

CITY OF SPRINGFIELD, OREGON

DEVELOPMENT AND PUBLIC WORKS
Building Safety Division

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Oregon Structural Specialty Code High-Piled Storage

Sumbittals can be submitted under a Structural Permit, and will be reviewed by both Building and Fire

High-Piled Combustible Storage: Storage of combustible materials in closely packed piles or combustible materials on pallets, in racks or on shelves where the top of the storage is greater than 12-feet (3658 mm) in height. Where required by the building 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 the storage is greater than 6-feet (1829 mm) in height.

OSSC Section 435.2: Submittal requirements on construction documents

1	Floor plan of the building showing locations and dimensions of high-piled storage areas.
2	Usable storage heights for each storage area.
3	Number of tiers within each rack, if applicable
4	Commodity clearance between the top of storage and the sprinkler deflector for each storage compartment
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 435.3 *See also 435.4 for Designation based on Engineered Analysis
8	Location of commodities that are banded or encapsulated
9	Location of required fire department access doors
10	Type of fire suppression and fire detection system.
11	Location of valves controlling the water supply of ceiling and in-rack sprinklers
12	Type, location and specifications of smoke removal and curtain board systems.
13	Dimensions and locations of transverse and longitudinal flue spaces.
14	Additional information regarding required design features, commodities, storage arrangements and fire protection features within the high-piled storage area shall be provided at the time of permit, where required by the building official.
15	Interior elevation/section views identify max. height markers at walls SFC 3205.6

See Oregon Structural Specialty Code section 435 for all requirements pertaining to these systems. High-piled storage racking systems are also addressed in Springfield Fire Code Section 3205