

APPLICABLE OSHA REGULATIONS DESIGNED TO:

OSHA 1910.23(e)(1) A standard railing shall consist of top rail, intermediate rail, and posts, and shall have a vertical height of 42 inches [1067 mm] nominal from upper surface of top rail to floor, platform, runway, or ramp level. The top rail shall be smooth-surfaced throughout the length of the railing. The intermediate rail shall be approximately halfway between the top rail and the floor, platform, runway, or ramp. The ends of the rails shall not overhang the terminal posts except where such overhang does not constitute a projection hazard.

OSHA 1910.23(e)(5)(iv) The mounting of handrails shall be such that the completed structure is capable of withstanding a load of at least 200 lb [91kg] applied in any direction at any point on the rail.

OSHA 1910.23(e)(6) All handrails and railings shall be provided with a clearance of not less than 3 inches [76mm] between the handrail or railing and any other object.

OSHA 1910.23(e)(3)(ii) For pipe railings, posts and top and intermediate railings shall be at least 1-1/2 [38mm] inches nominal diameter with posts spaced not more than 8 ft [2438 mm] on centers.

OSHA 1910.23(e)(2) A stair railing shall be of construction similar to a standard railing but the vertical height shall be not more than 34 inches [864 mm] nor less than 30 inches [762 mm] from upper surface of top rail to surface of tread in line with face of riser at forward edge of tread.

OSHA 1910.24(c) "Stair strength." Fixed stairways shall be designed and constructed to carry a load of five times the normal live load anticipated but never of less strength than to carry safely a moving concentrated load of 1,000 lb [454 kg].

OSHA 1910.24(d) "Stair width." Fixed stairways shall have a minimum width of 22 inches [559 mm].

OSHA 1910.24(e) "Angle of stairway rise," Fixed stairs shall be installed at angles to the horizontal of between 30 deg. and 50 deg. Any uniform combination of rise/tread dimensions may be used that will result in a stairway at an angle to the horizontal within the permissible range. Table D-1 gives rise/tread dimensions which will produce a stairway within the permissible range, stating the angle to the horizontal produced by each combination. However, the rise/tread combinations are not limited to those given in Table D-1.

Table D-1				
Angle to horizontal [mm]	Rise (in inches) [mm]		Tread run (in inches) [mm]	
30 deg. 35' [10668mm].....	6-1/2 [165mm].....	11 [279mm]		
32 deg. 08' [2438mm].....	6-3/4 [171mm].....	10-3/4 [273mm]		
33 deg. 41' [12497mm].....	7 [178mm].....	10-1/2 [267mm]		
35 deg. 16' [4877mm].....	7-1/4 [184mm].....	10-1/4 [260mm]		
36 deg. 52' [15850mm].....	7-1/2 [191mm].....	10 [254mm]		
38 deg. 29' [8839mm].....	7-3/4 [197mm].....	9-3/4 [248mm]		
40 deg. 08' [2438mm].....	8 [203mm].....	9-1/2 [241mm]		
41 deg. 44' [13411mm].....	8-1/4 [210mm].....	9-1/4 [235mm]		
43 deg. 22' [6706mm].....	8-1/2 [216mm].....	9 [229mm]		
45 deg. 00' [0mm].....	8-3/4 [222mm].....	8-3/4 [222mm]		
46 deg. 38' [11582mm].....	9 [229mm].....	8-1/2 [216mm]		
48 deg. 16' [4877mm].....	9-1/4 [235mm].....	8-1/4 [210mm]		
49 deg. 54' [14459mm].....	9-1/2 [241mm].....	8 [203mm]		

OSHA 1910.24(f) "Stair treads." All treads shall be reasonably slip-resistant and the nosings shall be of non-slip finish. Welded bar grating treads without nosings are acceptable providing the leading edge can be readily identified by personnel descending the stairway and provided the tread is serrated or is of definite nonslip design. Rise height and tread width shall be uniform throughout any flight of stairs including any foundation structure used as one or more treads of the stairs.

OSHA 1910.144(a)(3) Yellow. Yellow shall be the basic color for designating caution and for marking physical hazards such as: Striking against, stumbling, falling, tripping, and "caught in between."

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OSHA 1924.451(f)(16) Platforms shall not deflect more than 1/60 of the span when loaded.

OSHA 1910.26(c)(3)(iii) The ladder base section must be placed with a secure footing.

OSHA 1910.26(c)(3)(iv) The top of the ladder must be placed with the two rails supported, unless equipped with a single support attachment.

OSHA 1910.27 Fixed ladders.

OSHA 1910.27(a) Design requirements-(1) Design considerations. All ladders, appurtenances, and fastenings shall be designed to meet the following load requirements:

OSHA 1910.27(a)(1)(i) The minimum design live load shall be a single concentrated load of 200 lb [91 kg].

OSHA 1910.27(a)(1)(ii) The number and position of additional concentrated live load units of 200 lb [91 kg] each as determined from anticipated usage of the ladder shall be considered in the design.

OSHA 1910.27(a)(1)(iii) The live loads imposed by persons occupying the ladder shall be considered to be concentrated at such points as will cause the maximum stress in the structural member being considered.

OSHA 1910.27(a)(1)(iv) The weight of the ladder and attached appurtenances together with the live load shall be considered in the design of rails and fastenings.

OSHA 1910.27(b) Specific features-(1) Rungs and cleats. (i) All rungs shall have a minimum diameter of three-fourths inch for metal ladders, except as covered in paragraph (b)(7)(i) of this section and a minimum diameter of 1 1/8 inches [29 mm] for wood ladders.

OSHA 1910.27(b)(1)(ii) The distance between rungs, cleats, and steps shall not exceed 12 inches [305 mm] and shall be uniform throughout the length of the ladder.

OSHA 1910.27(b)(1)(iii) The minimum clear length of rungs or cleats shall be 16 inches [406 mm]

OSHA 1910.27(b)(2) Side rails. Side rails which might be used as a climbing aid shall be of such cross sections as to afford adequate gripping surface without sharp edges, splinters, or burrs.

OSHA 1910.27(b)(6) Welding. All welding shall be in accordance with the "Code for Welding in Building Construction" (AWS D1.0-1966).

OSHA 1910.27(c)(5) Clearance in back of grab bar. The Clear distance from the centerline of the grab bar to the nearest permanent object at the back of the grab bars shall be not less than 4 inches [102 mm]. Grab bars shall not protrude on the climbing side beyond the rungs of the ladder which they serve.

OSHA 1910.27(d)(2)(iii) One rung of any section of ladder shall be located at the level of the landing laterally served by the ladder. Where access to the landing is through the ladder, the same rung spacing as used on the ladder shall be used from the landing platform to the first rung below the landing.

OSHA 1910.27(d)(3) Ladder extensions. The side rails of through or side-step ladder extensions shall extend 3 ½ feet [1067mm] above parapets and landings. For through ladder extensions, the rungs shall be omitted from the extension and shall have not less than 18 [457 mm] nor more than 24 inches [610 mm] clearance between rails. For side-step or offset fixed ladder sections, at landings, the side rails and rungs shall be carried to the next regular rung beyond or above the 3 ½ feet [1067 mm] minimum. (fig. D-10).

OSHA 1910.27(d)(4) Grab bars. Grab bars shall be spaced by a continuation of the rung spacing when they are located in the horizontal position. Vertical grab bars shall have the same spacing as the ladder side rails. Grab-bar diameters shall be the equivalent of the round-rung diameters.

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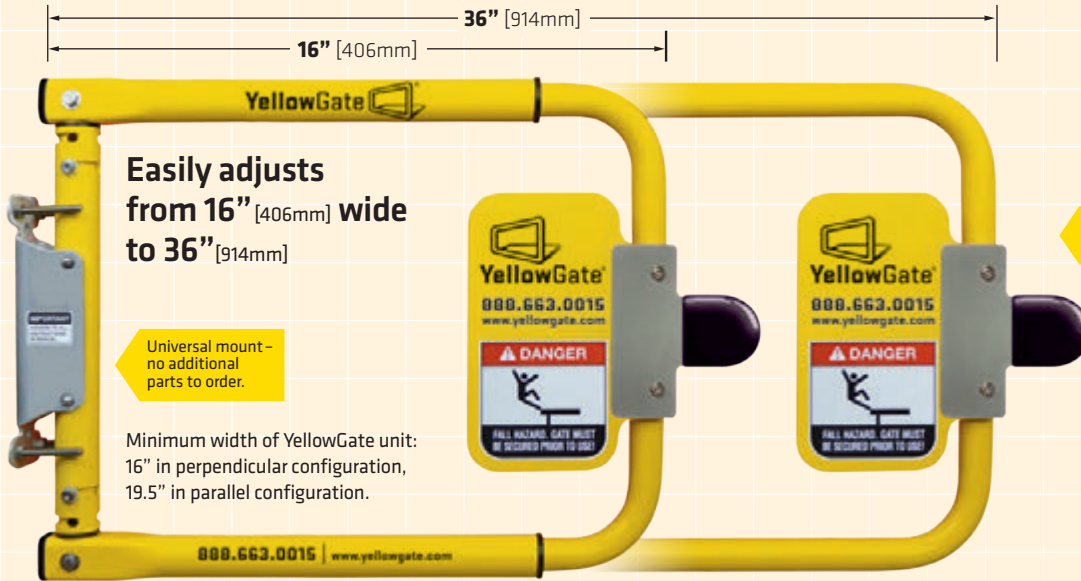


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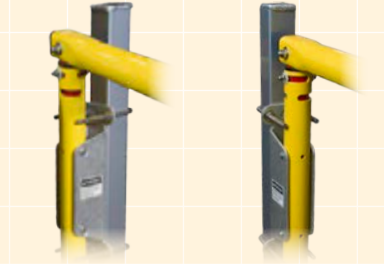
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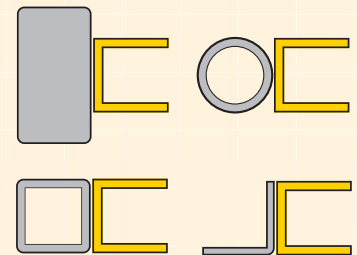
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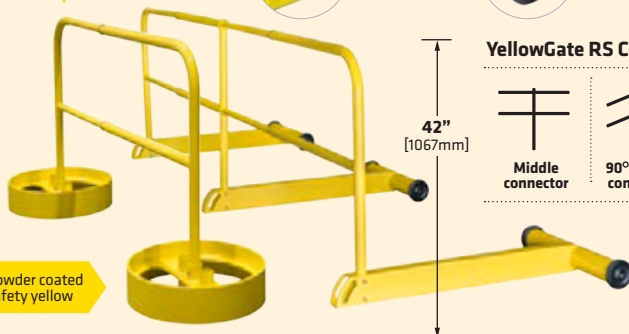
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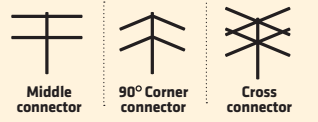
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2" [51mm] Handrails

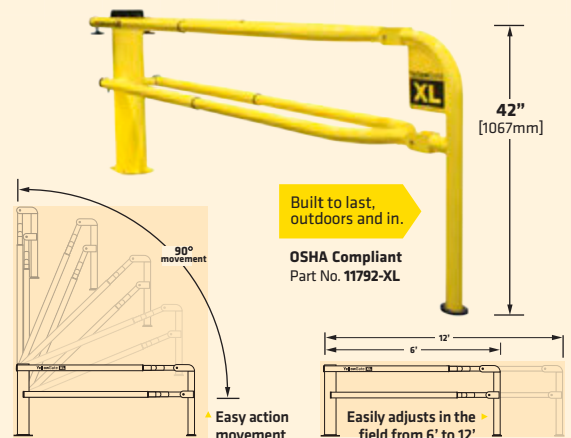


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