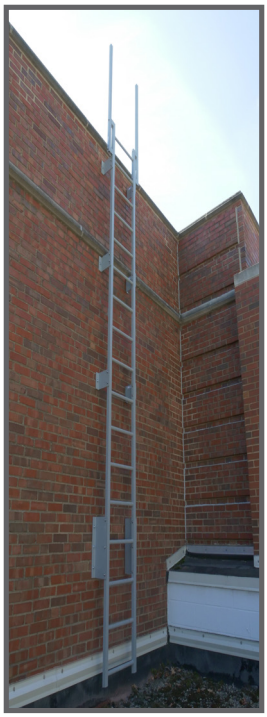
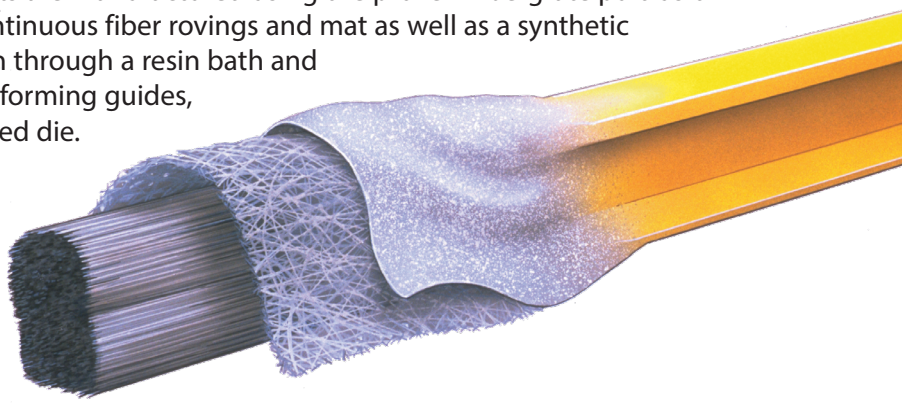
Dynarail® FRP Safety Ladder

AVAILABLE THROUGH Fibergrate Composite Structures TREMCO Roofing & Building Maintenance



Combining corrosion resistance, long life and a low maintenance design, Dynarail® ladder systems are superior to conventional metallic systems. These advanced systems are designed and manufactured to be easily installed with no guesswork involved. Components are lightweight and easy to fabricate. Savings on labor and equipment often make the total installed cost of Dynarail ladders comparable to that of steel. Combining its low cost of installation with low maintenance and long life, Dynarail ladders offers a life cycle cost that is significantly lower than that of its counterparts.

Dynarail ladder components are manufactured using the proven Fibergrate pultrusion process. In this process, continuous fiber rovings and mat as well as a synthetic veil are mechanically drawn through a resin bath and shaped through a series of forming guides, then pulled through a heated die. All ladders used in outdoor applications also have a proprietary, secondarily applied UV Coating to ensure a long life even in the harshest UV environments.



Dynarail Ladder Benefits

Corrosion Resistant: Dynarail® fiberglass ladder systems are known for their ability to provide corrosion resistance in the harshest environments and chemical exposures.

Electrically & Thermally Non Conductive: Fiberglass is electrically non conductive for safety and has low thermal conductivity which results in a more comfortable product when physical contact occurs.

Low Install Cost: Due to ease of fabrication and lightweight, FRP ladders eliminate the need for heavy lifting equipment. Components are also labeled with tags that correspond to engineering drawings to ensure time-efficient and accurate installation.

Slip Resistant: Ladder rungs include heavily serrated flutes for positive, slip resistant footholds; also ungritted rungs are easy on the hands, while still ensuring safety.

Low Maintenance: The corrosion resistant properties of Fibergrate's FRP products reduce or eliminate the need for sandblasting, scraping and painting. Products are also easily cleaned with a high pressure washer.

UV Protection: UV inhibitors in the resin matrix, along with a synthetic surfacing veil, provide optimum protection from the effects of UV weathering. All ladders will include a secondary proprietary UV Coating for performance in intense UV exposure.

Specifications

Safety Ratings

Meets OSHA Requirements:
- 1926.1050
- 1926.1051
- 1926.1053
- 1926.23
- 1910.28(b)(1)
- 1910.29(b)

USA
- 1910.28(b) (9)

Canada
- 1910.27

ANSI
- A14.3-2008

Ontario Ministry of Labor
- Engineering Data Sheet 2-04

Ontario Occupational and Safety Act
- Reg 851 (18)

Resin Systems

ISOFR
- Isophthalic polyester resin formulation
- Low flame spread rating of 25 or less
- Designed for applications where there is moderate exposure to corrosive elements

VEFR
- Vinyl ester resin system with a flame spread of 25 or less for dependable resistance to both acidic and alkaline environments

Size

Available heights:
- 8′
- 10′
- 12′
- 14′
- 16′
- 18′
- 20′
- 24′

Dynarail® FRP Safety Ladder

The innovative Dynarail® fiberglass reinforced plastic (FRP) safety ladder and cage system meets or exceeds OSHA requirements. Dynarail cage components are shipped in compact kit form - not large, bulky units prone to damage.

Ladders are stocked in standard heights of 8', 10', 12', 14', 16', 18', 20' and 24' and are available in taller heights using splice kits. Ladders can be ordered in a LADDER ONLY format or as a KIT that includes the ladder as well as the appropriate number of wall mounts.

Safety features are built-in from the ground up. Special clip angles have been developed to securely anchor the ladder. Intermediate stand-off brackets laterally stabilize the ladder to the supporting structure on 6' centers. Ladder rungs include heavily serrated flutes for slip resistant footholds.

Technical Data *(Except where noted, all materials are yellow vinyl ester, fire retardant - VEFR)*

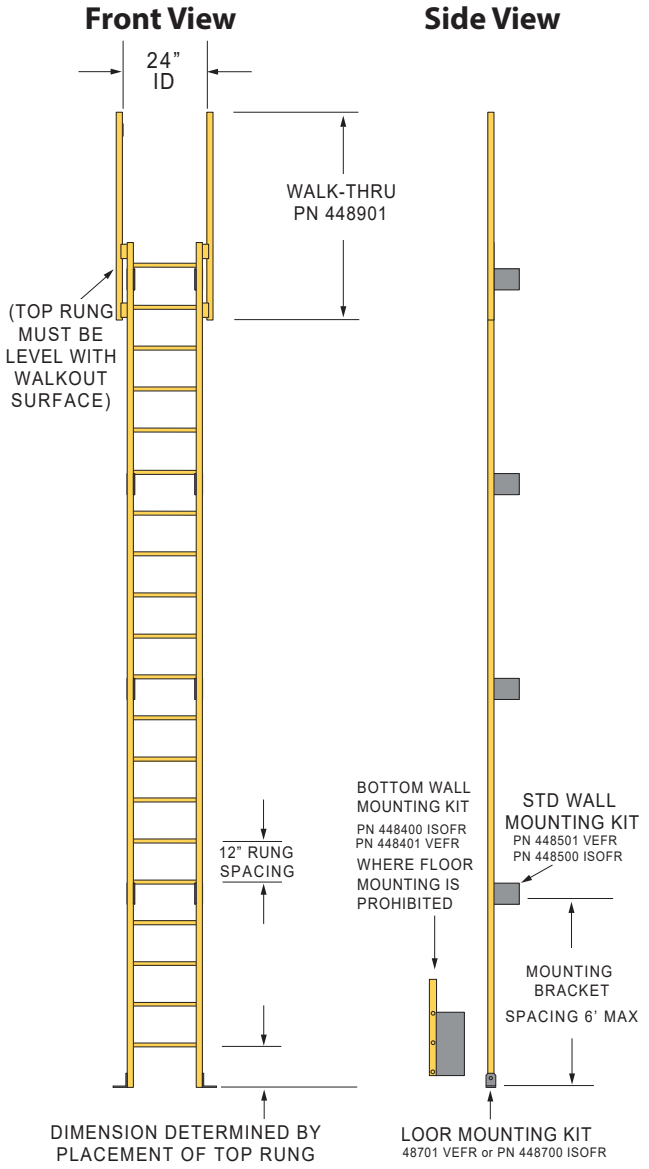
LADDER:

Maximum length without splice	24'-0"	Outside Diameter of rung	1-1/4"
Clear inside width (inside rail to rail)	18"	Inside Diameter of rung	3/4"
Outside width (outside rail to rail)	21-1/2"	Rail - outside width	1-3/4"
Rung Spacing (center to center)	12"	Rail - wall thickness	1/4"
		Weight per foot (approximately)	3.0 lbs.

Product	Description
Bottom Wall Mount Bracket Kit* (FG 448400 ISOFR Dk Gray) *Required when ladder cannot be floor mounted*	2-3/16" x 8" x 3/8" angle, 18" long Two per set *(with necessary bolt assemblies)*
Wall Mount Bracket Kit* (FG 448500 ISOFR Dk Gray)	2-3/16" x 8" x 3/8" angle, 6" long 7" from wall to center of rung Two per set *(with necessary bolt assemblies)*
Floor Mount Clip Kit* (FG448700 ISOFR Dk Gray)	4" x 4" x 3/8" angle, 2-3/4" long Two per set *(with necessary bolt assemblies)*
Ladder Rail Splice Kit (FG448600)	1-1/4" Square bar splice 1-3/4" x 1/4" Square tube rail
24" Wide Walk-thru Kit (FG448901.1 VEFR Yellow)	24" Walk thru post Walk thru spacer 1.5" x 1.5" End Cap

NOTE:** *Wall mount brackets and floor mount clips are predrilled with 9/16" diameter holes for 1/2" diameter anchor bolts only.* ***Anchor bolts not included.

Dynarail® Ladder System Data

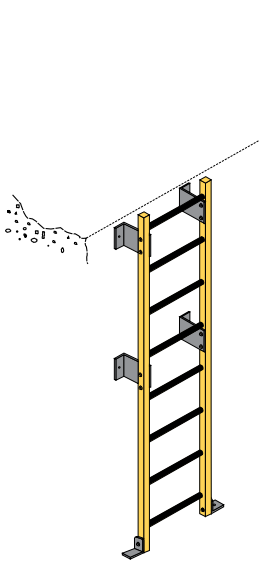


Component Selection Guide

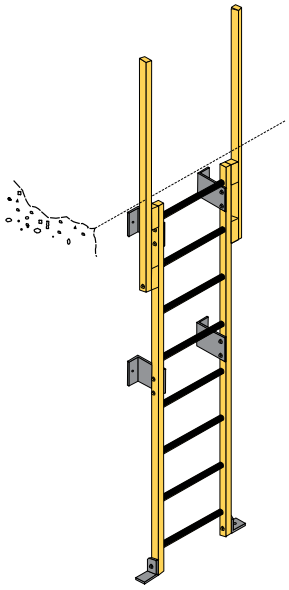
Ladder Mounting Accessories

Ladder Height *ISOFR-DK GRAY* *VEFR - BEIGE*	Floor Mount Kits Required PN 448700 ISOFR PN 448701 VEFR	Bottom Wall Mount Kits PN 448400 ISOFR PN 448401 VEFR	Wall Mount Kits Required PN 448500 ISOFR PN 448501 VEFR
0" to 6"	1	1	1
6' 6" to 12' 0"	1	1	2
12' 6" to 18' 0"	1	1	3
18' 6" to 24' 0"	1	1	4
24' 6" to 30' 0"	1	1	5
30' 6" to 36' 0"	1	1	6

Note: *Top rung step-off must be even with upper walking surface*

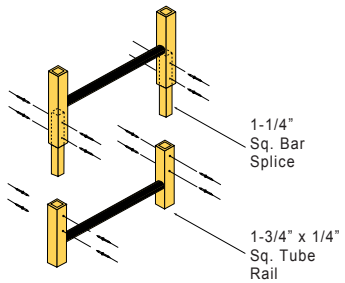


Ladder

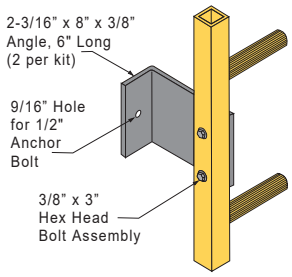


Ladder with 24" Walk-thru

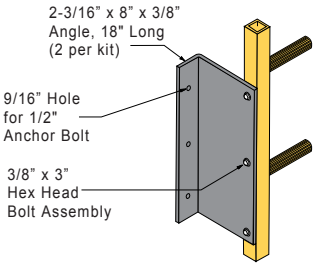
Assembly & Mounting Details



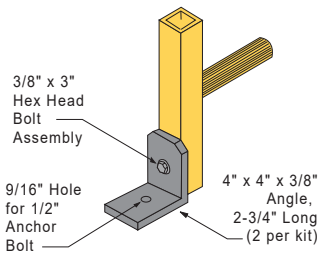
Ladder Splice Kit
PN 448600



Standard Wall Mount Kit
PN 448501 VEFR BEIGE



Bottom Wall Mount Kit
PN 448401 VEFR BEIGE



Floor Mount Kit
PN 448701 VEFR BEIGE