



LAS VEGAS FIRE & RESCUE

Fire Prevention Division

Information Sheet



The items listed are basic information only. Please refer to adopted codes for specific details. Codes are subject to change. Additional requirements may apply.

Effective Date: January 5, 2026

Submittal Guide for High Piled Storage Permits

As defined by the International Fire Code, High Piled 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. 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.

(NOTE: Higher sprinkler design densities are required by NFPA 13 in storage occupancies for Group A plastics stored higher than 5 feet). These commodities can have a substantial impact on the facility, responding fire crews, and surrounding occupancies in the event of a fire or collapse.

The following is a standard list of items that shall be identified and submitted for permit by LVFR Fire Engineering:

- Floor plan of the building showing locations and dimensions of *high-piled* storage areas.
- Usable storage height for each storage area.
- Number of tiers within each rack, if applicable.
- Commodity clearance between the top of the storage and the sprinkler deflector for each storage arrangement.
- Aisle dimensions between each storage array.
- Maximum pile volume for each storage array.
- Location and classification of commodities in accordance with IFC Section 3203.
- Location of commodities which are banded or encapsulated.
- Location of required fire department access doors and exit signs.
- Type of fire suppression and fire detection systems.
 - For density/area fire sprinklers protecting the high-piled storage area, indicate the sprinkler identification number (SIN), the sprinkler k factor, square footage of the remote area, and the system design density. If the SIN is not available, a copy of the manufacturer specification sheet for the sprinkler head is required.
 - For specific application sprinklers, such as large-drop and ESFR sprinklers, protecting the high-piled storage area, indicate the sprinkler identification number (SIN), the sprinkler k factor, the number of sprinkler heads in the remote area, and the minimum residual pressure provided at the most hydraulically demanding sprinkler head. If the SIN is not available, a copy of the manufacturer specification sheet for the sprinkler head is required.
- Location of valves controlling the water supply of ceiling and in-rack sprinklers.
- Type, location and specifications of smoke removal and curtain board systems.
- Dimension and location of transverse and longitudinal flue spaces.

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- Additional information regarding required design features, commodities, storage arrangement and fire protection features within the high-piled storage area shall be provided at the time of submittal.
- Type of shelving material used, whether it is solid, slatted, or wire mesh.
- Indicate path of travel for all storage areas to the exits. (Building & Safety Department)
- Structural documents for rack installation. (Building & Safety Department)
- Firefighting water supplies & verification of sufficient fire flow provided for the building, when required by the fire code official.
- Indicate path of travel for all storage areas to the exits.