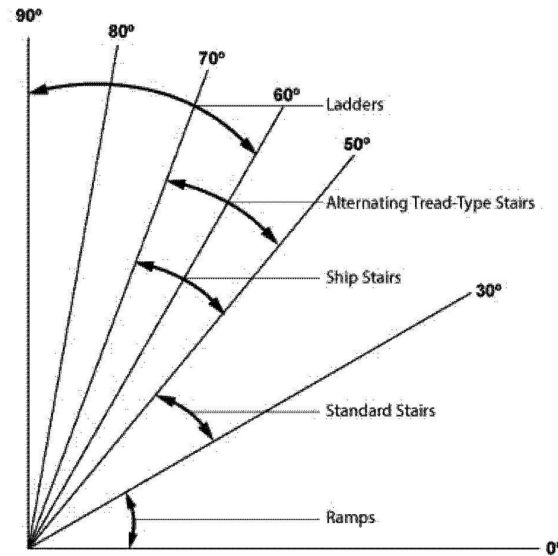


**WAC 296-24-74030 Alternating tread-type stairs.** Alternating tread-type stairs have a series of steps between 50 and 70 degrees from horizontal, attached to a center support rail in an alternating manner so that a user of the stairs never has both feet at the same level at the same time. (See Figure D-11 of this section.)

(1) You must ensure that alternating tread-type stairs are designed, installed, used, and maintained in accordance with approved manufacturer's specifications, and have the following:

- (a) Stair rails on all open sides;
- (b) Handrails on both sides of enclosed stairs;
- (c) Stair rails and handrails of such configuration as to provide an adequate handhold for a user grasping it to avoid a fall;
- (d) A distance of 17 to 24 inches between handrails;
- (e) A minimum width of 22 inches overall;
- (f) A minimum tread depth of 8.5 inches;
- (g) A minimum tread width of 7 inches;
- (h) A maximum rise of 9.5 inches to the tread surface of the next alternating tread; and
- (i) Open risers if the tread depth is less than 9.5 inches (24 cm).

(2) You must ensure that alternating tread-type stairs have not more than a 20-foot continuous rise. You must provide one or more intermediate stair platforms in accordance with WAC 296-24-74005 where more than a 20-foot rise is necessary to reach the top of a required stair.



Angle	Type
$\leq 30^\circ$	Ramps
$30^\circ - 50^\circ$	Standard Stairs
$50^\circ - 70^\circ$	Ship Stairs
$50^\circ - 70^\circ$	Alternating Tread-Type Stairs
$60^\circ - 90^\circ$	Ladders

**Figure D-10 - Angles for Stairs, Ramps, and Ladders**

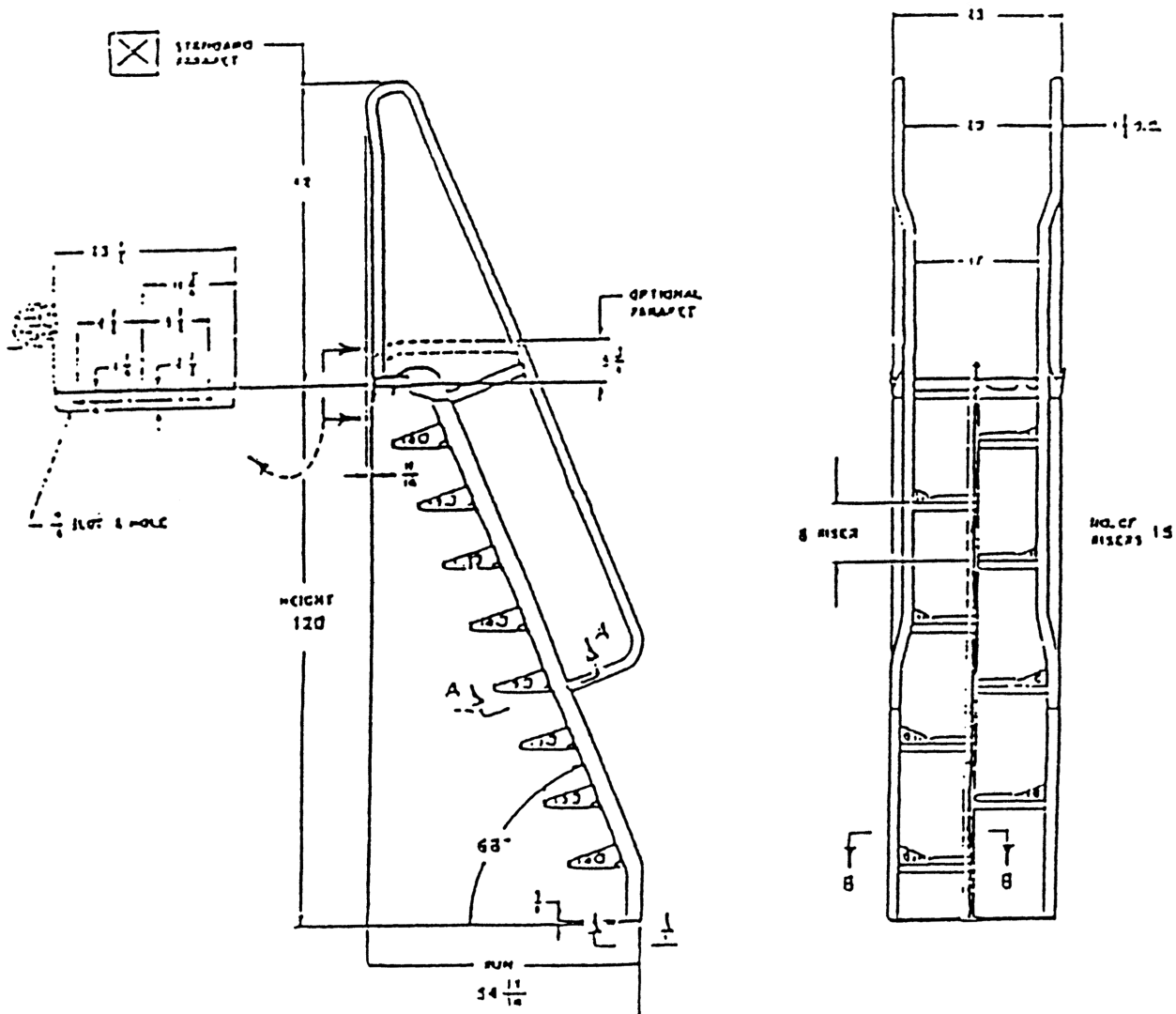


Figure D-11

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060 and chapter 49.17 RCW. WSR 20-09-146, amended and recodified as § 296-24-74030, filed 4/21/20, effective 10/1/20. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 15-24-100, § 296-24-76555, filed 12/1/15, effective 1/5/16. Statutory Authority: Chapter 49.17 RCW. WSR 92-17-022 (Order 92-06), § 296-24-76555, filed 8/10/92, effective 9/10/92; WSR 91-03-044 (Order 90-18), § 296-24-76555, filed 1/10/91, effective 2/12/91.]