


# INDUSTRIAL PRODUCT LINE

Continuously Elevating Standards

LAPEYRE  STAIR

 [www.lapeyrestair.com](http://www.lapeyrestair.com)



## A culture of continuous improvement forged from a tradition of excellence

Lapeyre Stair manufactures precision-built access solutions  
for virtually every industry and application

- ✓ Pre-engineered products designed for customization
- ✓ Cost-effective, scalable solutions
- ✓ Easy integration across all product lines
- ✓ Modular components for quick, on-site assembly
- ✓ Commitment to zero-defect manufacturing
- ✓ Dedicated in-house resources

A photograph of J.M. Lapeyre, an older man with glasses, wearing a suit and tie, standing next to a yellow alternating tread stair. He is holding the handrail of the stair.

### ABOUT LAPEYRE STAIR

Lapeyre Stair is a division of Laitram, a forward-thinking company with an intense commitment to innovation, integrity, and continuous improvement. Laitram, headquartered in New Orleans, Louisiana, currently holds 1319 active patents.

↳ Laitram founder, J.M. Lapeyre, with two of his early-model alternating tread stairs. J.M. established Lapeyre Stair following the issue of the patent for the alternating tread stair in 1981.



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# Product overview

Lapeyre Stair's industrial product line consists of parametrically-designed components that are easily integrated into cost-effective access solutions that are custom-built to your exact specifications.



## Alternating tread stairs

The space-saving benefits of a steep stair or ladder with a safer and more comfortable user experience. Alternating tread stairs are used facing forward, just like standard stairs, meaning users can safely transport items in their hands when climbing up and down.



## Steel bolted stairs

Standard stairs available in a variety of tread, handrail, and finish options. The erection-bolt design is easily assembled on site without requiring expensive welding equipment or special labor. Steel bolted stairs are a cost-effective solution for both egress needs and equipment access.



## Other products

Create a complete, custom access solution for virtually any access requirement. Platforms, legs, and bracing kits easily integrate with alternating tread stairs and steel bolted stairs. Safety gates provide an increase measure of security for alternating tread stairs.

## Equipment access

Save time and money by partnering with the stair experts. Lapeyre Stair works with equipment manufacturers across all industries to provide the ideal access solution for their equipment.

## Facility access

- ✓ Mezzanines
- ✓ Rooftops
- ✓ Roof hatches
- ✓ Equipment access
- ✓ Machinery conveyors
- ✓ Crossover systems
- ✓ Work platforms
- ✓ Catwalks
- ✓ Pits
- ✓ Tanks

## Code compliance

Lapeyre Stair's products are designed to comply with major codes. Your order will be designed and manufactured based on the requirements of the code that applies to the installed location and intended use of your specified application.

CODE		ALTERNATING TREAD STAIRS	STEEL BOLTED STAIRS	
			MODELS 01/02	MODELS 03/04
	OSHA	✓	✓	✓
	IBC Industrial	✓	✓	✓
	IBC Commercial	✓		✓
	ADA			✓

NOTE: Local code requirements may vary from the requirements of major codes. Lapeyre Stair recommends that you have the provided dimensional prints for your project reviewed by local code officials to ensure compliance.

# Alternating tread stairs vs steel bolted stairs



68° ALTERNATING TREAD STAIR VS. STANDARD STAIR



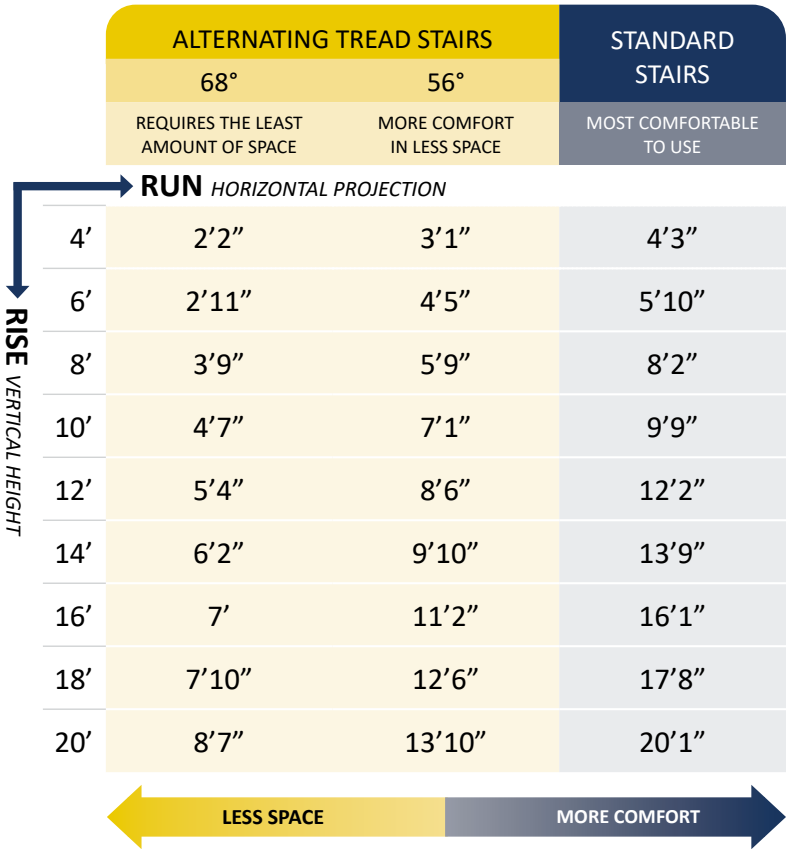
68° VS. 56° ALTERNATING TREAD STAIR

## More space

Choose steel bolted stairs for applications without space restrictions. They require more space to install than alternating tread stairs but they are also the most comfortable to use.

## Less space

For applications where space is limited, choose alternating tread stairs. 68° alternating tread stairs require the least amount of space but the steeper angle is less comfortable to use. The less steep angle of 56° alternating tread stairs is more comfortable to use while also requiring less space.



## ELEVATED STANDARDS

Our customer service team is available to answer your questions and help you determine the ideal solution for your needs.

Chart is intended for illustrative purposes only; measurements are rounded up to the nearest inch. Contact Lapeyre Stair for actual measurements and details regarding availability.

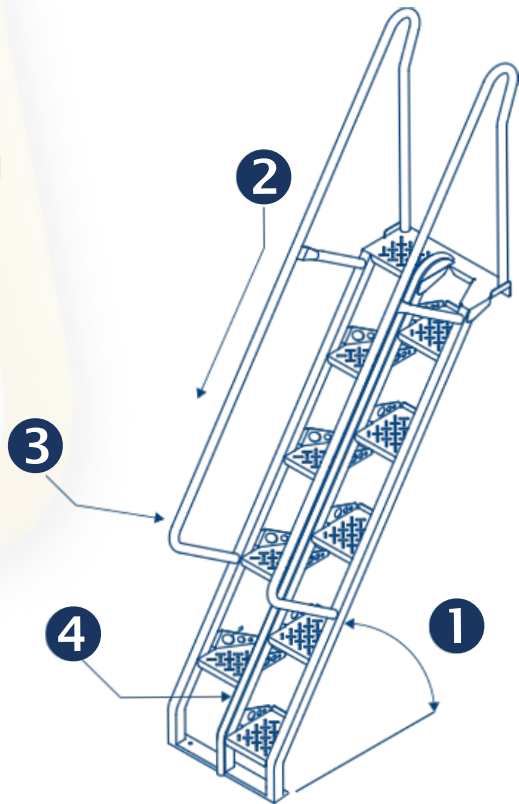


# Alternating tread stairs

Lapeyre Stair's innovative and ergonomic alternative to ship stairs and ladders provides maximum safety in a minimal amount of space

## Benefits of the alternating tread stair design

- 1 Smaller overall footprint than a standard stair
- 2 Forward-facing travel allows users to carry objects
- 3 Code-compliant handrails improve stability and ease of use
- 4 Cushioned central stringer reduces the risk of trips and falls



## Types of alternating tread stairs

- Carbon steel with powder coat finish**
- ✓ Our most popular and most used alternating tread stair
  - ✓ Ideal for most indoor applications
  - ✓ Standard colors: safety yellow, iron gray, primer gray
  - ✓ Custom RAL colors are also available



- Carbon steel with galvanized finish**
- ✓ Ideal for outdoor applications
  - ✓ Hot-dipped galvanized finish

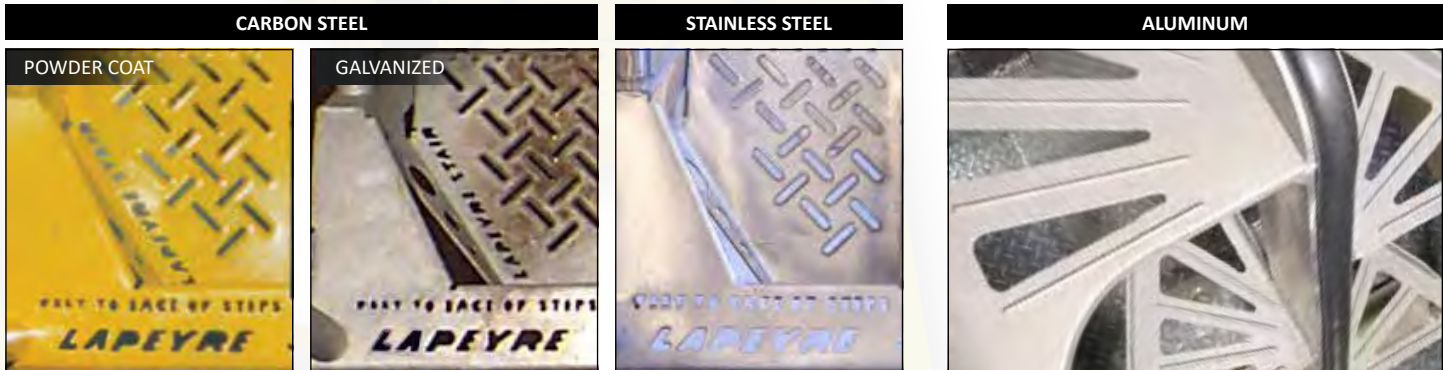
- Stainless steel with natural finish**
- ✓ Easy-to-clean finish
  - ✓ Grade 304 stainless steel

- Aluminum with natural finish**
- ✓ Lightweight
  - ✓ Resists corrosion

## Standard options

	ANGLES		HANDRAILS		
	56°	68°	STANDARD	OPTIONAL	FLUSH
STEEL (ALL)	✓	✓	✓	✓	✓
ALUMINUM		✓	✓	✓	


 ROOF HATCH INSIDE ACCESS




Three-stringer design with treads welded to the stringers. Ships with unattached handrails that bolt into place during installation.

Central stringer design with treads welded to the handrails. Ships as one, complete piece.

## ALTERNATING TREAD VS FIXED LADDERS



- ✓ Forward-facing design
- ✓ Hands are free to carry items
- ✓ Neutral body posture
- ✓ Less energy exerted
- ✓ Hand contact not required
- ✓ Increased tread depth



- ✗ Device-facing design
- ✗ Three-point contact
- ✗ Flexed body posture
- ✗ More energy exerted
- ✗ Hand force and torque
- ✗ Increased risk of foot slips

### OSHA FALLS FROM LADDERS ACCOUNT FOR 20% OF ALL FATAL AND LOST WORK-DAY INJURIES IN GENERAL INDUSTRY

- ✓ Alternating tread stairs must be equipped with compliant handrails on both sides

§1910.28(b) and §1910.29(f)

Alternating tread stairs from Lapeyre Stair are **fully compliant upon installation**

- ✗ Personal fall arrest/ladder safety system required
- ✗ System performance and use requirements
- ✗ Worker training requirements

§1910.28(b), §1910.140, and §1910.30

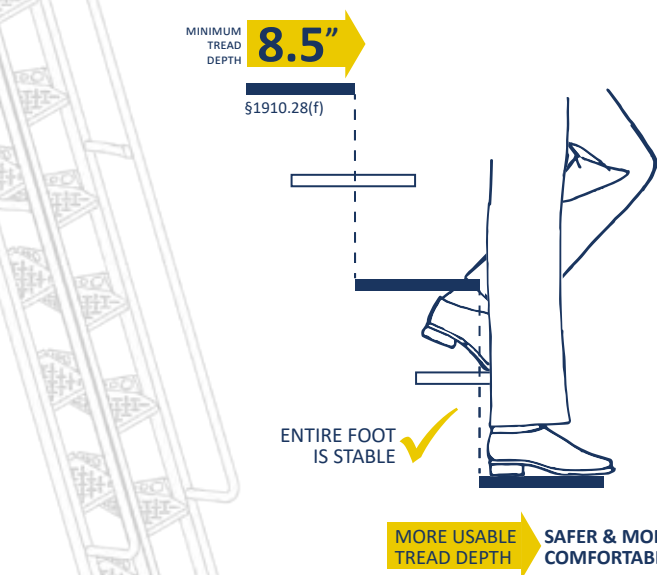
Employers have additional requirements to ensure compliance with fixed ladders over 24'

SOURCE: 2017 UPDATES TO GENERAL INDUSTRY WALKING-WORKING SURFACES AND FALL PROTECTION STANDARDS

## ALTERNATING TREAD VS SHIP STAIRS

89% PREFERRED FOR SAFER TREAD DEPTH

85% PREFERRED FOR MORE COMFORTABLE TREAD DEPTH



MINIMUM TREAD DEPTH 8.5" §1910.28(f)

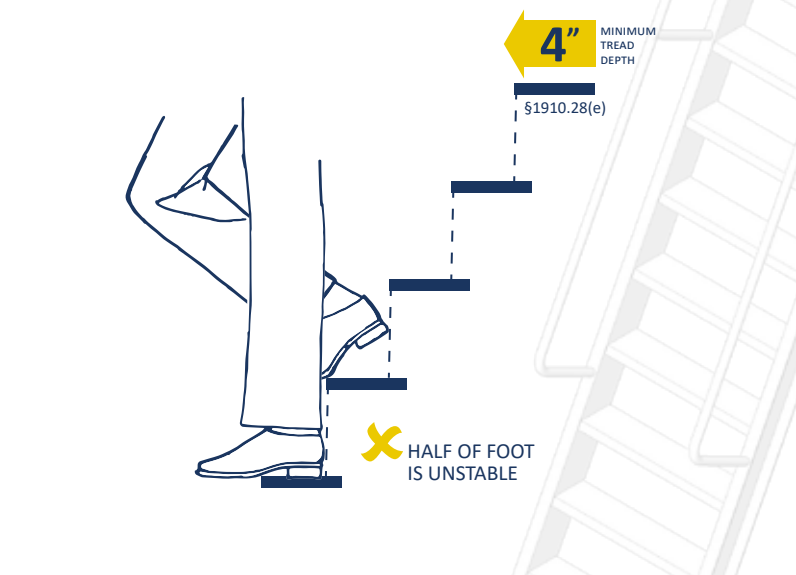
ENTIRE FOOT IS STABLE ✓

MORE USABLE TREAD DEPTH

SAFER & MORE COMFORTABLE

73% MORE OVERALL MISSTEPS

129% MORE MISSTEPS WHEN DESCENDING WITH A LOAD



MINIMUM TREAD DEPTH 4" §1910.28(e)

HALF OF FOOT IS UNSTABLE ✗

\*SOURCE: Findings from a VA Tech study comparing alternating tread stairs to ship stairs published in the proceedings of the Human Factors Society's 32nd Annual Meeting.

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# Steel Bolted Stairs

Lapeyre Stair's pre-engineered standard stairs can be quoted in minutes over the phone and have an easy-to-assemble, erection bolt design that can be installed without welding

## Benefits

- ✓ Lower design, fabrication, shipping, and assembly costs
- ✓ Simple assembly on site, even in compact spaces
- ✓ Cost-effective solution for retrofits and renovations
- ✓ No welding or expensive equipment required for installation

## Model 01/02

OSHA-compliant stairs that can be quickly assembled and disassembled at job sites without certified welders

## Applications

- ✓ Industrial egress
- ✓ Industrial equipment access
- ✓ Crossover systems
- ✓ Mezzanine egress
- ✓ Catwalk access
- ✓ Dock stairs

## Features

- ✓ Handrails and guardrails meet applicable code requirements
- ✓ Baluster spacing is adjustable within specified code
- ✓ Carbon steel treads in standard or custom widths
- ✓ Choice of diamond plate, concrete pan, grip, or bar grate treads
- ✓ Choice of hot-dip galvanized or powder coat finish
- ✓ Custom heights up to 240"
- ✓ Variable angles up to 50°



## Model 03/04

IBC-compliant egress stairs for applications with limited assembly space, self-installations, and exterior stair towers

## Applications

- ✓ Commercial egress
- ✓ Accessible commercial egress

## Features

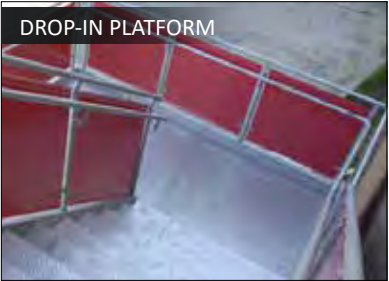
- ✓ Includes IBC-compliant inside handrail
- ✓ Choice of full baluster or filler panel guardrail
- ✓ Carbon steel treads in standard or custom widths
- ✓ Choice of diamond plate, concrete pan, or smooth treads
- ✓ Choice of hot-dip galvanized or powder coat finish
- ✓ Custom heights up to 144"
- ✓ Variable angles based on height, width, and tread type

# Other products

## Platforms

### Formed platforms

- ✓ Compatible with alternating tread stairs and steel bolted stair models 01/02
- ✓ Single piece of cut metal formed to create a walking surface with kick plates and mounting plates
- ✓ Includes 42" rails configured for the chosen platform
- ✓ Ideal for crossover systems, intermediate landings, exit landings, and equipment access platforms
- ✓ Standard and custom sizes available (maximum size is 54" x 144")



### Drop-in platforms

- ✓ Compatible with steel bolted stair models 03/04
- ✓ Choice of diamond plate, bar grate, or concrete pan
- ✓ Rails and infill to match the rest of the system
- ✓ Ideal for egress stair systems
- ✓ No size limitations

## Supports

### Legs

- ✓ Computer-calculated based on system requirements
- ✓ 3" or 4" square tube (depending on strength requirements)
- ✓ Bracing is added to the legs of taller units as needed
- ✓ ¾" thick bottom base plate with four bolts
- ✓ ¼" thick top plate attaches to underside of platform
- ✓ Multi-level system legs connect to the platform sides

### Cross bracing

- ✓ Maximizes the stability of the system
- ✓ Custom lengths in choice of material with stainless steel hardware
- ✓ Mounting brackets are welded to the legs of the system
- ✓ Determined by the design of the system and the application



## Alternating tread stairs options

### Safety gates

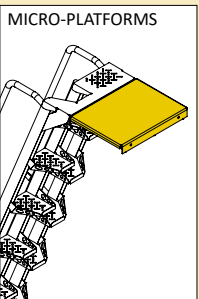
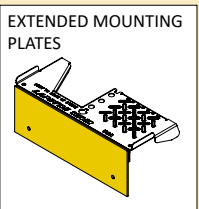
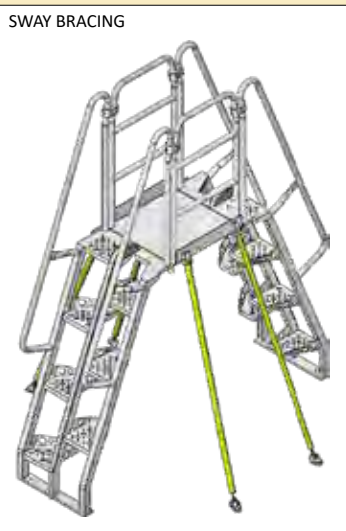
- ✓ Attach at the top of the handrails and are fully reversible to allow 180° travel

### Sway bracing

- ✓ Provides additional stability and prevents swaying on standard crossover systems

### Micro-platforms and extended mounting plates

- ✓ Add-ons for alternating tread stairs that overcome a number of common installation challenges



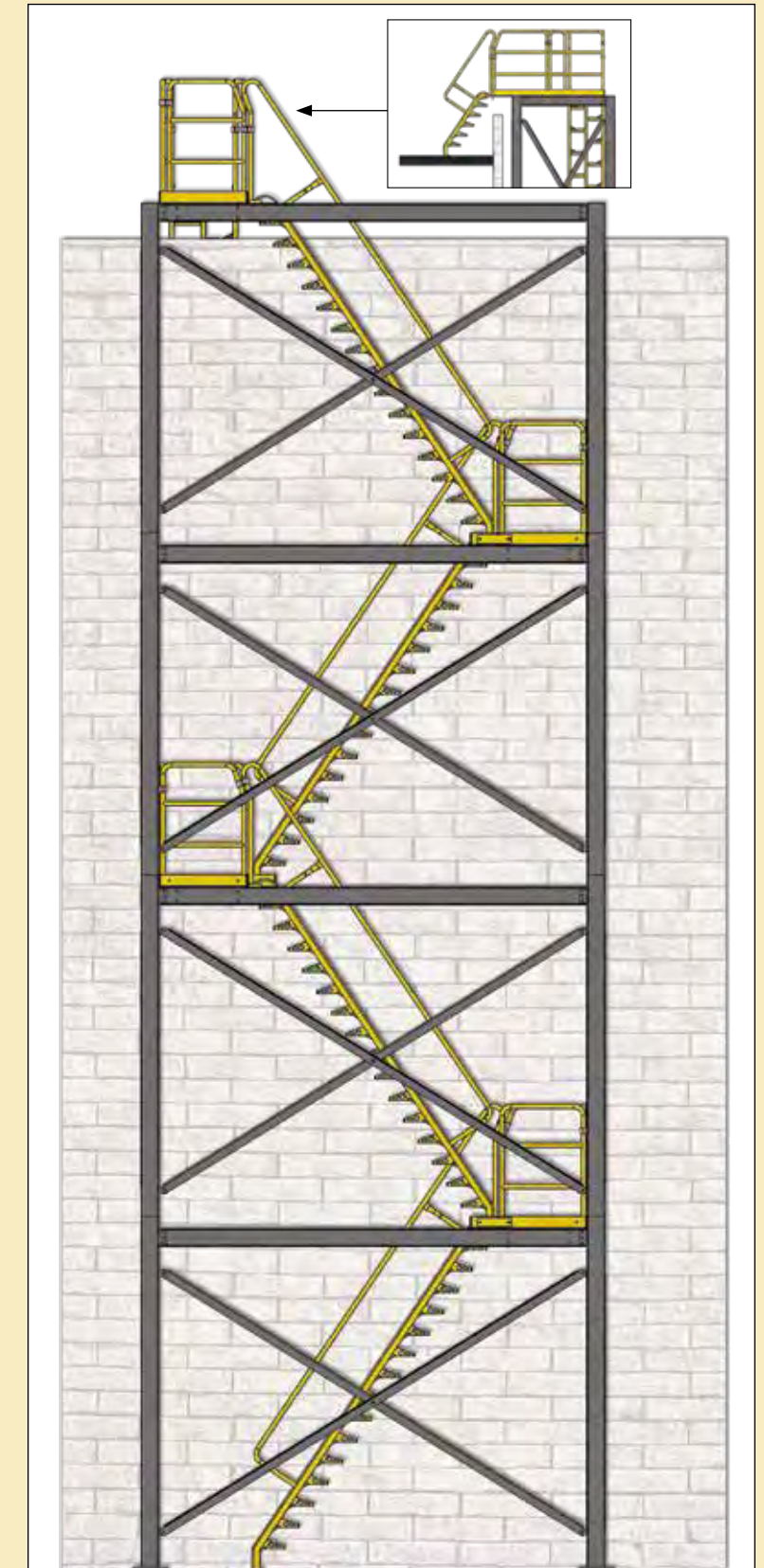


## Equipment access



## TOWER OVER THE COMPETITION

The parametric design of Lapeyre Stair's self-supporting alternating tread stair tower is easily scaled to meet your needs. The installed system occupies significantly less space than standard stairs and, unlike ladders, does not require additional fall protection at heights over 24 feet.





## PROJECT PROFILE STERLING SYSTEMS & CONTROLS

Sterling Systems & Controls uses an alternating tread stair on their bulk weighing system and steel bolted stairs on their batch baking system. By outsourcing their access needs to Lapeyre Stair, the team at Sterling Systems is able to dedicate their time and resources to the design and development of their complex systems and provide their customers with ready-to-use equipment.



## PROJECT PROFILE J MARK SYSTEMS



As part of the design-build services included in the preferred supplier agreement, Lapeyre Stair developed a custom solution for J Mark Systems' industrial water preparation and wastewater treatment equipment. Steel bolted stairs, platforms and legs provide access to the equipment and also house a number of the operational components of the equipment.



## PROJECT PROFILE BLAST CLEANING TECHNOLOGIES

Blast Cleaning Technologies uses steel bolted stairs from Lapeyre Stair on their monorail shot blasting equipment. The standardized design of the stairs provides a cost-effective, easy-to-install solution for the various access requirements of the equipment.



**ELEVATED STANDARDS** Lapeyre Stair offers a **preferred supplier agreement** for equipment manufacturers and other customers who have ongoing and/or large-scale needs. Benefits of the agreement include:

- ✓ Discounted pricing
- ✓ On-site troubleshooting
- ✓ Design-build services
- ✓ Expedited lead times
- ✓ Field measurement assistance
- ✓ Product development input



Facility access





# Crossover systems



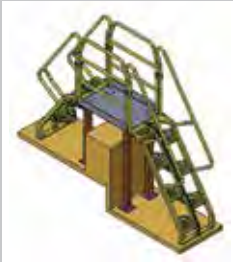
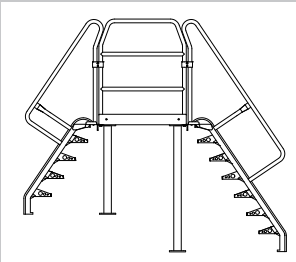
## OVERCOME YOUR OBSTACLES TO SAFETY

Lapeyre Stair makes easy work of providing safe access with integrated systems in custom sizes and configurations



# PARAPET CROSSOVER

Maintenance workers needed safe access over a parapet between two rooftops of varying heights. Lapeyre Stair designed and manufactured a carbon steel crossover with two alternating tread stairs based on the heights of the two rooftops.

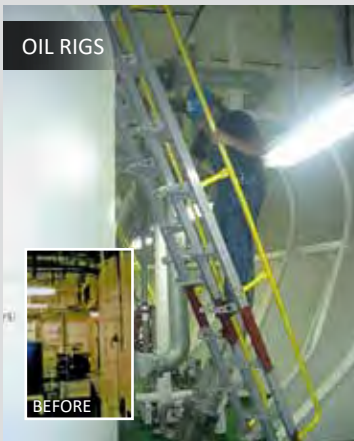
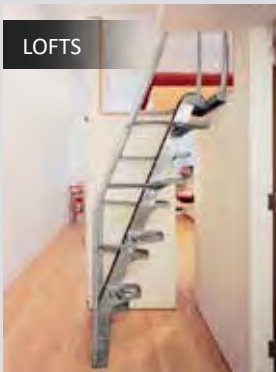


# Roof access





# Other applications



ALSO AVAILABLE

### Commercial product line

Lapeyre Stair also manufactures steel egress stairs for commercial applications. **Contact us to learn more.**

- ✓ Condos/apartments
- ✓ Office buildings
- ✓ Hospitals
- ✓ Hotels
- ✓ Parking garages
- ✓ Multi-level self storage facilities

A photograph showing a set of stairs with a yellow handrail and a Lapeyre Stair component installed on the wall.

Ready to take the next step?

Contact us or visit our web site for more information

✉ [Ls.sales@lapeyrestair.com](mailto:Ls.sales@lapeyrestair.com)

☎ 800-535-7631  
504-733-6009

🌐 [www.lapeyrestair.com](http://www.lapeyrestair.com)








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