



**HIGH-PILED / HIGH RACK STORAGE**  
**Royse City Fire Department - Fire Marshal's Office**  
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These guidelines are intended to provide the minimum submittal requirements for obtaining a High-Pile/High-Rack Storage Permit. Additional requirements and/or information may be required based on the individual project.

All High-Pile/High-Rack combustible storage for the purposes of these guidelines and any other guidelines or requirements of the Fire Marshal's Office shall conform to the 2018 International Fire Code, as adopted and amended by the City of Royse City.

These guidelines do not replace, nor supersede any codes and/or ordinances adopted by the City of Royse City or determinations and positions of the Royse City Fire Department.

### **General Requirements**

- ❖ High-Piled/High-Rack storage is the storage of combustible materials in closely packed piles or combustible materials on pallets, in racks, or on shelves where the top of storage is greater than 12 feet in height
- ❖ 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
- ❖ A rack storage plan is required prior to fire sprinkler plan approval
- ❖ The construction documents for a High-Pile/High-Rack Storage Permit may be concurrently submitted for review with the building plans, providing all of the below information is provided

### **Submittal Requirements**

- ❖ Each submittal shall have a completed Royse City Fire Department Permit Application
- ❖ A P.E. seal is required on all construction/specification plans
- ❖ Plan submittal package shall include the following:
  - A scaled copy of the Site Plan
  - Floor plan of the building showing locations and dimensions of High-Pile/High-Rack storage areas, and any fixtures
  - Usable storage height for each storage area
  - Number of tiers within each rack, if applicable
  - Commodity clearance between top of storage and the sprinkler deflector for each storage arrangement
  - Aisle dimensions between each storage array
  - Maximum pile volume for each storage array
  - Construction and engineering drawings for the rack system
  - Location and classification of commodities in accordance with IFC Section 2303
  - Location of commodities, which are banded or encapsulated
  - Location of required fire department access doors
  - Type of fire suppression and fire detection systems
  - Location of valves controlling the water supply of ceiling and in-rack sprinklers
  - Type, location, and specifications of smoke removal and curtain board systems
  - Dimensions and location of transverse and longitudinal flue spaces
  - Additional information regarding required design features, commodities, storage, and fire protection features within High-Pile/High-Racked storage area shall be provided at the time of permit when required by the code official