

§ 1917.121

29 CFR Ch. XVII (7-1-10 Edition)

75° from the horizontal may be used if they:

- (i) Are capable of a single concentrated load of 200 pounds (890 N) at the tread centers;
 - (ii) Have open treads at least 4 inches (10.16 cm) in depth and 18 inches (45.72 cm) in width with a uniformly spaced vertical rise between treads of 6 to 9.5 inches (15.24 to 24.13 cm); and
 - (iii) Have handrails that meet the requirements of §1917.112(c)(1) on both sides and that are not less than 30 inches (76.2 cm) in height from the tread surface at the riser face.
- (6) Maintenance. Fixed stairways shall be maintained in safe condition and shall not be obstructed.

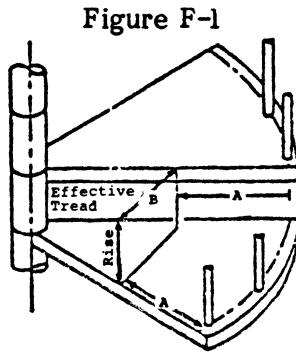
[48 FR 30909, July 5, 1983, as amended at 65 FR 40942, June 30, 2000]

§ 1917.121 Spiral stairways.

(a) *Definition.* “Spiral stairway” means one with closed circular form, uniform sector-shaped treads and a supporting column.

(b) *Requirements.* Spiral stairways shall meet the following requirements:

- (1) Stairways shall conform to the minimum dimensions of Figure F-1;



SPIRAL STAIRWAY—MINIMUM DIMENSIONS

| | A (half-tread width) | B |
|--------------------------|-----------------------|----------------------|
| Normal use by employees. | 11 inches (27.94 cm). | 6 inches (15.24 cm). |
| Limited access | 9 inches (22.86 cm). | 5 inches (12.7 cm). |

- (2) Stairway risers shall be uniform and shall range from 6½ to 10½ inches (16.5 to 26.67 cm) in height;

- (3) Minimum loading capability shall be 100 pounds per square foot (4.79kN), and minimum tread center concentrated loading shall be 300 pounds (1334 N);

- (4) Railings shall conform to the requirements of §1917.112(c)(1). If balusters are used, there shall be a minimum of one per tread. Handrails shall be a minimum of 1¼ inches (3.18 cm) in outside diameter; and

- (5) Vertical clearance shall be at least 6 feet, 6 inches (1.98 m) above the top step.

- (c) *Maintenance.* Spiral stairways shall be maintained in safe condition.

[48 FR 30909, July 5, 1983, as amended at 62 FR 40201, July 25, 1997; 65 FR 40942, June 30, 2000]

§ 1917.122 Employee exits.

- (a) Employee exits shall be clearly marked.

- (b) If an employee exit is not visible from employees’ work stations, directional signs indicating routes to the exit shall be posted.

- (c) Exits shall be readily accessible and sufficient in number to provide employees with a convenient means of escape in emergencies. A clear passage to the exit shall be maintained.

- (d) The minimum width of any employee exit shall be 28 inches (71.12 cm).

[48 FR 30909, July 5, 1983, as amended at 65 FR 40942, June 30, 2000]

§ 1917.123 Illumination.⁹

- (a) Working and walking areas shall be illuminated. Unless conditions described in the regulations of the United States Coast Guard (33 CFR 126.15(1) and (n), and 33 CFR 154.570) exist in the case of specific operations, illumination in active work areas (for example, cargo transfer points) shall be of an average minimum light intensity of 5 foot-candles. The illumination in other work areas (for example, farm areas) shall be of an average minimum light intensity of 1 foot-candle except for security purposes when a minimum light intensity of ½ foot-candle shall be

⁹The United States Coast Guard, at 33 CFR 126.15(1) and (n), and 33 CFR 154.570 sets out requirements for illumination at “designated waterfront facilities” and “large oil transfer facilities.”