

## **4123:1-5-15 Hoisting and haulage equipment.**

- (A) Equipment such as slings, hoisting or haulage lines, wire rope, natural or synthetic fiber rope, chain, metal mesh and synthetic web, and attachments used to handle material or equipment shall be used in accordance with the manufacturer's recommendations.
- (B) Equipment shall be removed from service when there is evidence of a defect, damage, or distortion which may weaken such equipment.
- (C) All such equipment shall have a safety factor of no less than five.
- (D) Employees shall not be required to work or pass under suspended loads, nor shall the crane operator be required to carry a suspended load over employees.
- (E) Manila rope and other fiber rope shall not be used when handling acid- or caustic-contaminated material or objects.
- (F) Eyes in wire rope slings shall not be formed by using knots. Eyes in wire rope slings for general repetitive use shall not be formed by using wire rope clips. For special purpose unusual lifts, wire rope clips may be used to fabricate wire rope slings, provided the wire rope clips' manufacturer's recommendations are followed. When a newly installed rope has been in operation for an hour, all nuts on the clip bolts shall be re-tightened.
- (G) The use of chain as a sling or choker in erection of steel is prohibited.
- (H) The sheave diameter shall be no less than that recommended in the manufacturer's specifications for the size of rope used. Sheaves or pulleys with eccentric bores, or with cracked hubs, spokes, or flanges shall be repaired or removed from service.

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