
29 C.F.R. § 1926.1414

Wire rope—selection and installation criteria.

- (a) Original equipment wire rope and replacement wire rope must be selected and installed in accordance with the requirements of this section. Selection of replacement wire rope must be in accordance with the recommendations of the wire rope manufacturer, the equipment manufacturer, or a qualified person.
- (b) *Wire rope design criteria:* Wire rope (other than rotation resistant rope) must comply with either Option (1) or Option (2) of this section, as follows:
- (1) *Option (1).* Wire rope must comply with section 5-1.7.1 of ASME B30.5-2004 (incorporated by reference, see § 1926.6) except that section's paragraph (c) must not apply.
- (2) *Option (2).* Wire rope must be designed to have, in relation to the equipment's rated capacity, a sufficient minimum breaking force and design factor so that compliance with the applicable inspection provisions in § 1926.1413 will be an effective means of preventing sudden rope failure.
- (c) Wire rope must be compatible with the safe functioning of the equipment.
- (d) *Boom hoist reeving.* (1) Fiber core ropes must not be used for boom hoist reeving, except for derricks.
- (2) Rotation resistant ropes must be used for boom hoist reeving only where the requirements of paragraph (e) (4)(ii) of this section are met.

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