



***Required Information For
High-Piled Combustible Storage***

(Combustible material storage greater than 12 feet in height, or 6 feet for high-hazard commodities)

(See Chapter 32 of the 2024 International Fire Code and NFPA 13, 2022 Edition for specific code requirements.)

1. **Chapter 32 of the International Fire Code. Plans and specifications submittal.** At the time of permit application, plans and specifications including the information specified in Section 3201.3 shall be submitted for review and approval. The plans shall include the following:
 - 1) Floor plan of the building showing locations and dimensions of high-piled storage areas.
 - 2) Useable storage height for each storage area, AND Minimum Ceiling/Roof Deck Height.
 - 3) Number of tiers within each rack, if applicable. Indicate if there is solid shelving.
 - 4) Commodity clearance between top of storage and the sprinkler deflector for each storage arrangement.
 - 5) Aisle dimensions between each storage array.
 - 6) Maximum pile volume for each storage array.
 - 7) Location and classification of commodities in accordance with Section 3203.
 - 8) Location of commodities which are banded or encapsulated.
 - 9) Location of required fire department access doors.
 - 10) Type of fire-suppression and fire-detection systems.
 - Include: Fire Sprinkler System: Design Density (GPM/sq.ft.), Temperature Rating of Sprinkler Heads, Sprinkler Head "K-Factor" and Minimum Sprinkler Operating Pressure.
 - 11) Location of small hose connections, valves controlling the water supply of ceiling and in-rack sprinklers.
 - 12) Type, location and specifications of smoke-removal and curtain board systems. (Not required with ESFR Fire Sprinkler Systems.)
 - 13) Dimension and location of transverse and longitudinal flue spaces.
 - 14) 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 permit, when required by the fire code official.

**Provide all information & data requested or the plan review
process may be delayed.**

See over page for plan submittal worksheet

**Reno Fire Department
Storage Permit Application Worksheet**

Item	Information Required	Information Provided			
1	Floor Plan of entire building.	YES	NO		
	a. Scalable Floor Plan of Storage Occupancy	YES	NO		
	b. Dimensions of High-Piled Storage Area (Rack and/or shelving Area <u>PLUS</u> 15 feet beyond in any open direction)	Ft. Area:	in.	Ft. Sq. Ft.	In.
	c. Location of Smoke/Heat Vents (Not required with ESFR fire sprinkler systems)	YES	N/R*		
	d. Location of Curtain Boards (Not required with ESFR fire sprinkler systems)	YES	N/R*		
	e. Location of Fire Department Access Doors	YES	N/R*		
	f. Aisle Dimension between storage arrays/racks	Ft.	in.		
	g. Location of Small Hose Stations if provided.				
	h. Location of Fire Sprinkler Riser and System Control Valves	YES	NO		
2	Minimum Height from floor to ceiling/roof deck	Ft.	in.		
3	Maximum Storage Height	Ft.	in.		
4	Elevation View of Storage Racks or Shelves, Number or Tiers				
	a. Solid Shelving? (Circle correct answer)	YES	NO		
	b. Dimension and Location of Flue Spaces	YES	N/R*		
5	Clearance between Top of Storage and Sprinkler Deflectors				
6	Location and Classification of Commodities (IFC 3203)				
	a. Class I Commodities	YES	NO		
	b. Class II Commodities	YES	NO		
	c. Class III Commodities	YES	NO		
	d. Class IV Commodities	YES	NO		
	e. High-Hazard Commodities	YES	NO		
	f. Group A Plastics	YES	NO		
	g. Group B Plastics	YES	NO		
	h. Group C Plastics	YES	NO		
7	Location of Commodities Banded or Encapsulated		Cu.ft.		
8	Maximum Solid Pile/Shelf Storage Volume for each storage array				
9	Fire Sprinkler System Data:				
	a. Design Density, Ceiling		Gpm/ft ²		
	b. Temperature Rating, Ceiling Sprinkler Heads		°F		
	c. K-Factor of Sprinklers (i.e.: 8.0, 11.2, 14, 16.8, 25.2, etc.)		K =		
	d. Minimum Sprinkler Operating Pressure (i.e.: 15, 25, 50, 75)	Pressure =	psi		
	e. In-Rack Sprinklers? (Circle correct answer)	YES	N/R*		
	f. Temperature Rating, In-Rack Sprinkler Heads (If required)		°F		

*= Not required

IMPORTANT NOTE: A response to all the above-listed items must be provided in order to process your application for a High-Piled Rack or Shelving Storage Plan.

Please provide the appropriate information or mark a response as N/R if not required.