

**WAC 296-96-24121 Machinery beams and supports.** (1) All machinery and sheaves shall be sufficiently secured and supported to prevent any part from becoming loose or displaced. Beams directly supporting machinery shall be made of steel, sound timber or reinforced concrete.

(2) Beams and support loads shall be computed as follows:

(a) The total load on the beams shall be equal to the weight of all apparatus resting on the beams plus twice the maximum load suspended from the beams.

(b) The load resting on the beams shall include the complete weights of the driving machine, sheaves, controller, etc.

(c) The load suspended from the beams shall include the sum of the tensions in all ropes suspended from the beams.

(3) The elevator driving machine or sheaves shall not be fastened to the underside of the supporting beams at the top of the hoistway.

EXCEPTION: Cast iron in tension shall not be used for supporting members for idler and deflecting sheaves where hung beneath beams.

(4) The factor of safety for beams and support shall be no less than:

(a) 5 For steel; and

(b) 6 For timber and reinforced concrete.

[Statutory Authority: Chapter 70.87 RCW. WSR 18-18-070, § 296-96-24121, filed 8/31/18, effective 10/1/18.]