



COALINGA FIRE DEPARTMENT

GREG DUPUIS, FIRE CHIEF

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CITY OF COALINGA FIRE DEPARTMENT		
FIRE PREVENTION STANDARD		
STANDARD TITLE:	402.006 HIGH PILED STORAGE PLAN SUBMITTALS	
STANDARD NUMBER: 402.006	EFFECTIVE DATE: 1 December 2021	REVISION DATE: 1 December 2021

PURPOSE

The purpose of this policy is to clarify minimum requirements for plan review for high-piled storage.

APPLICATION

This policy applies to o buildings that have high-piled storage within the Coalinga Fire Department's (CFD or Department) jurisdiction.

OPERATIONAL POLICY

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OPERATIONAL GUIDELINE

Rack Storage General Requirements

1. Building permits are required for all racks that are greater than five (5) feet, nine (9) inches in height.
 - a. Anchoring details are required for all racks between five feet, nine inches and eight feet in height.
 - b. Engineered structural and anchoring calculations and details are required for all racks that are greater than eight feet in height.
2. A High-Piled-Rack Storage Worksheet is to be completed and submitted to the Department for review. See CPD-F-32 – CFC Chapter 32: High-Piled/Rack Storage Worksheet.
3. A typical rack submittal requires the following:
 - a. Site plan
 - b. Floor plan
 - c. Rack and vent layout (where required) to include rack dimensions
 - d. Calculations for anchoring and structural configuration
4. A Department use permit is required for any high-piled combustible storage in excess of five hundred square feet of floor area.



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5. It is recommended that the services of a licensed architect or engineer be used in the preparation of high-piled or rack storage plan submittals.

All High-Piled Storage Plan submittals

Submit plans to the City of Coalinga Development and Resource Management Department (DARM) addressing the following:

1. Floor plan of building showing fire department access doors.
2. Smoke/heat vent plan with details and specifications of smoke/heat vents. If an Early Suppression, Fast Response ESFR sprinkler system is specified, smoke/heat vents are not required. If an ESFR sprinkler system is being installed, it is to be noted on the plans.
3. Useable storage height for each storage area (to ceiling height of building).
4. Distances (specify distance) between top of storage and sprinkler deflectors.
5. Sprinkler design density and curve.
6. Maximum pile volume for each storage array.
7. Location of commodities which are banded or encapsulated.
8. Type of commodity to be stored and packing arrangement (i.e., cardboard, foam, encapsulated).
9. Location and classification of commodities in accordance with California Fire Code (CFC).
10. Valve locations for fire sprinkler system.

Note: Structural columns within high-piled storage/racks may require special fire protection.

High-Piled Rack Storage Plan submittals

In addition to the above information, the following information is to be provided on rack storage plan submittals:

1. Structural integrity: Obtain structural approval(s) from the City of Coalinga; Building and Safety Services Division.
2. Floor plan of building showing locations and dimensions of high-piled storage racks.
3. Dimension and location of transverse and longitudinal flue spaces.
4. Aisle dimensions between each storage array.
5. Number of tiers within each rack and configuration (i.e., single, double, multirow).



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6. Configuration of storage in racks (i.e., pallets, shelving, bin boxes).

PROCESS

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INFORMATION

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DEFINITIONS

1. High-Piled Combustible Storage: High-piled combustible storage is 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 twelve 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 six feet in height. (CFC, Chapter 2).

CROSS REFERENCES

California Fire Code

Chapter 2, Definitions

Chapter 32, High-Piled Combustible Storage

Coalinga Fire Department Forms

CPD-F-32 CFC Chapter 32: High-Piled/Rack Storage Worksheet