City of Riverside Fire Department High Piled Storage Application

The 2007 California Fire Code, Chapter 23 requires that any high-piled storage in an area within a building which is designated, intended, proposed or actually used for high piled combustible storage shall obtain a permit.

The City of Riverside Building & Safety Department requires a building permit for any racks, shelving, gondolas etc. 5'9" or more in height. If a permit has not been obtained you will be required to submit a plan for approval and permit to the City of Riverside Building and Safety Department. You can contact them at (951) 826-5697 with any questions.

At the time of permit application, plans and specifications including the information below shall be submitted for review and approval. Following approval of the plans, a copy of the approved plans shall be maintained on the premises in an approved location. The underlined words are definitions that will help you with the application. The plans shall include the following:

- Floor plan of the building showing locations and dimensions of high-piled storage areas.
- Useable storage height for each storage area and the maximum ceiling height.
- 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 (cubic feet) for each storage array.
- Show the locations of where specific products will be stored.
- Indicate if any of the products will be non-encapsulated or encapsulated. Encapsulated is a method of packaging consisting of a plastic sheet completely enclosing the sides and top of a pallet load. The term encapsulated does not apply to banding or individual plastic-enclosed items inside a large nonplastic-enclosed container.
- Location of required fire department access doors.
- Type of fire suppression system and fire detection systems.
  - Wet fire sprinkler system
    - Sprinkler design density (located on the fire sprinkler riser)
    - Fire sprinkler temperature for each type (in the spare head box next to the fire sprinkler riser)
    - In-rack fire sprinklers and how many levels
  - Hose cabinet locations
  - Smoke detectors and/or heat detectors
- Type, location and specifications of smoke removal. Must include details of the smoke and heat vents.
- Dimensions and locations of transverse and longitudinal flue spaces. Transverse flue space is the space between rows of storage parallel to the direction of loading. Longitudinal flue space is the space between rows of storage perpendicular to the direction of loading.
- Curtain board locations and the depth. Curtain board is a structure arranged to limit the spread of smoke and heat along the ceiling. Curtain boards are sometimes referred to as draft stops.

Comments: