

HIGH PERFORMANCE COMPOSITE SOLUTIONS

























FRP Railing & Ladder Systems

The FRP guardrail, handrail, and ladder systems offered by Fibergrate Composite Structures combine corrosion resistance, long life and a low maintenance design, making them superior to conventional metallic systems. These advanced systems are designed and manufactured with lightweight components that are easy to fabricate and install. Savings on labor and equipment often make the total installed cost of FRP railing systems



comparable to that of steel. Combining lower installation costs with low maintenance and long life results in a significantly lower life cycle cost than that of its counterparts.



DYNARAIL® GUARDRAIL

The 1-3/4" x 1/8" pultruded square tube guardrail line includes everything needed to install OSHA- and IBC-compliant horizontal and inclined railing systems with either two or three rails. Fibergrate can also provide specialty picketed guardrail systems.

DYNAROUND™ GUARDRAIL

Fibergrate's newest guardrail solution is composed of 1.9" O.D. pultruded tubes. This UV-coated system was designed as a more durable alternative to standard aluminum and steel round railings. DynaRound can be used in applications where safety and ergonomics are a major concern. Round rails eliminate the flat surfaces of square tube systems which can become a resting place for tools and other equipment, creating potentially hazardous situations for dropping/falling objects. The rounded railing and corners also eliminate sharp edges, providing a more comfortable grip for end-users. In addition, the overall appearance of the system is more aesthetically pleasing than the square tube alternative because all fasteners are hidden which provides a smooth, clean look. Fibergrate can also provide customized round guardrail systems.

DYNARAIL® HANDRAIL

The Dynarail handrail (grab rail) system can be added to a Dynarail (square tube) or DynaRound (round tube) guardrail or wall to meet code requirements.

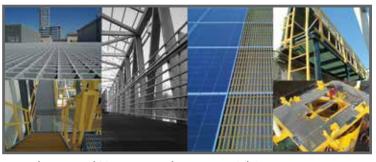
DYNARAIL® LADDERS

The Dynarail ladder line includes ladders, standard walkthrus and safety cages.

Dynarail and DynaRound components, including the railing, kickplate, and ladder rungs, 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.



FIBERGRATE MARKETS



- Architectural/Commercial
- Bridge & Highway
- Chemical
- Food & Beverage
- Manufacturing
- Metals & Mining

- Oil & Gas
- Power/Utilities
- Recreation
- Telecommunications
- Transportation
- Water & Wastewater

Dynarail® & DynaRound™ Railings & Ladders

Why Use FRP?



Corrosion Resistant: Dynarail® and DynaRound™ fiberglass railings and ladders are known for their ability to provide corrosion resistance in the harshest environments and chemical exposures.



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.



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 guardrail and handrail systems 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.



Fire Retardant: Flame spread rating of 25 or less, as tested in accordance with ASTM E-84, and meets the self-extinguishing requirements of ASTM D-635.



Long Service Life: Fiberglass products provide outstanding durability and corrosion resistance in demanding applications, therefore providing improved product life over traditional materials.



UV Protection: UV inhibitors in the resin matrix, along with a synthetic surfacing veil, provide optimum protection from the effects of UV weathering. (Note: An optional UV coating is required for Dynarail railing and ladder system installations with intense UV exposure. The DynaRound system is UV coated.)



NSF® Standard 61-Certified FRP Products:

Fibergrate is now able to offer NSF Standard 61-Certified Dynarail® FRP guardrail, handrail and ladder systems. These products complement the complete line

of NSF Standard 61-Certified Fibergrate® molded gratings, Dynaform® fiberglass structural shapes, and Safe-T-Span® pultruded gratings assembled from NSF Standard 61-Certified FRP components. Molded gratings are available in all Fibergrate® molded grating mesh patterns and thicknesses, except 4'x 12' Micro-Mesh® panels.



Heavy Metal Safe:

The EPA, OSHA and other regulatory agencies created to protect our lives and our

natural resources have increased legislation to control heavy metals such as lead, chrome, cadmium and other metals in all products where exposure is a health threat. Fibergrate Composite Structures Inc. supports this strengthened legislation and has, for more than 20 years, voluntarily tested for heavy metals in our products and minimized or eliminated heavy metals from our products.

Resin Systems

ISOFR

Isophthalic polyester resin formulation with a 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.

Table of Contents:

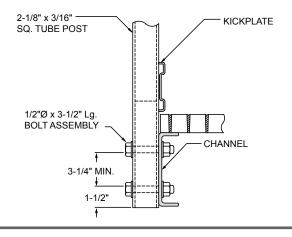
Dynarail Post Installation Methods	P. 4-5
Modular Dynarail Guardrail System	P. 6-7
DynaRound Post Installation Methods	P. 8-9
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Dynarail® Post Installation Methods

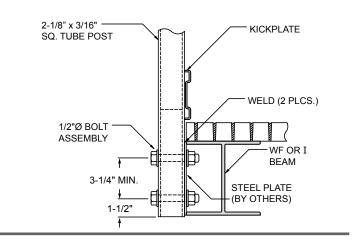
See page 7 for part numbers. For installation conditions not shown, contact Fibergrate.

All details are for posts spaced 6' max on centers to meet a F.O.S. of 2.0 under OSHA and IBC loads, unless noted otherwise.

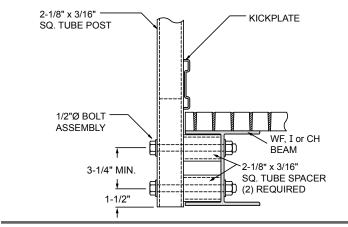
DRAWING A - POST TO FRP OR STEEL CHANNEL



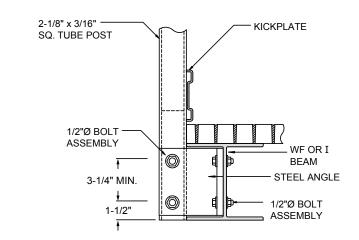
DRAWING B - POST TO STEEL PLATE ON STEEL BEAM



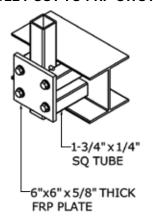
DRAWING C - POST TO FRP OR STEEL BEAM OR CHANNEL WITH FRP SPACERS



DRAWING D - POST TO STEEL ANGLE ON FRP OR STEEL BEAM



DRAWING E - REMOVABLE POST TO FRP OR STEEL BEAM

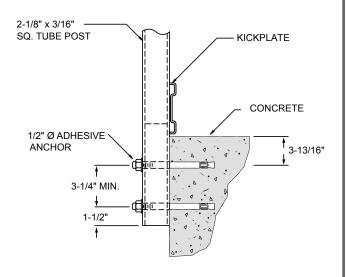


Dynarail® Post Installation Methods

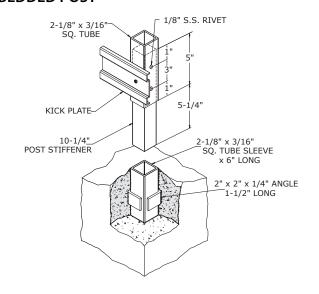
See page 7 for part numbers. For installation conditions not shown, contact Fibergrate.

All details are for posts spaced 6' max on centers to meet a F.O.S. of 2.0 under OSHA and IBC loads, unless noted otherwise.

DRAWING F - SIDE-MOUNTED POST

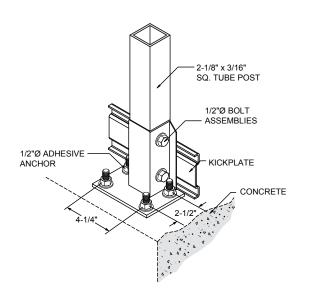


DRAWING G - EMBEDDED POST



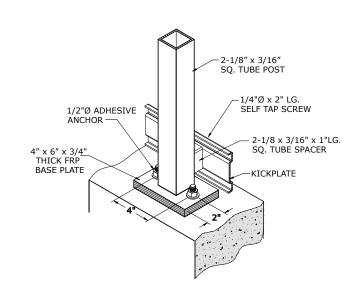
DRAWING H - TOP MOUNT STAINLESS STEEL STANCHION BASE

5'-6" max on center post spacing for IBC to meet a F.O.S. of 2.0



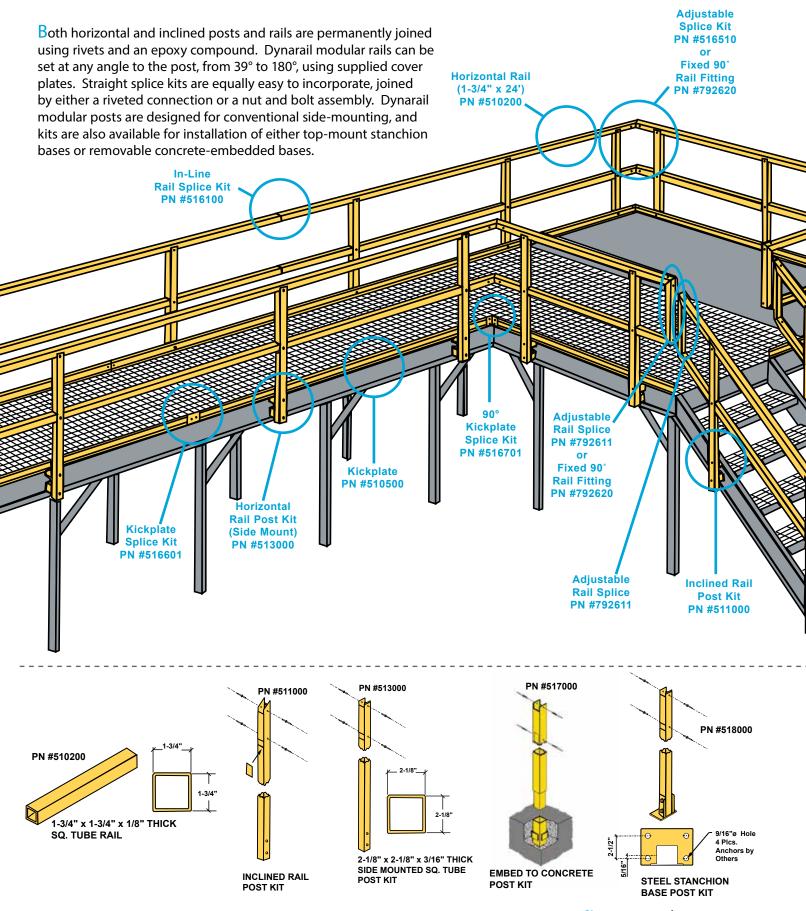
DRAWING I TOP MOUNT FRP STANCHION BASE

4' max on center post spacing for IBC to meet a F.O.S. of 2.0



MAX PULLOUT FORCE ON EACH CONCRETE ANCHOR BOLT			
	Drawing F	Drawing H	Drawing I
OSHA (200 lb)	2129 lbf	1292 lbf	2100 lbf
IBC (50 lb/ft)	3193 lbf	1777 lbf	2100 lbf

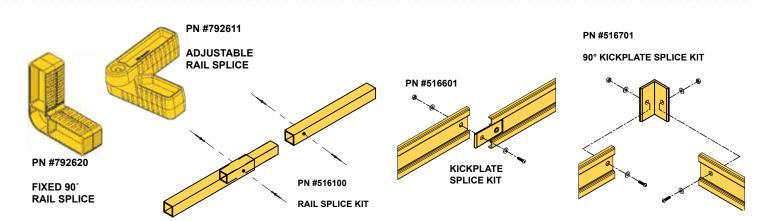
Dynarail® Modular Guardrail System



	DESCRIPTION			
PART #	# NOTE: All part numbers listed are ISOFR and are NON-UV coated items unless otherwise noted.			
	NOTE. All part numbers listed to	1 ea. Post 2-1/8" x 3/16" x 45" High Sq. Tube		
511000	Post Kit (Inclined Rail)	4 ea. Cover Plates 2-1/8" x 3-1/4"		
311000 1 Ost Kit (inclined Kall)		4 ea. Rivets 18-8 SS		
		1 ea. Post 2-1/8" x 3/16" x 50-1/4" High Sq. Tube (Undrilled)		
513000	Post Kit (Horizontal Rail)	4 ea. Rivets 1/8" x 3/8" 18-8 SS		
313000	Side Mount	1 ea. #10 x 1" Hex Washer Head Self Tap Screw		
		1 ea. Post 2-1/8" x 3/16" x 41-1/2" High		
		1 ea. 1-3/4" Sq. Bar Extension 5" Long		
517000	Post Kit (Horizontal Rail) Removable Concrete	1 ea. Sleeve 2-1/8" x 3/16" x 6" Sq. Tube (Ships Loose)		
317000	Embedded	4 ea. Rivets 18-8 SS		
		1 ea. #10 x 1" Hex Washer Head Self Tap Screw		
		1 ea. Post 2-1/8" x 3/16" x 41-1/4" High		
		1 ea. Stanchion Base 316 SS		
E10000	Post Kit (Horizontal Rail)			
518000	Top Mount (SS Base)	2 ea. Bolts 1/2" x 3" and Nuts 316 SS		
		4 ea. Rivets 18-8 SS		
		1 ea. #10 x 1" Hex Washer Head Self Tap Screw		
		1 ea. Post 2-1/8" x 3/16" x 40-3/4" High		
540000	Post Kit (Horizontal Rail) Top Mount (FRP Base)	1 ea. Stanchion Base FRP		
518200		1 ea 2-1/8" x 3/16" Sq. Tube Kickplate Spacer		
		1 ea. 1/4" Hex Bolt Assembly		
540500		4 ea. Rivets 18-8 SS		
510500	Kickplate	9/16" Deep x 4" High x 1/8" Thick x 24' Long		
516601	Kickplate Splice Kit (VEFR)	1 ea. Splice 1-3/4" x 4" x 3/16"		
	` '	2 ea. 1/4" x 1" x Socket Round Head Bolts, Nuts and Washers		
516701	Kickplate Splice Kit 90° (VEFR)	1 ea. Splice 2-1/8" x 1-1/8" x 3/16"		
	(VEFK)	2 ea. 1/4" x 1" x Socket Round Head Bolts, Nuts and Washers		
516510	Adjustable Splice Kit	2 ea. Adjustable Rail Splices		
		8 ea. Rivets 18-8 SS		
516400	90° Fixed Splice Kit	2 ea. Fixed 90° Rail Splices		
		8 ea. Rivets 18-8 SS		
516100	In-Line Splice Kit	1 ea. Splice 1-1/2" Sq. Tube		
E40000		4 ea. Rivets 18-8 SS		
510200	Rail	1-3/4" x 1/8" x 24' Long Yellow Square Tube		
792611	Adjustable Rail Splice	1 ea. Adjustable from 39° to 180°		
792620	90° Rail Splice	1 ea. Fixed 90° Railing Connector		
519105	In-Line Rail Splice	In-Line Splice Square 9-7/8"		
519170	End Cap	End Cap for 1-3/4" Sq. Tube Guardrail		
510100	Spacer Material	21' of 2-1/8" x 3/16" Yellow Square Tube		
Bonding material should be ordered with each shipment of railing material.				

Order 1 kit (# 549100) for every 15 posts

SI Conversions: inch = 25.4 mm 1 foot = .305 m 1 mm = .0394 inches 1 meter = 3.28 feet

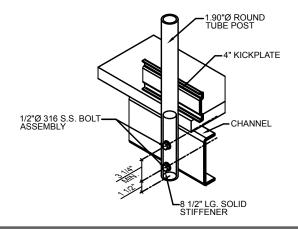


Adjustable Rail Splice PN #792611

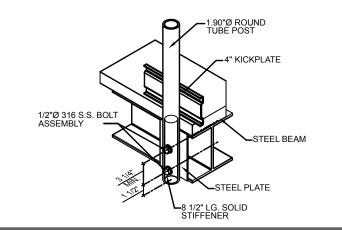
DynaRound™ Post Installation Methods

All details are for posts spaced 4' max on centers to meet a F.O.S. of 2.0 under OSHA and IBC loads, unless noted otherwise.

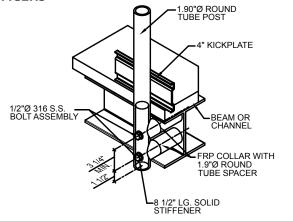
DRAWING A - POST TO FRP OR STEEL CHANNEL



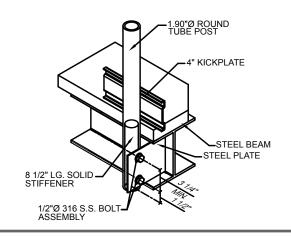
DRAWING B -POST TO STEEL PLATE ON STEEL BEAM



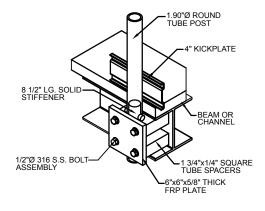
DRAWING C POST TO FRP OR STEEL BEAM OR CHANNEL WITH
FRP SPACERS



DRAWING D - POST TO STEEL ANGLE ON FRP OR STEEL BEAM



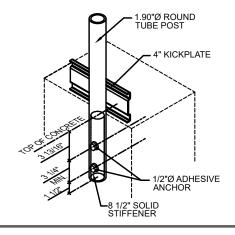
DRAWING E - REMOVABLE POST TO FRP OR STEEL BEAM



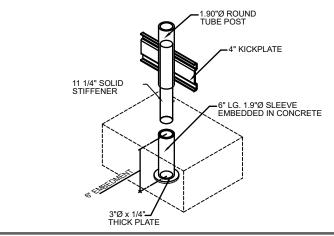
DynaRound™ Post Installation Methods

All details are for posts spaced 4' max on centers to meet a F.O.S. of 2.0 under OSHA and IBC loads, unless noted otherwise.

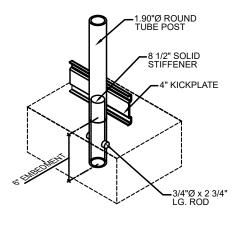
DRAWING F - SIDE MOUNT POST TO CONCRETE



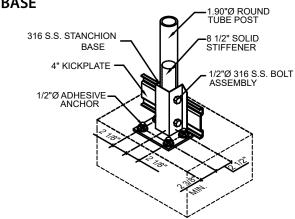
DRAWING G - REMOVABLE EMBEDDED POST IN CONCRETE



DRAWING H - FIXED EMBEDDED POST IN CONCRETE

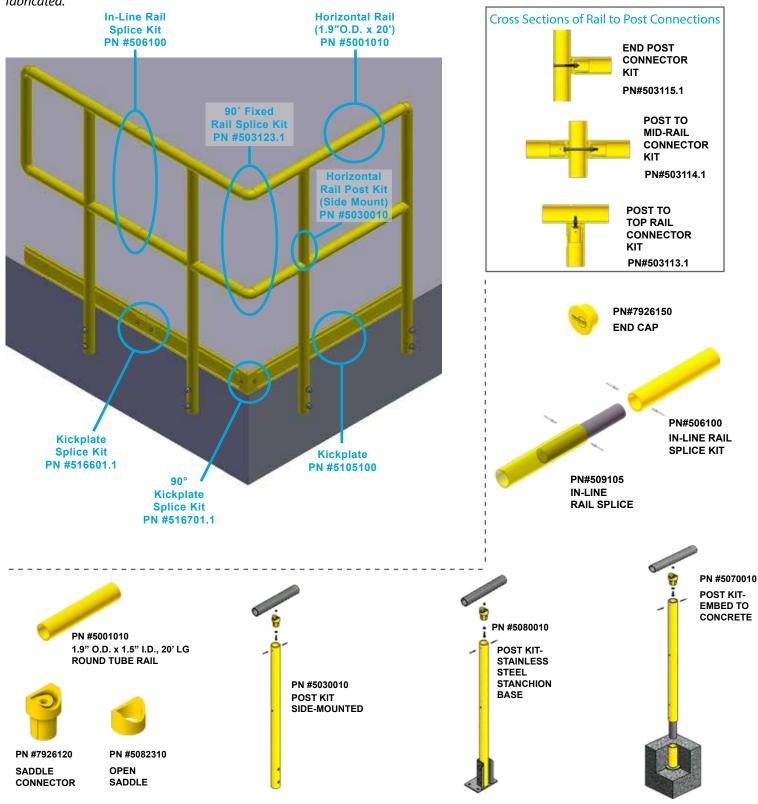


DRAWING I - TOP MOUNTED STAINLESS STEEL STANCHION BASE



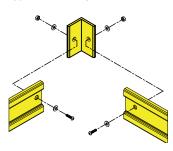
DynaRound™ Modular Guardrail System

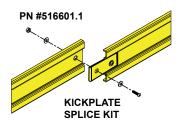
The DynaRound modular railing system is offered as UV coated for maximum weather resistance. Straight and adjustable rail splice kits are easy to incorporate, installed with riveted + bonded connections. Rail to post connections use saddle connectors with hidden bolts for the cleanest installation possible. Specially designed saddles and connectors minimize the number of miter cuts required to make a gap free installation easy. *Inclined guardrail assemblies need to be shop fabricated*.



PN #516701.1

90° KICKPLATE SPLICE KIT









SS HANDRAIL BRACKET TO POST KIT

PN#503116.1 1-1/2" FINGER CLEARANCE PN#503117.1 2-1/4" FINGER CLEARANCE

SPACER



TWO SELF TAPPING SCREWS (PN#756670) ARE REQUIRED TO ATTACH SS BRACKET TO HANDRAIL TUBE. ONE SPACER (PN#5083310 OR PN#5083320) AND ONE 3/8" x 4-1/2" DIA HEX HEAD BOLT ARE REQUIRED TO CONNECT BRACKET TO GUARDRAIL POST.

PART # DESCRIPTION NOTE: All part numbers listed are VEFR; those containing exposed material are UV coated items.				
		1 ea. Round Tube Horizontal Post		
		Saddle Connector		
5030010	Post Kit Side Mount	1/4" x 1-1/2" Bolt, 1/4" Washer		
		1 ea. #10 x 1" Hex Washer Head Self Tap Screw		
		1/4"-20 Rivnut 18-8 SS; 2 ea. Rivets 18-8 SS		
		1 ea. Round Tube Removable Horizontal Intermediate Post		
		Saddle Connector		
5070010	Post Kit Removable	1/4" x 1-1/2" Bolt		
	Embed to Concrete	1 ea. #10 x 1" Hex Washer Head Self Tap Screw		
		1/4"-20 Rivnut 18-8 SS; 2 ea. Rivets 18-8 SS		
	İ	1 ea. Round Tube Horizontal Intermediate Post		
		1 ea. Stanchion Base 316 SS		
		2 ea. 1/2" x 3" Bolts; 1/4" x 1-1/2" Bolt		
5080010	Post Kit (SS Base)	Saddle Connector		
		1 ea. #10 x 1" Hex Washer Head Self Tap Screw		
		1/4"-20 Rivnut 18-8 SS: 2 ea. Rivets 18-8 SS		
5105100*	Kickplate	9/16" Deep x 4" High x 1/8" Thick x 24' Long		
3103100	Nickplate	1 ea. Splice 1-3/4" x 4" x 3/16"		
516601.1*	Kickplate Splice Kit	·		
		2 ea. 1/4" x 1" x Socket Round Head Bolts, Nuts and Washers		
516701.1*	Kickplate Splice Kit 90°	1 ea. Splice 2-1/8" x 1-1/8" x 3/16"		
		2 ea. 1/4" x 1" x Socket Round Head Bolts, Nuts and Washers		
	End Post	Saddle Connector		
503115.1	Connector Kit	1 ea. 1/4" x 2-3/4" Flat Head Machine Screw, 1/4" Washer, 1/4" Lock-nut		
		2 ea. 1/8" Rivets		
	Post to Mid Rail	2 ea. Saddle Connectors		
503114.1	Connector Kit	1 ea. 1/4" x 3-1/2" Hex Head Bold, 2 ea. 1/4" Washer		
		1 ea. 1/4" Lock-nut; 4 ea. 1/8" Rivets		
	Post to Top Rail	Saddle Connector		
503113.1	Connector Kit	1 ea. 1/4" x 1" Hex Head Bolt, 1/4" Washer, 1/4" Rivnut		
		2 ea. 1/8" Rivets		
	Handrail Bracket to	1 ea. 1.9" O.D. Round Tube Spacer (1-1/2" Finger Clearance)		
503116.1	Post Kit	2 ea. #14 x 1" Self Tap Screw		
303110.1	(1-1/2" Finger Clearance)	SS Handrail Bracket		
	(: :/2 : :::ge: 0::ea::a::es,	1 ea. 3/8" x 4-1/2" Hex Head Bolt & 3/8" Lock-nut; 2 ea. 3/8" Washers		
	Llandrail Drastratta	1 ea. 1.9" O.D. Round Tube Spacer (2-1/4" Finger Clearance)		
503117.1	Handrail Bracket to Post Kit	2 ea. #14 x 1" Self Tap Screw		
303117.1	(2-1/4" Finger Clearance)	SS Handrail Bracket		
	(2-1/4 Tiliger Clearance)	1 ea. 3/8" x 4-1/2" Hex Head Bolt & 3/8" Lock-nut; 2 ea. 3/8" Washers		
E00E40	Adimetable Caline Kit	2 ea. Adjustable from 39° to 180° Rail Splices		
506510	Adjustable Splice Kit	8 ea. Rivets 18-8 SS		
500400.4	000 5: 10 1: 10:	2 ea. Fixed 90° Rail Splices		
503123.1	90° Fixed Splice Kit	8 ea. Rivets 18-8 SS		
		2 ea. Splice 1.9" O.D. Round Tube		
506100	In-Line Splice Kit	8 ea. Rivets 18-8 SS		
5001010	Rail	1.9." O.D. x 1.5" I.D. x 20' Long Yellow Round Tube		
792614	Adjustable Rail Splice	1 ea. Adjustable from 39° to 180°		
7926130	90° Rail Splice	1 ea. Fixed 90° Handrail Connector		
	<u> </u>			
509105	In-Line Rail Splice	In-Line Splice Round 10"		
7926150	End Cap	Round Guardrail End Cap		
794509	Handrail Bracket	316 SS Handrail Bracket for 1.9" O.D. Post		
5083310	Spacer (1-1/2" F.C.)	1 ea. 1.9" O.D. HR Bracket Spacer (1-1/2" Finger Clearance)		
5083320	Spacer (2-1/4" F.C.)	1 ea. 1.9" O.D. HR Bracket Spacer (2-1/4" Finger Clearance)		
7926120	Saddle Connector	Saddle Connector for Round Guardrail		
5082310	Open Saddle	Open Saddle for Round Guardrail		
792610 Riv. Nut Install Tool Rivet Nut Installation Tool				
*Kickplate Assembly PNs are the UV coated VEFR counterparts to the PNs used for the square tube system.				
Nonpiale		be ordered with each shipment of railing material.		
Order 1 kit (# 549100) for every 15 posts				
SI Conversions: inch = 25.4 mm 1 foot = 305 m 1 mm = 0394 inches 1 meter = 3.28 feet				

SI Conversions: inch = 25.4 mm 1 foot = .305 m 1 mm = .0394 inches 1 meter = 3.28 feet

Modular Dynarail® Handrail Systems

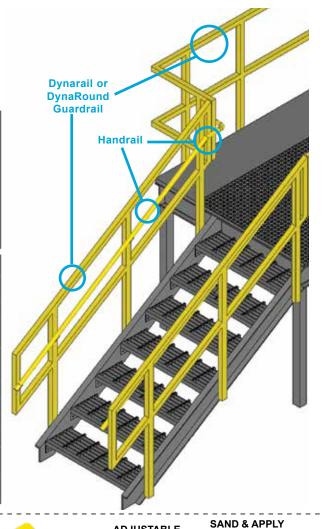
For those projects that require a handrail (or grab rail) system to meet code requirements, Fibergrate's Dynarail Handrail system can be used

with both Dynarail and DynaRound guardrail systems.
Please see below for details and part numbers. If you
require further assistance, call
us or visit our website.



	4	
PART#	DESCRIPTION	
162728	Rail used as Handrail 1-1/2" x 1/4" x 20' Long Yellow Round Tube	
792650	Fixed 90° Handrail Connector	
792640	Adjustable Handrail Connector 1 ea. Adjustable from 39° to 180°	
522090	Handrail Splice - 1" Ø FRP Round Rod	
792660	Handrail End Cap	
794510	SS Handrail Bracket (1-1/2" Finger Clearance)	
794511	SS Handrail Bracket (2-1/4" Finger Clearance)	
794515	SS Backer Plate	
756670	1 ea. #10 x 1" Hex Head Self Tap Screw	
Bonding material (1 Kit - PN#549100) should be ordered with		

each shipment of handrail material.







ADJUSTABLE HANDRAIL CONNECTOR PN#792640



FIXED HANDRAIL CONNECTOR PN#792650



ADJUSTABLE
HANDRAIL
CONNECTOR
PN#792640

1/8" RIVETS (2)
TYP ALL
CONNECTIONS

ROUND TUBE USED AS HANDRAIL

ROUND TUBE USED AS HANDRAIL



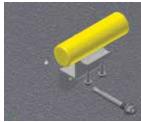




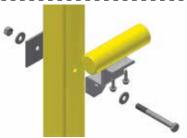
PN#794510 (FOR 1-1/2" FINGER CLEARANCE) PN#794511 (FOR 2-1/4" FINGER

PN#794511 (FOR 2-1/4" FINGER CLEARANCE) SELF TAPPING SCREWS

(PN#756670) ARE REQUIRED TO ATTACH SS BRACKET TO ROUND HANDRAIL TUBE For DynaRound - see pg. 11



FOR ATTACHMENT TO A
CONCRETE WALL:
PN#794510 AND PN#794511
REQUIRE 3/8" DIA.
CONCRETE ANCHOR



FOR ATTACHMENT TO AN FRP POST:
PN#794510 & PN#794511 REQUIRE 3/8" DIA. HEX
HEAD BOLT & SS BACKER PLATE (PN#794515)
ON OPPOSITE SIDE OF POST TO PREVENT
POST FROM BEING CRUSHED BY BOLT

Dynarail FRP Safety Ladders

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. The safety cage is ready for field assembly with predrilled hoops for fast and easy attachment to the ladder and vertical safety bars.

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 may be ordered with or without safety cage kits.

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.

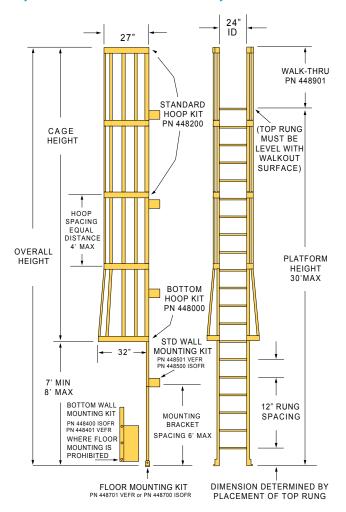
CAGE:

Product	Description	
	27" from center line of ladder rung to inside of hoop	
Standard Hoop Kit (PN 448200)	3" wide x 1/4" thick hand layup	
	Predrilled holes (with necessary bolt assemblies)	
Dettem Heen Kit	31" from center line of ladder rung to inside of hoop	
Bottom Hoop Kit (PN 448000)	3" wide x 1/4" thick hand layup	
(114440000)	Predrilled holes (with necessary bolt assemblies)	
Hoop Brackets	1/4" thick, "U" shaped hand layup	
(Included with hoop kits)	Predrilled holes (with necessary bolt assemblies)	
Vertical I-Bars (PN 446211 - 10 ft; PN 446210 - 20 ft)	I-Bar, 1-1/2" deep x 5/8" flange x 1/8" thick	
Bottom Wall Mount Bracket Kit*	2-3/16" x 8" x 3/8" angle, 18" long	
(PN 448400 ISOFR Dk Gray, PN 448401 VEFR Beige) Required when ladder cannot be floor mounted	Two per set (with necessary bolt assemblies)	
Troquina internación danner so neciminante	2-3/16" x 8" x 3/8" angle, 6" long	
Wall Mount Bracket Kit*	7" from wall to center of rung	
(PN 448500 ISOFR Dk Gray, PN 448501 VEFR Beige)	Two per set (with necessary bolt assemblies)	
Floor Mount Clip Kit*	4" x 4" x 3/8" angle, 2-3/4" long	
(PN 448700 ISOFR Dk Gray, PN 448701 VEFR Beige)	Two per set (with necessary bolt assemblies)	

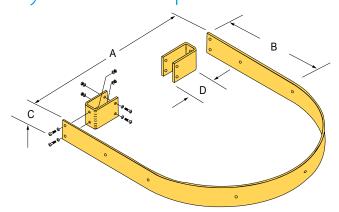
^{*}NOTE: Wall mount brackets and floor mount clips are predrilled with 9/16" diameter holes for 1/2" diameter anchor bolts only. Anchor bolts not included.

Dynarail® FRP Safety Ladders

Dynarail® Ladder System Data



Dynarail® Hoop Data



Hoop Kit	PART A NUMBER		В	С	D
Bottom	448000	35"	16"	3"	8.5"
Standard	448200	27"	16"	3"	4.5"

Component Selection Guide

Cage Assembly Components

	Hoops Required		Vertical I-Bars Required	
Cage Height	Hoop Kit	Bottom Hoop Kit PN 448000	10' Vertical I-Bar PN 446211	
3' 0"	1	1	3	0
3' 6" to 4' 0"	1	1	1	1
4' 7-1/2"	1	1	4	0
4' 7-1/2" to 5' 3"	2	1	4	0
5' 6"	2	1	4	0
6' 0" to 6' 6"	2	1	0	2
7' 0"	2	1	2	2
7' 6"	2	1	0	3
8' 0" to 8' 10-1/4"	2	1	7	0
8' 10-1/4" to 10' 0"	3	1	7	0
10' 6" to 13' 1"	3	1	0	5
13' 1"	4	1	0	5
13' 6" to 14'	4	1	3	4
14' 6" to 17' 3-3/4"	4	1	0	7
17' 3-3/4" to 20' 0"	5	1	0	7
20' 0"	5	1	0	7
20' 6" to 21' 7/12"	5	1	1	8
21' 7/12" to 22' 6"	6	1	1	8
23' 0" to 24' 0"	6	1	4	7
24' 6" to 25' 10-1/2"	6	1	1	10
25' 10-1/2" to 26' 6"	7	1	1	10

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

Ladder and Accessories

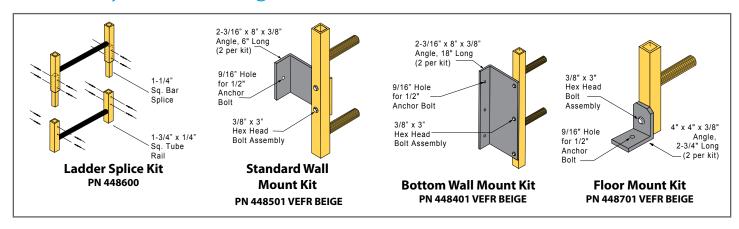
Length*	Part Number		
8'	444508		
10'	444510		
12'	444512		
14'	444514		
16'	444516		
18'	444518		
20'	444520		
24'	444524		
Accessories			
Description	Part Number		
Ladder Rail Splice Kit	448600		
24" Wide Walk-thru Kit	448901		

^{*}Field Cut to size

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

Dynarail® FRP Safety Ladders

Assembly & Mounting Details











Fibergrate Products & Services



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Combining corrosion resistance, long-life and low maintenance, Safe-T-Span® provides unidirectional strength for industrial and pedestrian pultruded grating applications.



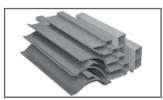
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