

OLD GI PART 4 PORTABLE LADDERS — COMPARISON TO NEW RULES

OLD GI PART 4 PORTABLE LADDERS (RESCINDED)	NEW GI PART 2, WALKING-WORKING SURFACES (EFFECTIVE FEBRUARY 2, 2018)
<p>This table compares the rescinded rules for portable ladders in old GI Part 4 with the new rules for portable ladders in GI Part 2, Walking-Working Surfaces. The first column contains the rescinded rule (struckthrough). The second column contains the corresponding, comparable new rule(s) that could be used to address the same hazard. In some cases there may be more than one applicable rule in the new regulations. Which new rule would be used, and whether it could be used, depends as always on the circumstances. Under the new regulations, broad performance-based standards replace old specification standards thus giving the employer more flexibility on how to meet a requirement but also expanding the situations under which the regulation would apply.</p>	
<p>R 408.10401 Scope.</p> <p>Rule 401. This part establishes minimum requirements for the construction, care and use of portable ladders used in, around or about places of employment.</p>	<p>1910.21 SCOPE AND DEFINITIONS (a) Scope. This subpart applies to all general industry workplaces. It covers all walking-working surfaces unless specifically excluded by an individual section of this subpart.</p>
<p>R 408.10403 Definitions; B to D.</p> <p>Rule 403. (1) "Brand" means marking by burning with a hot iron.</p> <p>(2) "Check" means a lengthwise separation of wood less than 6 inches in length and 1/2-inch deep, most of which occurs across the rings of annual growth.</p> <p>(3) "Cleats" means a ladder's crosspieces of rectangular cross-section placed on edge on which a person may step to ascend or descend.</p> <p>(4) "Crack" means a separation of wood cells across the grain line.</p> <p>(5) "Decay" or "rot" means the disintegration of wood substance due to action of wood-destroying fungi.</p>	<p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Rung, step, or cleat means the cross-piece of a ladder on which an employee steps to climb up and down.</p>
<p>R 408.10404 Definitions; E.</p> <p>Rule 404. (1) "Extension ladder" means a non-self-supporting portable ladder adjustable in length. It consists of 2 or more sections traveling in guides or brackets so arranged as to permit adjustment of the ladder's length. Its size is designated by the sum of the lengths of the sections measured along the side rails.</p> <p>(2) "Extension trestle ladder" means a self-supporting portable ladder, adjustable in length, consisting of a trestle ladder base and a vertically adjustable single ladder, with suitable means for locking the ladders together. The size is designated by the length of the rail of the trestle ladder base.</p>	<p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Extension ladder means a non-self-supporting portable ladder that is adjustable in length.</p> <p>Note: the new federal rules have no definition for an extension trestle ladder. An extension trestle ladder would be considered a portable ladder or combination ladder under the definitions in the new federal rules.</p> <p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Combination ladder means a portable ladder that can be used as a stepladder, extension ladder, trestle ladder, or stairway ladder. The components of a combination ladder also may be used separately as a single ladder. Portable ladder means a ladder that can readily be moved or carried, and usually consists of side rails joined at intervals by steps, rungs, or cleats.</p>
<p>R 408.10406 Definitions; L to R.</p> <p>Rule 406. (1) "Ladder" means an appliance which usually consists of 2 side rails joined at regular intervals by crosspieces called steps, rungs, or cleats on which a person may step to ascend or descend.</p> <p>(2) "Ladder stand" means a mobile, fixed-size, self-supporting ladder consisting of flat treads in the form of stairs and may include handrails.</p> <p>(3) "Pitch" means the included angle between the horizontal and the ladder, measured on the opposite side of the ladder from the climbing side.</p> <p>(4) "Platform ladder" means a self-supporting type of step ladder of fixed size with a platform provided at the working level. The size is determined by the distance along the front rail from the platform to the base of the ladder.</p>	<p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Ladder means a device with rungs, steps, or cleats used to gain access to a different elevation.</p> <p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Mobile ladder stand (ladder stand) means a mobile, fixed-height, self-supporting ladder that usually consists of wheels or casters on a rigid base and steps leading to a top step. A mobile ladder stand also may have handrails and is designed for use by one employee at a time.</p> <p>If the platform ladder has wheels:</p> <p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Mobile ladder stand platform means a mobile,</p>

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	<p>fixed-height, self-supporting unit having one or more standing platforms that are provided with means of access or egress.</p> <p>If the platform ladder has no wheels:</p> <p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Portable ladder means a ladder that can readily be moved or carried, and usually consists of side rails joined at intervals by steps, rungs, or cleats.</p>
(5) "Portable ladder" means a ladder not permanently fixed in place and which may be used at various locations.	<p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Portable ladder means a ladder that can readily be moved or carried, and usually consists of side rails joined at intervals by steps, rungs, or cleats.</p>
(6) "Rungs" means a ladder's crosspieces of circular or oval cross section on which a person may step to ascend or descend.	<p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Rung, step, or cleat means the cross-piece of a ladder on which an employee steps to climb up and down.</p>
R 408.10407 Definitions; S.	
Rule 407. (1) "Safety feet" means a safety device placed on the foot of the side rails to reduce the likelihood of the base slipping. Safety feet may be flat pads covered with a nonslip material, pointed metal projections, or spur wheels.	
(2) "Sectional ladder" means a non-self-supporting portable ladder, consisting of 2 or more sections so constructed that the sections, when combined by interlocking, will function as a single ladder. Its size is designated by the overall length of the assembled sections. It is not adjustable.	<p>Note: the new federal rules have no definition for a sectional ladder. A sectional ladder would be considered a portable ladder under the definitions in the new federal rules.</p> <p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Portable ladder means a ladder that can readily be moved or carried, and usually consists of side rails joined at intervals by steps, rungs, or cleats.</p>
(3) "Single ladder" means a non-self-supporting portable ladder, nonadjustable in length, consisting of only 1 section. Its size is designated by the overall length of the side rail.	<p>Note: the new federal rules have no definition for a single ladder. A single ladder would be considered a portable ladder under the definitions in the new federal rules.</p> <p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Portable ladder means a ladder that can readily be moved or carried, and usually consists of side rails joined at intervals by steps, rungs, or cleats.</p>
(4) "Special purpose ladder" means a portable ladder which represents either a modification or a combination of design or construction features in 1 or more of the general purpose types of ladders, as defined in this part in order to adapt the ladder to special or specific uses.	<p>Note: the new federal rules have no definition for a special purpose ladder. A special purpose letter would be considered a portable ladder or combination ladder under the definitions in the new federal rules.</p> <p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Combination ladder means a portable ladder that can be used as a stepladder, extension ladder, trestle ladder, or stairway ladder. The components of a combination ladder also may be used separately as a single ladder. Portable ladder means a ladder that can readily be moved or carried, and usually consists of side rails joined at intervals by steps, rungs, or cleats.</p>
(5) "Split" means a lengthwise separation or lateral fault along the grain line; a tearing apart of the wood cells from 1 surface to the opposite or adjoining surface.	
(6) "Step ladder" means a self-supporting portable ladder, nonadjustable in length, having flat steps and a hinged back. Its size is measured along the front edge of the side rails.	<p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Stepladder means a self-supporting, portable ladder that has a fixed height, flat steps, and a hinged back.</p>
(7) "Steps" means the flat crosspieces of a ladder on which a person may step to ascend or descend.	<p>1910.21 SCOPE AND DEFINITIONS (b) Definitions. Rung, step, or cleat means the cross-piece of a ladder on which an employee steps to climb up and down.</p>

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R 408.10408 Definitions; T to W.	
Rule 408. (1) "Trestle ladder" means a self-supporting portable ladder, nonadjustable in length, consisting of 2 sections hinged at the top to form equal angles with the base. The size is designated by the length of the side rails measured along the front edge.	Note: the new federal rules have no definition for a trestle ladder. A trestle ladder would be considered a portable ladder or stepladder under the definitions in the new federal rules.
(2) "Worn" means the reduction of a dimension of a wood or nonwood part by more than 10% of its original size.	1910.21 SCOPE AND DEFINITIONS (b) Definitions. Portable ladder means a ladder that can readily be moved or carried, and usually consists of side rails joined at intervals by steps, rungs, or cleats. Stepladder means a self-supporting, portable ladder that has a fixed height, flat steps, and a hinged back.
WOOD LADDERS	
R 408.10421. Portable wood ladders, metal and wood parts.	
Rule 421. (1) The strength of metal parts and fittings of a portable wood ladder shall not be less than the design requirements of the ladder to which they are affixed.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury. (10) Any ladder with structural or other defects is immediately tagged "Dangerous: Do Not Use" or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced. (c) Portable ladders. The employer must ensure: (3) Ladders are not loaded beyond the maximum intended load. Note to paragraph (c)(3): The maximum intended load, as defined in §1910.21(b), includes the total load (weight and force) of the employee and all tools, equipment, and materials being carried.
(2) Wood parts shall meet the, American National Standards Institute (ANSI) standard A 14.1, "Portable Wood Ladders," 1975 edition, which is incorporated herein by reference. This standard is available for inspection at the Michigan Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, MI 48909, and may be purchased from IHS Global, 15 Inverness Way East, Englewood, Colorado, 80112, USA, telephone number: 1-800-854-7179 or via the internet at the website: http://global.ihs.com ; at a cost as of the time of adoption of these rules of \$20.00.	Note: see 1910.23(b) and (c) generally.
R 408.10422 Portable wood step ladders.	
Rule 422. A step ladder shall be only of a type as follows: (a) Type I which shall be an industrial step ladder, 3 to 20 feet in length and manufactured for heavy duty, such as used by utilities, contractors, and industries. (b) Type II commercial step ladder, 3 to 10 feet for medium duty, such as used by painters, offices, and light industries.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed. (c) Portable ladders. The employer must ensure: (3) Ladders are not loaded beyond the maximum intended load. Note to paragraph (c)(3): The maximum intended load, as defined in §1910.21(b), includes the total load (weight and force) of the employee and all tools, equipment, and materials being carried.
R 408.10427 Portable rung ladder lengths.	
Rule 427. (1) A portable rung ladder which is of a greater length than given in table 1 shall not be used. (2) Table 1 reads as follows:	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they

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<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <caption style="text-align: center;">TABLE 1 PORTABLE RUNG LADDER LENGTHS</caption> <thead> <tr> <th style="width: 70%;">Type of Ladder</th> <th style="width: 30%;">Maximum Length</th> </tr> </thead> <tbody> <tr> <td>Single ladder</td> <td style="text-align: center;">22 feet</td> </tr> <tr> <td>Two-section extension ladder</td> <td style="text-align: center;">40 feet</td> </tr> <tr> <td>Three-section extension ladder</td> <td style="text-align: center;">60 feet</td> </tr> <tr> <td>Assembled section ladder</td> <td style="text-align: center;">21 feet</td> </tr> <tr> <td>Trestle ladder or extension sections or base sections of an extension trestle ladder</td> <td style="text-align: center;">18 feet</td> </tr> </tbody> </table>	Type of Ladder	Maximum Length	Single ladder	22 feet	Two-section extension ladder	40 feet	Three-section extension ladder	60 feet	Assembled section ladder	21 feet	Trestle ladder or extension sections or base sections of an extension trestle ladder	18 feet	<p>were designed.</p> <p>(c) Portable ladders. The employer must ensure: (3) Ladders are not loaded beyond the maximum intended load.</p> <p>Note to paragraph (c)(3): The maximum intended load, as defined in §1910.21(b), includes the total load (weight and force) of the employee and all tools, equipment, and materials being carried.</p>
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<p>R 408.10428 Portable rung extension ladders.</p> <p>Rule 428. (1) A portable rung extension ladder shall consist of 1 section which shall fit within the side rails of another section and arranged in such a manner that the upper sections may be raised or lowered.</p> <p>(2) The minimum overlap of adjacent sections of a 2 or 3 section portable rung extension ladder shall be as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 60%;">Size of ladder in feet for all sections</th> <th style="width: 40%;">Overlap of each section in feet</th> </tr> </thead> <tbody> <tr> <td>Up to and including 32</td> <td style="text-align: center;">3</td> </tr> <tr> <td>Over 32 up to including 48</td> <td style="text-align: center;">4</td> </tr> <tr> <td>Over 48 up to including 50</td> <td style="text-align: center;">5</td> </tr> </tbody> </table> <p>(3) A portable rung extension ladder shall have positive means which insure the overlap as specified in subrule (2) of this rule.</p>	Size of ladder in feet for all sections	Overlap of each section in feet	Up to and including 32	3	Over 32 up to including 48	4	Over 48 up to including 50	5	<p>1910.23 LADDERS</p> <p>(b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed.</p> <p>(c) Portable ladders. The employer must ensure: (12) Ladders and ladder sections are not tied or fastened together to provide added length unless they are specifically designed for such use.</p>				
Size of ladder in feet for all sections	Overlap of each section in feet												
Up to and including 32	3												
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Over 48 up to including 50	5												
<p>R 408.10431 Special-purpose ladders.</p> <p>Rule 431. (1) A special-purpose ladder may be capable of being used as, but not limited to, a step ladder, a single or extension ladder, or a trestle ladder.</p>	<p>1910.23 LADDERS</p> <p>(b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed.</p> <p>(c) Portable ladders. The employer must ensure: (12) Ladders and ladder sections are not tied or fastened together to provide added length unless they are specifically designed for such use.</p>												
<p>(2) A special-purpose ladder, when used as any of the type of ladder listed in subrule (1) of this rule, shall meet the requirements of the applicable rules of this part.</p> <p>(3) A special-purpose ladder may be used by more than 1 employee if specifically designed for that purpose.</p>	<p>Note: see generally 1910.23(b) & (c). The particular deficiency would be cited.</p> <p>1910.23 LADDERS</p> <p>(b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed.</p> <p>(c) Portable ladders. The employer must ensure: (3) Ladders are not loaded beyond the maximum intended load.</p> <p>Note to paragraph (c)(3): The maximum intended load, as defined in §1910.21(b), includes the total load (weight and force) of the employee and all tools, equipment, and materials being carried.</p>												

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(4) A platform step ladder shall be constructed in accordance with the requirements for a type I step ladder or a type II step ladder. A platform of a platform ladder shall be capable of supporting a load of 200 pounds placed at any point on the platform.	1910.22 GENERAL REQUIREMENTS (b) Loads. The employer must ensure that each walking working surface can support the maximum intended load for that surface. Note: see also generally 1910.23(b) & (c). The particular deficiency would be cited.
(5) A type II step ladder which is used for painting may have its top omitted.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed.
R 408.10432 Cleat ladders.	
Rule 432. (1) A cleat ladder which is longer than 22 feet shall not be used.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed.
(2) Wood in a cleat ladder shall be straight grained and knot free.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury. (10) Any ladder with structural or other defects is immediately tagged "Dangerous: Do Not Use" or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced.
(3) Wood side rails of a cleat ladder shall not be less than 2 x 4 inches nominal. Wood cleats of a cleat ladder may not be less than 1 x 4 inches nominal.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed.
(4) The distance between the side rails of a cleat ladder shall be at least 14 1/2 inches, but not more than 16 1/2 inches.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (4) Ladder rungs, steps, and cleats have a minimum clear width of 11.5 inches (29 cm) on portable ladders and 16 inches (41 cm) (measured before installation of ladder safety systems) for fixed ladders, except that: (i) The minimum clear width does not apply to ladders with narrow rungs that are not designed to be stepped on, such as those located on the tapered end of orchard ladders and similar ladders. (ii) Rungs and steps of manhole entry ladders that are supported by the manhole opening must have a minimum clear width of 9 inches (23 cm). (iii) Rungs and steps on rolling ladders used in telecommunication centers must have a minimum clear width of 8 inches (20 cm). (iv) Step-stools have a minimum clear width of 10.5 inches (26.7 cm).
(5) Wooden cleats shall be inset into the 2 side rails of a cleat ladder not less than 1/2 inch or attached directly to the edge of the side rails if filler blocks the thickness of the cleats are securely attached to the edge of the rail for the entire length between the cleats. The cleats shall be fastened to each rail by at least 3 size 10-d wire nails.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury. (10) Any ladder with structural or other defects is immediately tagged "Dangerous: Do Not Use" or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced.
R 408.10433 Ladder stands.	
Rule 433. (1) A ladder stand shall be capable of sustaining the specified load.	1910.23 LADDERS (e) Mobile ladder stands and mobile ladder stand platforms. (1) General requirements. The employer must ensure: (iii) Mobile ladder stands and platforms are capable of supporting at least four times their maximum intended load.
(2) The load, which shall be calculated on the basis of 1 or more 200-pound employees, together with 50 pounds of equipment each, shall be applied uniformly to a 3 1/2 inch wide area, front to back, at the center of the width span,	

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with a safety factor of 4.	(iv) Wheels or casters under load are capable of supporting their proportional share of four times the maximum intended load, plus their proportional share of the unit's weight.
(3) The maximum height at the working level shall be not more than 4 times the minimum base dimension. A ladder stand which does not meet this requirement shall be provided outrigger frames to achieve this least base dimension.	1910.23 LADDERS (e) Mobile ladder stands and mobile ladder stand platforms. (1) General requirements. The employer must ensure: (vi) The maximum work-surface height of mobile ladder stands and platforms does not exceed four times the shortest base dimension, without additional support. For greater heights, outriggers, counterweights, or comparable means that stabilize the mobile ladder stands and platforms and prevent overturning must be used.
(4) The step width shall be not less than 16 inches and the steps shall have a slip resistant surface.	1910.23 LADDERS (e) Mobile ladder stands and mobile ladder stand platforms. (1) General requirements. The employer must ensure: (i) Mobile ladder stands and platforms have a step width of at least 16 inches (41 cm). (ii) The steps and platforms of mobile ladder stands and platforms are slip resistant. Slip-resistant surfaces must be either an integral part of the design and construction of the mobile ladder stand and platform, or provided as a secondary process or operation, such as dimpling, knurling, shot-blasting, coating, spraying, or applying durable slip-resistant tapes.
(5) Not less than 2 of the 4 casters of a ladder stand shall be the swivel type, and the caster shall be provided with positive wheel lock, swivel lock, or both, to prevent movement.	1910.23 LADDERS (e) Mobile ladder stands and mobile ladder stand platforms. (1) General requirements. The employer must ensure: (vii) Mobile ladder stands and platforms that have wheels or casters are equipped with a system to impede horizontal movement when an employee is on the stand or platform. (viii) No mobile ladder stand or platform moves when an employee is on it.
(6) Steps shall be uniformly spaced and sloped, with a rise of not less than 9 inches, nor more than 10 inches, and a depth of not less than 7 inches. The slope of the steps section shall be a minimum of 55 degrees and a maximum of 60 degrees, measured from the horizontal.	1910.23 LADDERS (e) Mobile ladder stands and mobile ladder stand platforms. (2) Design requirements for mobile ladder stands. The employer must ensure: (i) Steps are uniformly spaced and arranged, with a rise of not more than 10 inches (25 cm) and a depth of not less than 7 inches (18 cm). The slope of the step stringer to which the steps are attached must not be more than 60 degrees, measured from the horizontal.
(7) Handrails shall be a minimum of 29 inches high. Measurements shall be taken vertically from the center of the step. Units having more than 5 steps, or 60 inches vertical height to the top step, shall be equipped with handrails.	1910.23 LADDERS (e) Mobile ladder stands and mobile ladder stand platforms. (1) General requirements. The employer must ensure: (v) Unless otherwise specified in this section, mobile ladder stands and platforms with a top step height of 4 feet (1.2 m) or above have handrails with a vertical height of 29.5 inches (75 cm) to 37 inches (94 cm), measured from the front edge of a step. Removable gates or non-rigid members, such as chains, may be used instead of handrails in special-use applications. (2) Design requirements for mobile ladder stands. The employer must ensure: (ii) Mobile ladder stands with a top step height above 10 feet (3 m) have the top step protected on three sides by a handrail with a vertical height of at least 36 inches (91 cm); and top steps that are 20 inches (51 cm) or more, front to back, have a midrail and toeboard. Removable gates or non-rigid members, such as chains, may be used instead of handrails in special-use applications.
R 408.10441 Handling and transporting ladders.	
Rule 441. (1) A ladder shall be handled with reasonable care and not subjected to deliberate dropping or to misuse. A ladder shall not be used as a plank or skid.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed.

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	<p>(9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury.</p> <p>(10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced.</p>
(2) A ladder which is carried on a vehicle shall be secured to prevent it from catapulting or falling from the vehicle.	<p>Note: if an unsecured ladder falls and is damaged, the rules below would be used to address the situation.</p> <p>1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure:</p> <p>(9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury.</p> <p>(10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced.</p>
R-408.10442 Maintenance.	
Rule 442. (1) A ladder shall not be painted with an opaque material. A ladder, particularly one used out-of-doors, should be coated with a suitable transparent protective material to retard splintering caused by weathering.	<p>Painted with opaque material:</p> <p>1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure:</p> <p>(5) Wooden ladders are not coated with any material that may obscure structural defects.</p> <p>Indoor use-only ladder is used outdoors:</p> <p>1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure:</p> <p>(8) Ladders are used only for the purposes for which they were designed.</p> <p>(9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury.</p> <p>Defects caused by outside use of indoor-use only ladder:</p> <p>1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure:</p> <p>(10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced.</p>
(2) The side rails and logs of a ladder shall be kept free from splinters. The joint between the side rail and step shall be kept tight and metal hardware and fittings secured.	<p>Free of splinters:</p> <p>1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure:</p> <p>(7) Ladder surfaces are free of puncture and laceration hazards.</p> <p>Loose or unsecured joints, hardware, or fittings:</p> <p>1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure:</p> <p>(9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury.</p> <p>(10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and</p>

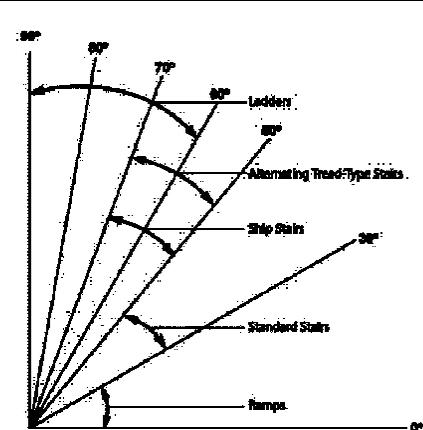
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	removed from service until repaired in accordance with §1910.22(d), or replaced.
(3) A ladder including its safety feet shall be kept free of oil, grease, mud, or any similar slippery substances.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury. (10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced. (c) Portable ladders. The employer must ensure: (9) Portable ladders used on slippery surfaces are secured and stabilized.
(4) The locks, pulleys, spreader joints, or other movable metal parts of a ladder shall operate freely without undue play. Lubricants shall be applied as needed.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury. (10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced. (c) Portable ladders. The employer must ensure: (2) Each stepladder or combination ladder used in a stepladder mode is equipped with a metal spreader or locking device that securely holds the front and back sections in an open position while the ladder is in use.
(5) A rope used on a ladder shall not have a long or loosely twisted lay, shall be free of burns and cuts, and shall not show evidence of weakness resulting from fraying, wear, mildew, or rot. Rope ends shall be fastened or whipped.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury. (10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced.
R 408.10443 Inspection; repair or replacement.	
Rule 443. (1) A ladder shall be inspected before its use and after it has fallen or been involved in an accident to determine its condition. A ladder shall be repaired or replaced if it shows:	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (7) Ladder surfaces are free of puncture and laceration hazards. (9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury. (10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced. (c) Portable ladders. The employer must ensure: (2) Each stepladder or combination ladder used in a stepladder mode is equipped with a metal spreader or locking device that securely holds the front and back sections in an open position while the ladder is in use.
(a) Splits in its side rails through to opposite surfaces in excess of 3 inches at the rungs or 6 inches along the rails. Splits singly or in combination along the same grain line shall not exceed 6 inches in any 1 foot. Splits through to the opposite broad faces exceeding 6 inches but not more than 1 1/2 feet in length in single or combined lengths may be closed with a 3/16-inch diameter wagon box-head rivet centrally located in the narrow face of the rail. Where the split runs through rung holes, the rivets shall be placed approximately 2 inches from the center of each rung so affected. This subdivision does not refer to checks in a ladder.	
(b) Gouges, dents or other damage that may be dressed smooth if the rail is not reduced by more than 10% of the thickness or depth. Damage to corner edges, including splits, may be dressed to a smooth bevel, if the cross section is not reduced by more than 10% of its original area.	
(c) Worn, crushed, cracked, split, splintered or missing rungs, steps, tops or platforms.	
(d) Longitudinal play of 3/4 inch in the rails due to looseness of rungs or steps.	
(e) Broken or bent guide irons, spreaders or locks.	
(2) A ladder with a defect, described in subrule (1), shall	1910.23 LADDERS

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be tagged "Dangerous, Do Not Use" and it shall be removed from service for repair or destruction. Improvised repairs shall not be made.	(b) General requirements for all ladders. The employer must ensure: (10) Any ladder with structural or other defects is immediately tagged "Dangerous: Do Not Use" or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced.
R 408.10445 Use of ladders.	
Rule 445. (1) A ladder shall not be placed in front of a door which opens toward the ladder unless the door is blocked open, locked, guarded by a person, or protected by a barricade.	1910.23 LADDERS (c) Portable ladders. The employer must ensure: (7) Ladders placed in locations such as passageways, doorways, or driveways where they can be displaced by other activities or traffic: (i) Are secured to prevent accidental displacement. (ii) Are guarded by a temporary barricade, such as a row of traffic cones or caution tape, to keep the activities or traffic away from the ladder.
(2) A ladder shall not be placed on a box, barrel, or other unstable base.	1910.23 LADDERS (c) Portable ladders. The employer must ensure: (13) Ladders are not placed on boxes, barrels, or other unstable bases to obtain additional height.
(3) A climber shall face the ladder when ascending or descending.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (11) Each employee faces the ladder when climbing up or down it.
(4) A ladder shall not be used as a brace, skid, guy, gin pole, gangway, or for any other use than that for which it is intended.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed. (c) Portable ladders. The employer must ensure: (12) Ladders and ladder sections are not tied or fastened together to provide added length unless they are specifically designed for such use.
(5) A person on a single or sectional ladder shall not overreach or do any pushing or pulling that may cause the ladder to move or topple. If both shoulders are outside the side rail, the user is overreaching.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed.
(6) The user shall not stand astride a ladder and another object.	
(7) A single or sectional ladder manufactured pursuant to these rules shall not be used by more than 1 person at a time.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed. (c) Portable ladders. The employer must ensure: (3) Ladders are not loaded beyond the maximum intended load. Note to paragraph (c)(3): The maximum intended load, as defined in §1910.21(b), includes the total load (weight and force) of the employee and all tools, equipment, and materials being carried.
R 408.10446 Use of step ladders.	
Rule 446. (1) A step ladder which is being used shall be opened fully and its spreaders locked.	1910.22 GENERAL REQUIREMENTS (d) Inspection, maintenance, and repair. The employer must ensure: (1) Walking-working surfaces are inspected, regularly and as necessary, and maintained in a safe condition.
(2) Each leg of a step ladder shall be in contact with solid footing. A board or plank may be used to secure footing on uneven ground.	1910.23 LADDERS (c) Portable ladders. The employer must ensure: (4) Ladders are used only on stable and level surfaces unless they are secured or stabilized to prevent accidental displacement.
(3) If a step ladder does not have a guard rail, the top step and cap shall not be used to work from or to climb on.	1910.23 LADDERS (c) Portable ladders. The employer must ensure: (8) The cap (if equipped) and top step of a stepladder are not used as steps.
(4) A folded step ladder shall not be used as a straight ladder by leaning it against a wall or other support.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure:

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	(8) Ladders are used only for the purposes for which they were designed.												
(5) When carrying objects up ladders, 1 hand should be kept free to maintain balance and security.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (12) Each employee uses at least one hand to grasp the ladder when climbing up and down it; and (13) No employee carries any object or load that could cause the employee to lose balance and fall while climbing up or down the ladder.												
(6) The bracing on the back legs of a step ladder shall not be used for climbing, except as provided in R 408.10434 of this part.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed.												
R 408.10447 Use of straight, sectional, and extension ladders.													
Rule 447. (1) A straight, sectional, or extension ladder shall be placed so that the side rails have a secure footing. Where the surface is uneven, boards, planks, or leveling jacks may be used to create an even surface. A straight, sectional, or extension ladder shall have safety feet. The ladder shall be placed so as to prevent slipping or it shall be lashed or held in position.	Secure footing: 1910.23 LADDERS (c) Portable ladders. The employer must ensure: (4) Ladders are used only on stable and level surfaces unless they are secured or stabilized to prevent accidental displacement. Safety feet broken or missing: 1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury. (10) Any ladder with structural or other defects is immediately tagged "Dangerous: Do Not Use" or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced. Preventing slipping: 1910.23 LADDERS (c) Portable ladders. The employer must ensure: (9) Portable ladders used on slippery surfaces are secured and stabilized.												
(2) A portable non-self-supporting ladder should be erected at a pitch of 75 1/2 degrees for maximum balance and strength. This may be accomplished by placing the base out from the wall or other support 1/4 of the working length of the ladder.	 <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Angle</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>≤30°</td> <td>Ramps</td> </tr> <tr> <td>30° - 45°</td> <td>Standard Stairs</td> </tr> <tr> <td>45° - 60°</td> <td>Step Stairs</td> </tr> <tr> <td>60° - 70°</td> <td>Alternating Tread-Type Stairs</td> </tr> <tr> <td>80° - 90°</td> <td>Ladders</td> </tr> </tbody> </table>	Angle	Type	≤30°	Ramps	30° - 45°	Standard Stairs	45° - 60°	Step Stairs	60° - 70°	Alternating Tread-Type Stairs	80° - 90°	Ladders
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(3) Ladders shall not be tied or fastened together to	1910.23 LADDERS												

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provide longer sections other than with the hardware provided by the manufacturer.	(c) Portable ladders. The employer must ensure: (12) Ladders and ladder sections are not tied or fastened together to provide added length unless they are specifically designed for such use.
(4) A person using a straight or extension ladder shall not stand on the top 2 rungs or within 3 feet from the top of the ladder.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed.
(5) If the top of the ladder is secured to an object, the user may secure himself to the ladder by placing 1 leg over the second rung above the rung on which he is standing.	No equivalent
(6) When using a ladder to go from 1 landing to another, the ladder shall extend above the upper landing by not less than 3 feet.	1910.23 LADDERS (c) Portable ladders. The employer must ensure: (11) Portable ladders used to gain access to an upper landing surface have side rails that extend at least 3 feet (0.9 m) above the upper landing surface (see Figure D-1 of this section).
(7) The top rest for a straight or extension ladder shall be reasonably rigid and shall have ample strength to support the applied load.	1910.23 LADDERS (c) Portable ladders. The employer must ensure: (3) Ladders are not loaded beyond the maximum intended load. Note to paragraph (c)(3): The maximum intended load, as defined in §1910.21(b), includes the total load (weight and force) of the employee and all tools, equipment, and materials being carried.
NONWOOD LADDERS	
R 408.10451 Construction of ladders.	
Rule 451. (1) The design and construction of a portable nonwood ladder shall be such as to produce a ladder without structural defects or accident hazards such as sharp edges or burrs.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (7) Ladder surfaces are free of puncture and laceration hazards.
(2) Rungs or steps of portable nonwood ladders shall be corrugated, knurled, dimpled, coated with skid-resistant material, or otherwise treated to minimize the possibility of slipping.	1910.23 LADDERS (c) Portable ladders. The employer must ensure: (1) Rungs and steps of portable metal ladders are corrugated, knurled, dimpled, coated with skid-resistant material, or otherwise treated to minimize the possibility of slipping.
R 408.10452 Specifications.	
Rule 452. (1) A nonwood straight or extension ladder shall comply with R 408.10426 to R 408.10428, except a nonwood portable extension ladder with an interlocking rail section, such as a channel, shall have not less than a single guide iron on each rail.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed. (c) Portable ladders. The employer must ensure: (3) Ladders are not loaded beyond the maximum intended load. Note to paragraph (c)(3): The maximum intended load, as defined in §1910.21(b), includes the total load (weight and force) of the employee and all tools, equipment, and materials being carried. (12) Ladders and ladder sections are not tied or fastened together to provide added length unless they are specifically designed for such use.
(2) To be classified as a standard length ladder, the measured length shall be within plus or minus 1/2 inch of the specified length. A nonwood step ladder which exceeds 16 feet in length shall not be used. The bottom of each rail of a nonwood step ladder shall have nonslip material.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure: (8) Ladders are used only for the purposes for which they were designed. (c) Portable ladders. The employer must ensure: (9) Portable ladders used on slippery surfaces are secured and stabilized.
(3) A nonwood trestle ladder or extension sections or base section of a nonwood extension trestle ladder shall comply with R 408.10427.	1910.23 LADDERS (b) General requirements for all ladders. The employer must ensure:
(4) The length of a nonwood platform ladder shall not exceed 16 feet.	(8) Ladders are used only for the purposes for which they were designed.
(5) A nonwood platform ladder shall comply with R 408.10422.	

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R 408.10454 Nonwood ladder care and maintenance.	
Rule 454. (1) A nonwood ladder shall be maintained pursuant to R 408.10441 and R 408.10442(3), (4), and (5).	<p>1910.23 LADDERS</p> <p>(b) General requirements for all ladders. The employer must ensure:</p> <p>(8) Ladders are used only for the purposes for which they were designed.</p> <p>(9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury.</p> <p>(10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced.</p> <p>(c) Portable ladders. The employer must ensure:</p> <p>(2) Each stepladder or combination ladder used in a stepladder mode is equipped with a metal spreader or locking device that securely holds the front and back sections in an open position while the ladder is in use.</p> <p>(9) Portable ladders used on slippery surfaces are secured and stabilized.</p>
(2) A nonwood ladder shall be inspected before being used and after it has fallen or been involved in an accident to determine its condition.	<p>1910.23 LADDERS</p> <p>(b) General requirements for all ladders. The employer must ensure:</p> <p>(9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury.</p>
(3) A nonwood ladder shall be repaired or replaced if it shows cracked, bent, or twisted side rails or legs; rungs where opposite surfaces are bent or deformed; loose or broken rivets and bolts, or other fasteners; broken or bent spreaders, guides, or locks.	<p>1910.23 LADDERS</p> <p>(b) General requirements for all ladders. The employer must ensure:</p> <p>(9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury.</p> <p>(10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced.</p>
R 408.10456 Use of nonwood ladders.	
Rule 456. (1) A metal ladder, except a ladder provided and used by a life support organization such as a fire department, shall not be furnished or used near an exposed or open electrical source.	<p>1910.23 LADDERS</p> <p>(a) Application. The employer must ensure that each ladder used meets the requirements of this section. This section covers all ladders, except when the ladder is:</p> <p>(1) Used in emergency operations such as firefighting, rescue, and tactical law enforcement operations, or training for these operations.</p> <p>(b) General requirements for all ladders. The employer must ensure:</p> <p>(8) Ladders are used only for the purposes for which they were designed.</p>

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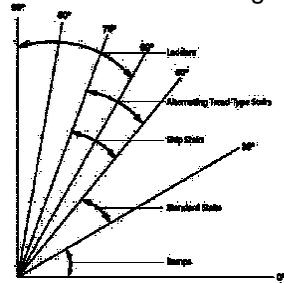
OLD GI PART 4 PORTABLE LADDERS (RESCINDED)	NEW GI PART 2, WALKING-WORKING SURFACES (EFFECTIVE FEBRUARY 2, 2018)												
<p>(2) A nonwood ladder shall be used pursuant to R 408.10445 to R 408.10447.</p>	<p>1910.22 GENERAL REQUIREMENTS</p> <p>(d) Inspection, maintenance, and repair. The employer must ensure:</p> <p>(1) Walking-working surfaces are inspected, regularly and as necessary, and maintained in a safe condition.</p> <p>1910.23 LADDERS</p> <p>(b) General requirements for all ladders. The employer must ensure:</p> <p>(8) Ladders are used only for the purposes for which they were designed.</p> <p>(9) Ladders are inspected before initial use in each work shift, and more frequently as necessary, to identify any visible defects that could cause employee injury.</p> <p>(10) Any ladder with structural or other defects is immediately tagged “Dangerous: Do Not Use” or with similar language in accordance with §1910.145 and removed from service until repaired in accordance with §1910.22(d), or replaced.</p> <p>(11) Each employee faces the ladder when climbing up or down it.</p> <p>(12) Each employee uses at least one hand to grasp the ladder when climbing up and down it.</p> <p>(13) No employee carries any object or load that could cause the employee to lose balance and fall while climbing up or down the ladder.</p> <p>(c) Portable ladders. The employer must ensure:</p> <p>(3) Ladders are not loaded beyond the maximum intended load;</p> <p>Note to paragraph (c)(3): The maximum intended load, as defined in §1910.21(b), includes the total load (weight and force) of the employee and all tools, equipment, and materials being carried.</p> <p>(4) Ladders are used only on stable and level surfaces unless they are secured or stabilized to prevent accidental displacement.</p> <p>(7) Ladders placed in locations such as passageways, doorways, or driveways where they can be displaced by other activities or traffic:</p> <p>(i) Are secured to prevent accidental displacement.</p> <p>(ii) Are guarded by a temporary barricade, such as a row of traffic cones or caution tape, to keep the activities or traffic away from the ladder.</p> <p>(8) The cap (if equipped) and top step of a stepladder are not used as steps.</p> <p>(9) Portable ladders used on slippery surfaces are secured and stabilized.</p> <p>(11) Portable ladders used to gain access to an upper landing surface have side rails that extend at least 3 feet (0.9 m) above the upper landing surface (see Figure D-1 of this section).</p> <p>(12) Ladders and ladder sections are not tied or fastened together to provide added length unless they are specifically designed for such use.</p> <p>(13) Ladders are not placed on boxes, barrels, or other unstable bases to obtain additional height.</p> <div style="text-align: center;">  <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="font-size: small;">Angle</th> <th style="font-size: small;">Type</th> </tr> </thead> <tbody> <tr> <td style="font-size: small;">60°</td> <td style="font-size: small;">Stepladder</td> </tr> <tr> <td style="font-size: small;">60° - 65°</td> <td style="font-size: small;">Stepladders</td> </tr> <tr> <td style="font-size: small;">65° - 70°</td> <td style="font-size: small;">Stepladders</td> </tr> <tr> <td style="font-size: small;">60° - 75°</td> <td style="font-size: small;">Walking-Work-Type Stairs</td> </tr> <tr> <td style="font-size: small;">60° - 65°</td> <td style="font-size: small;">Ladders</td> </tr> </tbody> </table> </div>	Angle	Type	60°	Stepladder	60° - 65°	Stepladders	65° - 70°	Stepladders	60° - 75°	Walking-Work-Type Stairs	60° - 65°	Ladders
Angle	Type												
60°	Stepladder												
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Figure D-10 – Angles for Stairs, Ramps, and Ladders

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<p>(3) When in use, a nonwood, non-self-supporting ladder shall be placed so that the 2 side rails are supported, unless equipped with a single attachment capable of supporting the imposed load.</p>	<p>1910.23 LADDERS (c) Portable ladders. The employer must ensure: (10) The top of a non-self-supporting ladder is placed so that both side rails are supported, unless the ladder is equipped with a single support attachment.</p>