

481—462.4(88A) Design and manufacture of covered equipment. This rule sets forth requirements for the design and manufacture of all covered equipment, except a bungee jump covered by 481—Chapter 463.

462.4(1) Codes adopted by reference. ASTM F2374-10 applies to all air-supported structures notwithstanding the definition and use of the phrase “inflatable amusement device” in ASTM F2374-10.

a. All covered equipment. Equipment will comply with National Electric Code, NFPA 70-2014.

b. Tramways. All tramways subject to the rules of this chapter will be designed and tested in accordance with the ANSI B77.1 standard in effect at the time of installation.

c. New covered equipment. New covered equipment and covered equipment undergoing a major modification will be designed and tested in accordance with ANSI B77.1-2011 and ANSI B77.1A-2012 and ASTM F1159-15a, F1193-14, F1957-99(2011), F2007-12, F2137-15, F2291-15, F2374-10, F2375-09, F2376-13, F2460-11, F2959-14, and F2960-15, as applicable.

d. Existing covered equipment. Covered equipment manufactured before July 1, 2016, must comply with the applicable design criteria of subrule 462.4(2) through July 1, 2021. After July 1, 2021, covered equipment, except tramways, will meet the criteria for service-proven equipment set forth in ASTM F2291-15.

462.4(2) Design criteria. Structural materials and construction of covered equipment will conform to recognized engineering practices, procedures, standards and specifications. The design, materials and construction features will incorporate a safety factor of 5 or alternative safety factors recommended by the original manufacturer or by a professional engineer with credentials and experience acceptable to the director.

462.4(3) Front openings and awnings. Front openings and awnings will be stabilized with safety latches, safety pins, or other devices.

462.4(4) Shooting galleries. A shooting gallery will use only equipment, shells, pellets, and bullets designed for shooting galleries. Means will be provided to prevent turning the weapon away from the intended target.

462.4(5) Flying objects. Where flying objects, such as darts, balls, pellets, shot, and bullets, are a potential hazard:

a. Ricocheting will be prevented by absorbent wings or panels; and

b. Absorbing walls, sandbags, or other mechanisms will be installed along the bottom, back, and sides of the booth to protect passersby.

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