



Village of Huntley
Development Services
Department
10987 Main Street
Huntley, Illinois 60142

Phone: 847-515-5252
Email: INSPECTIONS@HUNTLEY.IL.US
www.huntley.il.us

COMMERCIAL WAREHOUSE RACKING GUIDELINES



A building permit is required for racking unless it meets the exemption below. All racking must be anchored to resist overturning. Anchorage details must be prepared by a licensed design professional. The design professional must indicate when special inspection is required per IBC Chapter 17.

Work Exempt from Permit:

Non-fixed and movable cases, racks, counters not over 5 ft. 9 in. in height.

When applying for a permit, please provide the following information:

- A completed Permit Application.
- A copy of the contractor's quote or proposal is required.
- The general contractor shall be registered with the Village.
- One set of structural calculations, fabrication, and erection plans signed and seal by an Illinois licensed engineer or architect shall be submitted.
- Please list the product(s) to be stored, identify the quantity and weight of materials being stored (per shelf, as applicable) and how product is packaged (ex. shrink-wrapped, on pallets, etc.)

❖ On the drawings:

- ✓ Provide a complete floor plan layout showing the location of racking and/or conveyor systems within the space. The floor plan shall also indicate the total travel distance to each exit door.
- ✓ Provide a drawing showing the emergency lighting along with a photometric layout that will comply with section 1008.1 2018 IBC (Means of egress illumination).
- ✓ Racking and/or conveyor systems shall not obstruct the original lighting layout. Provide a photometric layout that will comply with section 1204.3 2018 IBC (Artificial Lighting).
- ✓ Identify the maximum design capacity of the storage shelves.



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- ✓ In addition to the gravity loads shown in the submittal, the structural calculations shall include anticipated horizontal impact loads. Seismic calculations will be accepted in lieu of anticipated loading impacts from use.
- ✓ A minimum of 36" inches of space needs to be provided above product being stored on rack and ceiling for sprinklers.
- ✓ Enclosing of the shelving or utilizing solid shelving may change the requirements for sprinkler protection for the area.
- ✓ Racking elevations shall include height of top rack and total height of product stored.
- ✓ Exit routes must be shown on plans – onsite inspection of these routes may be verified during inspections.
- ✓ Exit signs are to be located at the end of each aisle. Signs are to be illuminated, and have a backup power source.
- ✓ Sufficient emergency lighting fixtures shall be supplied to indicate and illuminate all required exit access and exit discharge areas.
- ✓ Entire path to be illuminated to a minimum of 1-foot candle to the floor.

Please Note:

- The Village of Huntley and the Huntley Fire District reserve the right to require additional exit lighting, alarm device, or sprinkler requirements if at the time of the final inspection any exit lighting or device is obstructed or reduced to the point that the device does not comply with our adopted codes nor function per manufacturers' requirements.
- If sprinkler system needs to be modified, a separate sprinkler permit application along with drawings needs to be electronically submitted with device specifications and hydraulic calculations.
- If fire alarm system needs to be modified, a separate fire alarm permit application along with drawings needs to be electronically submitted with device specifications as well as battery calculations showing battery standby time at 60 amp/hours.
- Used racking and/or conveyor systems are allowed to be erected as long as an engineer has inspected and labeled each piece of racking and/conveyor systems. All used racking and conveyor systems shall be noted on the drawings by the engineer of record.

