastic pallets listed and labeled in accordance with UL 2335 shall be treated as wood pallets for determining required sprinkler protection.
5. Racks with solid shelving - Having an area greater than 32 square feet, measured between approved flue spaces at all four edges of the shelf.
6. Racks with mesh, grated, slatted or similar shelves having uniform openings not more than 6 inches, comprised of at least 50 percent of the overall shelf area, and with approved flue spaces are allowed to be treated as racks without solid shelves.

AUTOMATED STORAGE

1. Carousel storage - High-piled storage areas having greater than 500 square feet of carousel storage shall be provided with automatic shutdown.

GENERAL HOUSEKEEPING & MAINTENANCE

1. When required by the fire code official, an evacuation plan shall be maintained on the premises in an approved location.
2. The structural integrity of rack structures shall be maintained.
3. Clearance from ignition sources such as, luminaries, heaters, flame-producing devices and combustible material shall be maintained.
4. Smoking shall be prohibited in high-piled storage areas.
5. Arrays - Where an automatic sprinkler system design utilizes protection based on a closed array, array clearances shall be provided and maintained as specified by the standard used.
6. Flue spaces – 6-inches transverse flue space shall be provided at least every 10 ft. where ESFR sprinkler protection is provided. Random variations are allowed, provided that the configuration does not obstruct water penetration.
7. Fire protection and life safety features for high-piled storage areas shall be maintained and operational.

8. Rack storage clearance from sprinklers – Storage shall be maintained a minimum of 18-inches below sprinkler head deflectors.
9. Special fire protection provisions including, but not limited to, fire protection of exposed steel columns; increased sprinkle density; additional in-rack sprinklers, without associated reductions in ceiling sprinkler density; or additional fire department hose connections shall be provided when required by the fire code official.

Aisle Maintenance

1. When not restocking, aisles shall be kept clear of storage, waste material and debris.
2. Aisles providing access to exits and fire department access doors shall not be obstructed.
3. During manual stocking operations, a minimum unobstructed aisle width of 24 inches shall be maintained in 48-inch or smaller aisles, and a minimum unobstructed aisle width of one-half of the required aisle width shall be maintained in aisles greater than 48 inches.
4. During mechanical stocking operations, a minimum unobstructed aisle width of 44 inches shall be maintained.
5. Aisles crossing rack structures or storage piles, which are used only for employee access, shall be a minimum of 24 inches wide.
6. Aisles separating shelves classified as shelf storage shall be a minimum of 30 inches wide.
7. Aisles in sprinklered buildings shall be a minimum of 44 inches wide.
8. Clear height - The required aisle width shall extend from floor to ceiling. Rack structural supports and catwalks are allowed to cross aisles at a minimum height of 6 feet 8 inches above the finished floor level, provided that such supports do not interfere with fire department hose stream trajectory.
9. Dead-end aisles shall be no more than 20 feet in length or where the length of the dead-end corridor is less than 2.5 times the least width of the dead-end corridor.

DEFINITIONS

10. ARRAY - The configuration of storage. Characteristics considered in defining an array include the type of packaging, flue spaces, height of storage and compactness of storage.
11. ARRAY, CLOSED - A storage configuration having a 6-inch or smaller width vertical flue space that restricts air movement through the stored commodity.
12. COMMODITY - A combination of products, packing materials and containers.
13. HIGH-PILED COMBUSTIBLE STORAGE - Storage of combustible materials in closely packed piles or combustible material on pallets, in racks or on shelves where the top of storage is greater than 12 feet in height. When required by the fire code official, high-piled combustible storage also includes certain high-hazard commodities, such as rubber tires, Group A plastics, flammable liquids, idle pallets and similar commodities, where the top of storage is greater than 6 feet in height. HIGH-PILED STORAGE AREA - An area within a building which is designated, intended, proposed or actually used for high-piled combustible storage.
15. LONGITUDINAL FLUE SPACE - The flue space between rows of storage perpendicular to the direction of loading. TRANSVERSE FLUE SPACE - The space between rows of storage parallel to the direction of loading.
16. SHELF STORAGE - Storage on shelves less than 30 inches deep with the distance between shelves not exceeding 3 feet vertically. For other shelving arrangements, see the requirements for rack storage.
17. SOLID SHELVING - Shelving that is solid, slatted or of other construction located in racks and which obstructs sprinkler discharge down into the racks.



Applicant Signature

Issuing Official Signature

ID #

