Fibergrate introduces the new DynaRound FRP guardrail solution, composed of 1.9” O.D. pultruded tubes. The DynaRound guardrail system is UV-coated and offers extreme durability and corrosion resistance, with the ability to withstand conditions where aluminum or metallic round rail systems won’t last. Popular applications include water/wastewater facilities, food processing plants, and other industrial manufacturing facilities, plus commercial and recreational facilities.

The DynaRound FRP round rail system 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 which provide 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, thus providing a smooth, clean look.

Fibergrate’s DynaRound guardrail system is 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 DynaRound comparable to that of steel. Combining lower installation costs with low maintenance and long life, DynaRound offers a life cycle cost that is significantly lower than that of its counterparts.

Fibergrate can also provide a customized round rail system. Our localized sales force, along with an in-house team of experienced engineers and drafters will work directly with the customers to ensure the right DynaRound system is specified for their application. Whether a small platform or a massive structure, with complex FRP railing mounting conditions and special connections, Fibergrate has the knowledge and experience to assist with every step of the design and fabrication process.

- NEW Round Guardrail System
- Comfortable Grip for End-Users
- Corrosion Resistant
- Lightweight
- Easy Installation
- Industrial, Commercial & Residential Use
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**

- 1.90"Ø ROUND TUBE POST
- 4" KICKPLATE
- 8 1/2" LG. SOLID STIFFENER
- 3"Ø x 6" x 3/4" THICK PLATE

**DRAWING B - POST TO STEEL PLATE ON STEEL BEAM**

- 1.90"Ø ROUND TUBE POST
- 4" KICKPLATE
- 8 1/2" LG. SOLID STIFFENER
- 1/2"Ø ADHESIVE ANCHOR

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

- 1.90"Ø ROUND TUBE POST
- 4" KICKPLATE
- 8 1/2" LG. SOLID STIFFENER
- 1/2"Ø 316 S.S. BOLT ASSEMBLY

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

- 1.90"Ø ROUND TUBE POST
- 4" KICKPLATE
- 8 1/2" LG. SOLID STIFFENER
- 1/2"Ø 316 S.S. BOLT ASSEMBLY

**DRAWING E - REMOVABLE POST TO FRP OR STEEL BEAM**

- 1.90"Ø ROUND TUBE POST
- 4" KICKPLATE
- 8 1/2" LG. SOLID STIFFENER
- 1/2"Ø ADHESIVE ANCHOR

**DRAWING F - SIDE MOUNT POST TO CONCRETE**

- 1.90"Ø ROUND TUBE POST
- 4" KICKPLATE
- 8 1/2" LG. SOLID STIFFENER
- 1/2"Ø 316 S.S. BOLT ASSEMBLY

**DRAWING G - REMOVABLE EMBEDDED POST IN CONCRETE**

- 1.90"Ø ROUND TUBE POST
- 4" KICKPLATE
- 11 1/4" LG. SOLID STIFFENER
- 6" LG. 1.9"Ø SLEEVE EMBEDDED IN CONCRETE

**DRAWING H - FIXED EMBEDDED POST IN CONCRETE**

- 1.90"Ø ROUND TUBE POST
- 8 1/2" LG. SOLID STIFFENER
- 4" KICKPLATE

**DRAWING I - TOP MOUNTED STAINLESS STEEL STANCHION BASE**

- 1.90"Ø ROUND TUBE POST
- 1/2"Ø ADHESIVE ANCHOR
- 1/2"Ø 316 S.S. BOLT ASSEMBLY

**DRAWING J - TOP MOUNTED FRP STANCHION BASE**

- 1.90"Ø ROUND TUBE POST
- 4" KICKPLATE
- 1/2"Ø ADHESIVE ANCHOR
- 4"Ø x 3/4" THICK FRP BASE PLATE
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. DynaRound modular posts are designed for conventional side-mounting, and kits are also available for installation of either top-mount stanchion bases or removable concrete-embedded bases. *Inclined guardrail assemblies need to be shop fabricated.*
### DynaRound™ Modular Guardrail System

**ASSEMBLY PART #**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Note: All part numbers containing exposed material are UV coated items.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kickplate</td>
<td>5105000*</td>
<td>9/16” Deep x 4” High x 1/8” Thick x 24” Long</td>
</tr>
<tr>
<td>Kickplate Splice Kit</td>
<td>5166000*</td>
<td>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</td>
</tr>
<tr>
<td>Kickplate Splice Kit 90°</td>
<td>5167000*</td>
<td>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</td>
</tr>
<tr>
<td>Post Kit Side Mount</td>
<td>5030010</td>
<td>1 ea. Round Tube Horizontal Post Saddle Connector 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</td>
</tr>
<tr>
<td>Post Kit Removable Embed to Concrete</td>
<td>5070010</td>
<td>1 ea. Round Tube Removable Horizontal Intermediate Post Saddle Connector 1/4” x 1-1/2” Bolt 1 ea. #10 x 1” Hex Washer Head Self Tap Screw 1/4”-20 Rivnut 18-8 SS 2 ea. Rivets 18-8 SS</td>
</tr>
<tr>
<td>Post Kit Top Mount w/ FRP Stanchion Base</td>
<td>5082010</td>
<td>1 ea. Round Tube Horizontal Intermediate Post Saddle Connector 1/4” x 1-1/2” Bolt 1 ea. #10 x 1” Hex Washer Head Self Tap Screw 1/4”-20 Rivnut 18-8 SS 2 ea. Rivets 18-8 SS</td>
</tr>
<tr>
<td>Post Kit (SS Base)</td>
<td>5080010</td>
<td>1 ea. Round Tube Horizontal Intermediate Post Saddle Connector 1/4” x 1-1/2” Bolt 1 ea. #10 x 1” Hex Washer Head Self Tap Screw 1/4”-20 Rivnut 18-8 SS 2 ea. Rivets 18-8 SS</td>
</tr>
<tr>
<td>Rail</td>
<td>5001010</td>
<td>1.9” O.D. x 1.5” I.D. x 20’ Long Yellow Round Tube 1 ea. Adjustable from 35° to 180°</td>
</tr>
<tr>
<td>Adjustable Rail Splice</td>
<td>792614</td>
<td>1 ea. Adjustable from 35° to 180°</td>
</tr>
<tr>
<td>90° Rail Splice</td>
<td>7926130</td>
<td>1 ea. Fixed 90° Handrail Connector</td>
</tr>
<tr>
<td>Round Guardrail End Cap</td>
<td>7926150</td>
<td></td>
</tr>
<tr>
<td>In-Line Rail Splice</td>
<td>509105</td>
<td>In-Line Splice Round 10”</td>
</tr>
<tr>
<td>Adjustable Splice Kit</td>
<td>506510</td>
<td>2 ea. Adjustable from 35° to 180° 8 ea. Rivets 18-8 SS</td>
</tr>
<tr>
<td>90° Fixed Splice Kit</td>
<td>506400</td>
<td>2 ea. Fixed 90° Rail Connector 8 ea. Rivets 18-8 SS</td>
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<tr>
<td>In-Line Splice Kit</td>
<td>506100</td>
<td>1 ea. Splice 1.9” O.D. Round Tube 4 ea. Rivets 18-8 SS</td>
</tr>
<tr>
<td>Handrail Bracket</td>
<td>794509</td>
<td>316 SS Handrail Bracket for 1.9” O.D. Post</td>
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<tr>
<td>Spacer</td>
<td>5083310</td>
<td>1 ea. 1.9” O.D. HR Bracket Spacer</td>
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<tr>
<td>Saddle Connector</td>
<td>7926120</td>
<td>Saddle Connector for Round Guardrail</td>
</tr>
<tr>
<td>Open Saddle</td>
<td>5082310</td>
<td>Open Saddle for Round Guardrail</td>
</tr>
</tbody>
</table>

*B*Kickplate Assembly Part Numbers are the UV coated counterparts to the part numbers used for the square tube system.

**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
- Foot = .305 m
- 1 mm = .0394 inches
- 1 meter = 3.28 feet

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

**Order 1 kit (#549100) for every 15 posts**

**SI Conversions:**
- Inch = 25.4 mm
- Foot = .305 m
- 1 mm = .0394 inches
- 1 meter = 3.28 feet