

Jason Mechanical Corp

Tool Box Safety Talk

Material Hoists & Personnel Hoists

All hoists used on the job site must be operated within the limitations established by the manufacturer. Rated load capacities, recommended operating speeds, and special hazard warnings or instructions shall be posted on cars and platforms.

Wire rope (hoisting rope) must be removed from service when any of the following conditions exist:

- a. six randomly distributed broken wires in one rope lay or three broken wires in one strand in one rope lay.
- b. abrasion, scrubbing, flattening, or peening, causing loss of more than one-third of the original diameter of the outside wires.
- c. evidence of any heat damage resulting from a torch or any damage caused by contact with electrical wires.
- d. reduction from nominal diameter of more than $3/64$ " for diameters up to and including $3/4$ ".
- e. reduction from nominal diameter of more than $1/16$ " for diameters $7/8$ " to $1\ 1/16$ ".
- f. reduction from nominal diameter of more than $3/32$ " for diameters $1\ 1/4$ " to $1\ 1/2$ ".

Hoisting ropes shall be installed in accordance with the wire rope manufacturer's recommendations. The installation of live booms on hoists is prohibited. The use of endless belt-type manlifts on construction shall be prohibited.

Material Hoists:

Operating rules must be posted at the operator's station of the hoist including the signal system to be used and the allowable line speed for various loads. Rules and notices shall be posted on the car frame or crosshead in a conspicuous location, including the statement "No Riders Allowed."

No person shall be allowed to ride on material hoists except for the purposes of inspection and maintenance.

All entrances of the hoistways shall be protected by substantial gates or bars which shall guard the full width of the landing entrance. All hoistway entrance bars and gates must be painted with diagonal contrasting colors.

Gates or bars protecting the entrances to hoistways must be equipped with a latching device. Overhead protective covering of 2" planking, $3/4$ " plywood, or equivalent must be provided on the top of every material hoist cage or platform.

The operator's station of a hoisting machine must be provided with overhead protection equivalent to tight planking not less than 2" thick. The support for the overhead protection shall be of equal strength.