



Dallas Fire-Rescue Department Inspection & Life Safety Education High Pile Storage Plan Review

A permit from the Dallas Fire-Rescue Department is required for high-piled storage. This checklist provides **some** of the basic information required to be submitted at the time of application for a permit. If you have any questions or concerns, call Dallas Fire-Rescue at 214-670-4319.

1. A \$160.00 permit is required to use a building or portion thereof as a high-piled storage area exceeding 500 square feet. A separate permit is required for each location.
2. Permit expires one year from the date of issuance.
3. The occupancy must have a valid certificate of occupancy issued from Building Inspection.
4. High-piled combustible storage is defined as storage of combustible materials in closely packed piles or on pallets, in racks or on shelves where the top of storage is greater than 12 feet in height. Certain high-hazard commodities such as rubber tires, Group A plastics, flammable liquids, and idle pallets are considered high-piled combustible storage where the top of storage is greater than 6 feet in height.

Any Group S occupancy exceeding 12,000 square feet that has a clear height in excess of 12 feet, making it possible to be used for storage in excess of 12 feet in height, is considered to be high-piled storage.

5. High-piled storage area is defined as an area within a building which is designated, intended, proposed or actually used for high-piled combustible storage.
6. High-piled storage must be in compliance with Chapter 23 of the Dallas Fire Code and any other chapter of the Dallas Fire Code regulating high-piled storage.
7. **At the time of building permit application or at the time of application for storage permit, plans and specifications must be submitted for review and approval.** The applicant must provide the name and address of the company insuring the occupancy and the company that services the automatic sprinkler system.

Also required to be submitted is a letter from a company licensed to work on automatic sprinkler systems or from a fire protection engineer describing the design of the sprinkler system and how the commodities are currently stored. The letter must state that the system is designed to adequately protect the commodities.

The letter must include:

- A. Floor plan of the building (showing location and dimensions of high-piled storage areas)
- B. Commodity type (location, classification, and describe what is the commodity, such as paper records in cardboard boxes)
- C. Maximum pile volume for each storage array
- D. Useable storage height for each storage area
- E. Racks
 - i. Size (length and depth)
 - ii. Dimension and location of flue spaces (transverse and longitudinal)
 - iii. Type of shelving used (pallets, wire mesh, plywood or solid shelving)
 - iv. Size of solid shelves (4 ft. x 4 ft., etc.)
- F. Aisle dimensions between each storage array
- G. Location of commodities which are banded or encapsulated
- H. Commodity clearance between top of storage and the sprinkler deflector for each storage arrangement
- I. Sprinkler design (data needed)
 - i. Sprinkler design density given as decimal figure (example: .30 gpm/sq.ft.)
 - ii. Design remote area in square feet (example: 2500 sq. ft.)
 - iii. Flow required in gpm (example: 867 gpm)
 - iv. Pressure required in psi (example: 78 psi)
 - v. Pressure on the lower gauge of the sprinkler riser

No permit will be issued until this letter has been reviewed by the fire code official and until the site has been inspected for compliance with the Dallas Fire Code.