



High Piled Combustible Storage Evaluation

The City of Plymouth Building Inspection Division has established a policy for buildings and portions of buildings containing high piled combustible storage.

High piled combustible storage is defined as: 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 of commodity classes I-IV (see attached pages); or the storage of high hazard commodities such as rubber tires, group A plastics, flammable liquids, idle pallets, etc. that exceed 6 feet in height.

PLEASE NOTE:

1. All new buildings and portions thereof, having a building permit issuance after January 1, 1993 must comply with all of the requirements set forth in the Minnesota State Fire Code for high piled storage.
2. All existing buildings and portions thereof, having a building permit issuance date prior to January 1, 1993 that were originally designed and constructed for high piled storage, must continue to comply with all of the requirements set forth in the Minnesota State Fire Code for high piled storage.
3. All existing buildings and portions thereof, having a building permit issuance date prior to January 1, 1993 need only comply with the automatic fire sprinkler

requirements of the Minnesota State Fire Code (Chapters 9 & 32), and the National Fire Protection Standard 13.

It is required that you complete this form prior to the issuance of a building permit. Completion of this form will allow our department to verify compliance with fire sprinkler code requirements. This form must be completed and signed by a management representative of the tenant.

Building _____

Address _____

Tenant Name _____

Phone Number _____

Owner Rep. _____

Phone Number _____

Please Continue to Section 1

Section 1

PLEASE CHECK THOSE THAT APPLY:

A. ___ There will be no combustible storage on pallets, in racks or on shelves exceeding 12 feet in height of Class I - IV commodities.

B. ___ There will be no combustible storage on pallets, in racks or on shelves exceeding 6 feet in height of high hazard commodities.

C. ___ There will be storage exceeding 12 feet in height on pallets, in racks or on shelves of Class I – IV commodities.

D. ___ There will be storage exceeding 6 feet in height on pallets, in racks or on shelves of high hazard commodities.

If you checked items **A & B** – simply sign and return this form. All other information sheets can be discarded since no high piled storage will be present.

If you checked items **C & D** you must complete **Section 2** of this form.

Signature: _____

Date: _____

Section 2

REQUIRED INFORMATION FOR SPRINKLER EVALUATION

Maximum height of storage on racks: _____

Maximum height of piled storage: _____

Height of top shelf for rack storage: _____

Clear height from floor to roof deck: _____

Clear height from floor to bottom of bar joist: _____

Minimum aisle width: _____

Total square feet of warehouse: _____

Total square feet of high piled storage area inside of the warehouse, including all aisle spaces, and a 10 foot perimeter beyond the storage area: _____

Type of ceiling structure (check one):
Combustible _____ Noncombustible _____

Type of rack (check which applies):
Single row _____ Double row _____ Multi-row _____

Type of shelving on racks (check which applies): Solid _____ Open _____ Slatted _____
Wood pallets _____ Plastic pallets _____

Idle pallets (check which applies):
Wood _____ Plastic _____ Other _____
Storage location _____

Section 2 Continued

Please provide a detailed description of the product being stored, including the type of packaging. The proper classification is critical in determining the appropriate sprinkler design density. Any other supporting information such as pictures or samples will help to assure that the commodities are properly classified.

EXISTING SPRINKLER INFORMATION

The following existing sprinkler information is required for proper evaluation. The existing sprinkler system design and density information is normally located on the sprinkler system risers. If the information is not located on the risers, an approved fire sprinkler contractor must evaluate the system design and density. Please forward the system evaluation to the Fire Inspector.

The current design and density rating of the sprinkler system:_____

Temperature ratings in degrees Fahrenheit of the sprinkler heads:_____

Area of coverage in square feet as designed for each sprinkler head:_____

Type of sprinkler head installed (check one):
Upright___ Pendant___ Large drop___
ESFR___ Other (describe)_____

Brand name of sprinkler head installed:

Model number of sprinkler head installed:

K factor of sprinkler head installed:_____

Sprinkler system type (check one):
Wet pipe___ Dry pipe___ Pre-action___

Other (describe)_____

Section 2 Continued

EXISTING SPRINKLER INFORMATION

Design method of sprinkler system (check one): Hydraulic calculation____
Pipe schedule____

Area of coverage per riser in square feet:

Total number of risers covering high piled storage area:_____

Detailed plan of facility with the rack layout is provided (check one): Yes____ No____

If no, please explain why not:_____

Signature of applicant:

Date:_____

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System complies with proposed storage (check one): Yes____ No____

Reviewed by:_____

Date:_____