

DEPARTMENT OF LABOR AND ECONOMIC GROWTH

DIRECTOR'S OFFICE

CONSTRUCTION SAFETY STANDARDS

(By authority conferred on the director of the department of labor and economic growth by sections 19 and 21 of 1974 PA 154 and Executive Reorganization Order Nos. 1996-2 and 2003-1, MCL 408.1019, 408.1021, 445.2001, and 445.2011)

PART 30. TELECOMMUNICATIONS

R 408.43001 Adoption of federal O.S.H.A. standard.

Rule 3001. (1) The federal occupational safety and health administration's regulations on telecommunications that have been promulgated by the United States department of labor and codified at 29 C.F.R. §1910.268, are adopted by reference in these rules as of the effective date of these rules, except as noted in subrule (2) of this rule.

(2) Paragraphs (a)(2)(i) and (a)(3) of 29 C.F.R. §1910.268 are excepted.

(3) As of the effective date of these rules, the words "for purposes of 29 CFR 1910.34," as used in 29 C.F.R. §1910.268(b)(1)(iii), are excepted.

(4) As of the effective date of these rules, §1910.110, referenced in 29 C.F.R. §1910.268(b)(4), means R 408.43003.

(5) As of the effective date of these rules, the words "Assistant Secretary for Occupational Safety and Health," as used in 29 C.F.R. §1910.268(c), mean director of the department of labor and economic growth.

(6) As of the effective date of these rules, §1910.137, referenced in 29 C.F.R. §1910.268(f)(1), means general industry safety standard Part 33.

Personal Protective Equipment, R 408.13387.

(7) As of the effective date of these rules, the words "Subpart D of this part," as used in 29 C.F.R. §1910.268(h)(1), mean construction safety standard Part 11. Fixed and Portable Ladders, R 408.41101 et seq.

(8) As of the effective date of these rules, §1910.25(c)(5), referenced in 29 C.F.R. §1910.268(h)(5), means R 408.43004.

(9) As of the effective date of these rules, §§1910.133(a)(2) to (a)(6), referenced in 29 C.F.R. §1910.268(i)(2), mean construction safety standard Part 6. Personal Protective Equipment, R 408.40601 et seq.

(10) As of the effective date of these rules, subpart Q, referenced in 29 C.F.R. §1910.268(i)(9), means construction safety standard Part 7. Welding and Cutting, R 408.40701 et seq.

(11) As of the effective date of these rules, the words "Subpart W of Part 1926 of this title," as used in 29 C.F.R. §1910.268(j)(2)(i), mean construction safety standard Part 13. Mobile Equipment, R 408.41301 et seq.

(12) As of the effective date of these rules, American National Standards Institute (ANSI) standard J6.6-1971, referenced in 29 C.F.R. §1910.268(n)(11)(iv), means American Society for Testing and Materials (ASTM) standard D 120, Standard Specification for Rubber Insulating Gloves, 1977 edition.

(13) As of the effective date of these rules, §1910.97, referenced in 29 C.F.R. §1910.268(p)(2), means occupational health standard Part 382.

Nonionizing Radiation, R 325.60701 et seq.

(14) The adopted federal regulations shall have the same force and effect as a rule promulgated under 1974 PA 154, MCL 408.1001 et seq.

(15) These rules replace occupational health rule 6701.

History: 1979 AC; 2005 AACs.

R 408.43002 Applicability.

Rule 3002. Operations or conditions not specifically covered by these rules are subject to all the applicable standards promulgated by the construction safety standards commission. Operations which involve general industrial work are subject to all the applicable standards promulgated by the occupational health and general industry safety standards commissions.

History: 1979 AC; 2005 AACS.

R 408.43003 Vehicles fueled by LP gas; storage or service; repair; parking.

Rule 3003. (1) Vehicles fueled by LP gas may be stored or serviced inside garages if there are no leaks in the fuel system and the fuel tanks are not filled beyond the maximum filling capacity specified in table 1.

TABLE 1  
MAXIMUM PERMITTED FILLING DENSITY  
Aboveground containers

Specific gravity containers, at 60°F. (15.6°C.)	0 to 1,200 U.S. gals.	Over 1,200 U.S. gals.	Underground
	(1,000 imp. gal., 4,550 liters) total water cap.	(1,000 imp. gal., 4,550 liters) total water cap.	all capacities
	Percent	Percent	Percent
.496-.503	41	44	45
.504-.510	42	45	46
.511-.519	43	46	47
.520-.527	44	47	48
.528-.536	45	48	49
.537-.544	46	49	50
.545-.552	47	50	51
.553-.560	48	51	52
.561-.568	49	52	53
.569-.576	50	53	54
.577-.584	51	54	55
.585-.592	52	55	56
.593-.600	53	56	57

(2) Vehicles fueled by LP gas which are being repaired in garages shall have the container shutoff valve closed except when fuel is required for engine operation.

(3) Vehicles fueled by LP gas shall not be parked near sources of heat, open flames, or similar sources of ignition, or near open pits, unless the pits are adequately ventilated.

History: 1979 AC; 2005 AACS.

R 408.43004 Trolley and side-rolling ladders.

Rule 3004. (1) Trolley ladders and side-rolling ladders longer than 20 feet should not be supplied.

(2) The dimensions of the side rails shall not be less than the following for group 2 or group 3 woods:

Length of side rails (feet)	Thickness (inch)	Depth (inches)
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Up to and including 10	25/32	3
Over 10 up to and including 20	25/32	3 3/4

(3) The minimum thicknesses of side rails provide for the cutting of a groove not over 1/8 inch in depth. The thickness shall be increased when grooves of greater depth are used. Flat steps shall have the following minimum dimensions for group 2 or group 3 woods:

Length of step (inches)	Thickness (inch)	Depth (inches)
Up to and including 16	25/32	3
Over 16 up to and including 20	25/32	3 1/4
Over 20 up to and including 24	25/32	3 1/2
Over 24 up to and including 28	25/32	4

(4) The width between the side rails, inside to inside, shall be at least 12 inches.

(5) Flat steps shall be inset in the side rails 1/8 inch and secured with at least two 6-d nails at each end, or the equivalent thereof. They shall be reinforced with angle braces or with a 3/16-inch steel rod.

(6) Locking devices should be provided on all trolley ladders.

(7) Tracks shall comply with the following requirements:

(a) Tracks shall be wood or metal (excluding cast iron), or a combination of these materials.

(b) Tracks for the top end of ladders shall be fastened securely and shall be so constructed that the wheels cannot jump the track. Tracks shall be so designed as to provide for all probable loads to which they are subjected.

(c) The supports shall be securely fastened by lag screws or by machine, hook, or toggle bolts, or their equivalent.

(d) Track for side-rolling ladders shall be supported by metal or wood brackets securely screwed or bolted to shelving or other permanent structure at not over 3 feet.

(8) A wheel carriage shall comply with the following requirements:

(a) A wheel carriage shall be so designed as to provide for all loads to which it is subjected. Two-point suspension should be used.

(b) The wheel carriage for the top end of the ladder shall be securely fastened to the top of the ladder, with metal brackets bolted either to the side rails or to the top step. When bolted to the top step, this step shall be secured to the side rails with metal braces in addition to those otherwise provided. The wheel carriage shall be so designed that a loose or broken wheel does not allow the ladder to drop or become detached from the track.

(c) The wheel carriage for the bottom end of the ladder shall be securely fastened to the bottom of the ladder.

(d) The wheels at the upper end of the ladder shall have a minimum wheel base of 8 inches.

(e) When wheels are used at the bottom of the ladder, there shall be at least 1 wheel supporting each side rail.

(f) Running gear for bottoms of both trolley and side-rolling ladders shall be so designed and constructed as to provide for any load to which such gear is subjected.

History: 1979 AC.

R 408.43005 Employer responsibility.

Rule 3005. Where personal protective equipment is required by any provision of 29 C.F.R. §1910.268 Telecommunications, adopted by reference in R 408.43001, that personal protective equipment shall be provided for and as prescribed in construction safety standard Part 6. Personal Protective Equipment, R 408.40601 et seq.

History: 1979 AC; 2005 AACS.

R 408.43006 Availability of documents.

Rule 3006. (1) The federal regulations adopted by reference in these rules are available without cost as of the time of adoption of these rules from the United States Department of Labor, OSHA, 315 West Allegan, Room 315, Lansing, Michigan 48933, or via the internet at website: [www.osha.gov](http://www.osha.gov), or from the Michigan Department of Labor and Economic Growth, MIOSHA Standards Section, P.O. Box 30643, Lansing, Michigan 48909.

(2) The following Michigan occupational safety and health standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Labor and Economic Growth, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at website:[www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

- (a) Construction Safety Standard Part 6. Personal Protective Equipment, R 408.40601 et seq.
- (b) Construction Safety Standard Part 7. Welding and Cutting, R 408.40701 et seq.
- (c) Construction Safety Standard Part 11. Fixed and Portable Ladders, R 408.41101 et seq.
- (d) Construction Safety Standard Part 13. Mobile Equipment, R 408.41301 et seq.
- (e) General Industry Safety Standard Part 33. Personal Protective Equipment, R 408.13387.
- (f) Occupational Health Standard Part 382. Nonionizing Radiation, R 325.60701 et seq.

(3) The following standards are referenced in these rules and are available from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112, telephone number 1-800-854-7179, website:[www.global.ihs.com](http://www.global.ihs.com), at a cost as of the time of adoption of these rules, as stated in this rule:

- (a) American Society for Testing and Materials (ASTM) standard B117-64, Standard Practice for Operating Salt Spray (Fog) Apparatus. Cost:\$40.00.
- (b) American National Standards Institute (ANSI) standard Z89.2-1971, Industrial Protective Helmets for Electrical Workers. Cost:\$25.00.
- (c) American National Standards Institute (ANSI) standard B30.6-1969, Safety Code for Derricks. Cost: \$40.00.
- (d) American Society for Testing and Materials (ASTM) standard D 120, Standard Specification for Rubber Insulating Gloves, 1977 edition.Cost:\$54.00.
- (e) American National Standards Institute (ANSI) standard A92.2-1969, Vehicle-Mounted Elevating and Rotating Devices. Cost: \$20.00.

History: 2005 AACS.