

SNYDER

Equipment, Inc.

Storing, Rolling, Lifting since 1947



PRODUCT INFORMATION

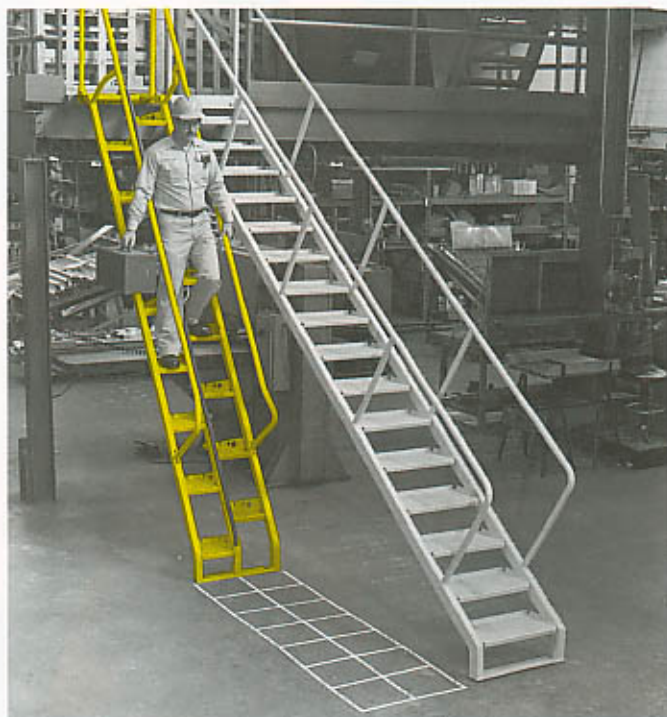
LAPEYRE ALTERNATING TREAD STAIRS

2946 Larimer St. Denver, CO 80205
303-295-1100 / 800-373-7693
FAX 303-295-2464
Email info@snyderequipment.com
www.snyderequipment.com

The Lapeyre® Safety Stair

When There's No Room for a Conventional Stair, Use a Lapeyre® Safety Stair

When space is limited, knowledgeable architects and engineers use Lapeyre alternating tread stairs. They know that Lapeyre stairs are safer than the other limited space options of vertical ladders and ship's ladders. So, if space is at a premium and safety is important, the smart solution is the space-saving Lapeyre Safety Stair.



In Addition To Saving Space, The Lapeyre Safety Stair Offers These Benefits:



Small items can easily be carried up or down the stair.

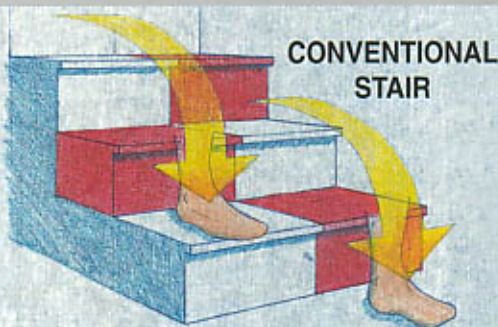
Close fitting handrails provide better support and control.

Unique, alternating tread design permits comfortable, face forward descents.

Cushioned central stringer all but eliminates the possibility of hitting the nosing of a tread.

- *Meets OSHA requirements*
- *Safer than ship's ladders as proven in Virginia Tech study*
- *Custom height built*

How The Lapeyre Stair Works



CONVENTIONAL STAIR

Imagine walking down (or up) a conventional stair. Each foot normally uses only about half of each tread, stepping out and over the unused section (shaded red).



STEEP STAIR

On a steeper stair or ladder, the unused half tread becomes an obstacle, significantly reducing the usable tread depth of the tread directly below. As the angle increases, the problem becomes worse.



LAPEYRE STAIR

In contrast, the Lapeyre® stair removes the unused half of each tread, allowing the foot to reach the next tread in a straight, direct line, providing more usable tread depth.

The Lapeyre Stair Solution



Codes

The following codes address the use of alternating tread stairs in certain applications. The codes themselves and/or local code officials should be consulted for specific requirements. Call 1-800-535-7631 to obtain a copy of any of the following:

U.S. FEDERAL OSHA OSHA's proposed revision of industry standards for workplace walking and working surfaces (29 CFR part 1910) addresses alternating tread type stairs. (Section 1910.25, of Federal Register / Vol. 55, No. 69 / April 10, 1990 / Proposed Rules). See our website for links to OSHA information.

INTERNATIONAL BUILDING CODE (IBC 2000 paragraphs 1003.3.10, 1007.1 and 1007.5) permits alternating tread stairs to be installed as follows:

- In Factory Industrial Group F, Hazardous Group H and Storage Group S buildings as a means of egress from mezzanines not more than 250 square feet (23 m²) in area and serving no more than five occupants.
- In Institutional Group I-3 (prisons) as a means of egress from guard towers and observation stations or control rooms not more than 250 square feet (23 m²) in area.
- As a second means of egress from boiler, incinerator, furnace rooms and lighting access catwalks.
- For access to unoccupied roofs.

NFPA LIFE SAFETY CODE The 2000 edition of NFPA 101 Life Safety Code permits alternating tread stairs as an alternative to ladders for unoccupied roofs, towers, elevated platforms, boiler rooms and storage occupancies. (Sections 7-2.11 and 42.2.2.11)

U.S. COAST GUARD In September 1984, the U.S. Coast Guard issued a letter addressing the use of alternating tread stairs and the authorized locations on inspected vessels. (Document #16711)

CANADIAN MINISTRY OF HOUSING A November 1988 letter states that alternating tread stairs could serve as a secondary stair for convenience purposes.

Materials and Finishes

	Finishes	Angles	Heights
STEEL STAIRS	Carbon Steel in Safety Yellow Powder Coat or Hot Dipped Galvanized. Stainless Steel with Natural Finish.	56° and 68°	Custom Built 56" (36 to 240 inches) 68" (42 to 240 inches)
ALUMINUM STAIRS	Natural Finish.	68°	Custom Built (24 to 216 in.)
MOBILE STAIRS	Carbon Steel in Safety Yellow Powder Coat or Hot Dipped Galvanized. Stainless Steel with Natural Finish.	56°	3', 4', 5', 6', 7', and 8'



STEEL TREAD DESIGN

ALUMINUM TREAD DESIGN



Applications

Mezzanines



Alternating tread design provides a greater tread depth than vertical ladders or ship's ladders.

Roof Tops



Unique design allows for comfortable face forward descents at steep angles.

Hatches



An optional handrail accommodates roof hatch applications providing safe access to rooftops.

Crossovers



Provides access over conveyors, pipelines and container walls when you need a safe, easy access up and over.

Marine Applications



Lapeyre stairs offer access to marine applications where space and safety are a consideration.

Heavy Duty Mobile Stair



The semi-cantilevered design allows the user to work safely and easily over heavy equipment and conveyors.

Technical Data

DIMENSIONAL / TECHNICAL DATA	56° STEEL	68° STEEL	68° ALUMINUM
Minimum Height, Floor to Floor	36" (91.44 cm)	42" (106.68 cm)	24" (60.96 cm)
Maximum Height, Floor to Floor**	240" (609.60 cm)	240" (609.60 cm)	216" (548.64 cm)
Overall Height, (Std. Handrails)	H + 42" (106.68 cm)	H + 42" (106.68 cm)	H + 42" (106.68 cm)
Overall Height, (Opt'l Handrails)	H + 5 3/4" (14.61 cm)	H + 5 3/4" (14.61 cm)	H + 3 3/4" (9.53 cm)
Overall Width	23" (58.42 cm)	23" (58.42 cm)	23" (58.42 cm)
Run (within +/- 1 inch (25.4 cm))	0.675 (H-6.42) + 9.5 0.675 (H - 16.301 cm) + 24.13 cm	0.404 (H-7.517) + 9.5 0.404 (H - 19.093 cm) + 24.13 cm	0.404 (H-7.175) + 9.5 0.404 (H - 18.225 cm) + 24.13 cm
Recommended Minimum Floor Opening, Width	35" (88.90 cm)	35" (88.90 cm)	35" (88.90 cm)
Recommended Minimum Floor Opening, Length	70" (177.8 cm) + 2/3 Floor Thickness	62" (157.48 cm) + 2/5 Floor Thickness	62" (157.48 cm) + 2/5 Floor Thickness
Minimum Riser Height	6.25" (15.875 cm)	7.517" (19.093 cm)	7.175" (18.225 cm)
Maximum Riser Height	7.50" (19.05 cm)	9.020" (22.911 cm)	9.566" (24.298 cm)
Approximate Net Weight	1.428(H) + 32 lbs. (H<120") 1.688(H) + 34 lbs. (H≥120") 0.255(H) + 14.52 Kg (H<3.05m) 0.301(H) + 15.42 Kg (H≥3.05m)	1.332(H) + 21 lbs. (H<144") 1.488(H) + 31 lbs. (H≥144") 0.238(H) + 9.53 Kg (H<3.66 m) 0.266(H) + 14.06 Kg (H≥3.66 m)	0.690 (H) + 20 lbs. 0.1232 (H) + 9.07 Kg

H = height from upper finished floor to lower finished floor in inches (centimeters).

The above formulas are for estimating purposes and are subject to change without notice. For more complete data, call for a complimentary dimensional print.

**To reduce vibration, stairs in excess of 15' (4.57 m) may require customer supplied sway bracing. For vertical heights in excess of 15' (4.57 m), Lapeyre Stair recommends an intermediate platform with two stairs of equal height. (Customer supplied bracing required.)

Installation Details

1. When ordering, specify the change in elevation (H) between the upper finished floor surface where the top landing will attach (A) and the lower finished floor surface where the foot of the stair will be secured (B). *Be sure to take into account the effects of a sloping lower floor.*

2. A minimum of 6" (15.24 cm) should be provided between the handrails and any other object (a minimum of 12" (30.48 cm) between handrails on two adjacent stairs). *More than 6" (15.24 cm) is preferred to allow easier carrying of small objects outside the handrail.*

3. *Always* install the stair with the top tread at the same elevation as the upper finished floor or roof surface. For wall parapets, call Lapeyre Stair, Inc.

4. The stair is secured in place by bolts (not included) at top and bottom.

