

DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES LICENSING AND REGULATORY AFFAIRS

BUREAU OF SAFETY AND REGULATION DIRECTOR'S OFFICE

CONSTRUCTION SAFETY STANDARDS COMMISSION

Filed with the Secretary of State on January 9, 2013

~~These rules take effect 15 days after filing with the Secretary of State~~

**These rules become effective immediately upon filing with the Secretary of State unless adopted under section 33, 44, or 45a(6) of 1969 PA 306. Rules adopted under these sections become effective 7 days after filing with the Secretary of State.**

(By authority conferred on the **director of the department of licensing and regulatory affairs** ~~construction safety standards commission~~ by sections 19 and 21 of **1974 PA Act No. 154 and Executive Reorganization Order Nos. 1996-2, 2003-1, 2008-4, and 2011-4, MCL 445.2001, 445.2011, 445.2025, and 445.2030**) of the Public Acts of 1974, as amended, being ~~SS408.1019 and 408.1021~~ of the Michigan Compiled Laws)

R 408.42149, R 408.42156, R 408.42157, and R 408.42159 of the Michigan Administrative Code are amended, and R 408.42131, R 408.42145, and R 408.42160 are rescinded, as follows

PART 21. GUARDING OF WALKING AND WORKING AREAS

R 408.42131. ~~Roof work~~ **Rescinded.**

~~Rule 2131. (1) An employer working on a high-pitched roof shall be provided with and use either roofing brackets and a working plank or a crawling board, regardless of the ground-to-eave height.~~

~~(2) An employer shall protect employees working on a dome-type roof as prescribed in Part 45. Fall Protection, being R 408.44501 et seq. of the Michigan Administrative Code.~~

~~(3) The portion of a roof where employees are working shall be kept free of ice, snow, or other slippery conditions.~~

R 408.42145 ~~Hatchway and chute floor openings~~ **Rescinded.**

~~Rule 2145. (1) A hatchway or chute floor opening that is less than 39 inches above the floor shall be guarded by either of the following:~~

~~(a) A hinged cover and a fixed guardrail on not less than 2 sides. When the opening is not in use, the cover shall be closed or a removable guardrail shall guard the exposed side.~~

~~(b) A removable guardrail on 2 sides and fixed guardrail on the other 2 sides. The removable guardrail shall be kept in place when the opening is not in use.~~

~~(2) When dumping from mechanical equipment or a wheelbarrow, the exposed edge of the hatchway, chute opening, or open-sided floor shall be protected by a bumper. The bumper shall be not less than 6 inches nominal size and shall be secured to the floor.~~

R 408.42149 Stairways.

Rule 2149. (1) A stairway shall be equipped with a stair railing or handrail as follows:

(a) A stairway which is not more than 44 inches wide and which has enclosed sides shall have a handrail on the right descending side.

(b) A stairway which is not more than 44 inches wide and which has 1 open side shall have a stair railing on the open side.

(c) A stairway which is not more than 44 inches wide and which has 2 open sides shall have a stair railing on each side.

(d) A stairway that is more than 44 inches wide shall have 1 handrail on each enclosed side and 1 stair rail on each open side.

(e) A stairway that is 88 or more inches wide shall have 1 handrail on each enclosed side, 1 stair rail on each open side, and 1 intermediate stair rail located in the middle of the stairway.

(2) Where a door or gate opens directly on a stairway more than 6 feet in height and is used as a required means of egress, a stair landing shall be provided. The swing of the door shall not reduce the landing which leads to the stairway to less than 20 inches unless specified in another code.

~~(3) Debris and other loose material shall not be permitted on a stairway.~~

R 408.42156 Handrail specifications.

Rule 2156. (1) A handrail shall be of a configuration that provides a handhold when grasped to avoid a fall and shall follow the slope of the stairway.

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(2) A handrail shall be vertically installed not more than 37, nor less than 30, inches above the front edge of the treads.

(3) When the top edge of a stair rail system also serves as a handrail, the height of the top edge shall be not more than 37 inches (94cm) nor less than 36 inches (91.5cm) from the upper surface of the stair rail system to the surface of the tread and in line with the face of the riser at the forward edge of the tread.

~~(4) A handrail shall be supported by brackets to a distance of not less than 1 1/2 inches from any object. The assembly of handrail and brackets shall withstand a load of not less than 200 pounds applied in any direction.~~

~~(5) A handrail shall have a smooth surface along the top and sides and the ends shall not present a projection hazard.~~

~~(5)(6) Handrails that will not be a permanent part of the structure being built shall have a minimum clearance of 3 inches (3cm) between the handrail and walls, stair rail systems, and other objects.~~

~~(6)(7) The ends of stair rail systems and handrails shall be constructed so as not to constitute a projection hazard.~~

#### R 408.42157 Temporary stairways.

Rule 2157. (1) All wooden components that are necessary to construct and guard a temporary stairway shall be of construction-grade lumber.

~~(2) The minimum size of stringers shall be 2 by 8 inches unless notched. If notched, the stringers shall have a plate or equivalent means which provides the same strength that an uncut 2-inch by 8-inch stringer provides.~~

~~(3) The minimum width of a temporary stairway shall be 22 inches.~~

~~(4) Each tread shall rest on 2-inch by 4-inch cleats or be notched into the stringer, to provide a bearing surface for the full width of the tread.~~

~~(5) For a temporary stairway between 22 and 36 inches wide, a minimum of a 2-inch by 6-inch plank shall be used for a tread.~~

~~(6) For a temporary stairway between 36 and 54 inches wide, a minimum of a 2-inch by 8-inch plank shall be used for a tread.~~

~~(7) For a temporary stairway over 54 inches wide, a 2-inch by 10-inch plank shall be used for a tread.~~

~~(8) If the width of a temporary stairway is more than 88 inches, an additional notched stringer shall be provided at the middle of the stairway.~~

~~(3)(9) The total vertical rise of a temporary stairway shall not be more than 12 feet, unless stair platforms are provided.~~

~~(4)(10) The rise shall be not less than 6 inches nor more than 8 inches.~~

~~(5)(11) The ratio of rise to tread width shall be uniform for all sets of stairs.~~

~~(12) Each tread shall be constructed and maintained of solid, 1-piece lumber and repairs shall be made with solid 1-piece lumber.~~

~~(6)(13) The sides of a temporary stairway shall be guarded as required by the provisions of R 408.42155 and R 408.42156, except that a stairway used as access to material storage trailers is required to be guarded on only 1 side.~~

~~(7)(14) If used during construction, permanent steel or other metal stairways and landings with hollow pan-type treads that are to be filled with concrete or other materials shall be filled to the level of the nosing with solid material. This requirement shall not apply during the period of actual construction of the stairways. Metal landings shall be secured in place before filling. Such temporary treads and landings shall be replaced when worn below the level of the top edge of the pan.~~

~~(8)(15) A stairway shall be free of hazardous projections, such as nails, sharp top rails, and handrail projections.~~

~~(9)(16) A stairway shall have a minimum vertical clearance of 7 feet from any overhead object, unless the overhead object is padded and caution signs or paint is used on the object, as prescribed in Part 22. Signals, Signs, Tags, and Barricades, being R 408.42201 et seq. of the Michigan Administrative Code.~~

~~(10)(17) Except during stairway construction, foot traffic is prohibited on skeleton metal stairs where permanent treads or landings are to be installed at a later date, unless the stairs are fitted with secured temporary treads and landings long enough to cover the entire tread or landing area.~~

~~(11)(18) Treads for temporary service shall be made of wood or other solid material and shall be installed the full width and depth of the stair.~~

#### R 408.42159 Maintenance.

Rule 2159. (1) A floor, platform, stair tread, or landing shall be maintained free of tripping or slipping hazards.

~~(2) Material used to repair floors, platforms, stair treads, or landings shall meet the design strength of the original component.~~

~~(3) A floor, platform, stair, runway, or ramp shall be free of hazardous projections.~~

#### R 408.42160 Catch platform specifications **Rescinded.**

~~Rule 2160. If a catch platform is installed as a means of fall protection for an employee or employees working on a roof, the catch platform shall be in compliance with all of the following provisions:~~

~~(a) Consist of a minimum of three 2-inch by 10-inch nominal size planks placed side by side or other material of equal width that provides equal strength.~~

~~(b) Be installed a maximum of 18 inches beneath the eave line of the roof.~~

~~(c) Have a guardrail that meets the requirements of R 408.42150 installed on the outer exposed edge and each end. An additional intermediate rail, solid material, or a screen shall be installed between the catch platform and the midrail.~~