EZ Angle®, a fiberglass reinforced plastic (FRP) embedment angle from Fibergrate Composite Structures Inc. is corrosion resistant, rugged and lightweight. Manufactured from slate gray vinyl ester, fire-retardant resin, EZ Angle embedment angle is precision designed for solid seating of 25mm, 38mm, 51mm, 64mm and 76mm deep gratings.

Chemically resistant to the widest variety of corrosive atmospheres to which industrial gratings are exposed, EZ Angle provides a secure and durable seat for grating over concrete trenches and pits. Fibergrate’s patented design eliminates the pullout factor experienced with unribbed fiberglass embedment angle and anchor clips. EZ Angle also saves repeated costly replacement of steel frames in corrosive environments.

Another advantage of EZ Angle embedment angle is the relative ease of installation into concrete. Less work is required to vibrate the concrete around EZ Angle embedment ribs than with the more traditional anchored “Y” shaped embedment angle making it easier to cast into concrete. EZ Angle embedment angles do not have the problems with voids that the “Y” angles are prone to. Also, rebar interference is not a problem with the unique design of EZ Angle. Contractors familiar with both the traditional “Y” embed and EZ Angle insist on EZ Angle for future projects!

EZ Angle is stocked in 6.1m lengths for immediate shipment. Once in the field, the angle is easily cut to length with a circular or hack saw. (Remember to always seal all cut edges of FRP products.)

For applications where the traditional design is mandated, Fibergrate also offers a corrosion resistant traditional anchored “Y” shaped embedment angle.

25mm - PN 1617980  
38mm - PN 16179900  
51mm - PN 1618005  
64mm - PN 1618005  
76mm grating: PN# 1618005  
Install 76mm side vertical

51mm grating: PN# 1617900  
Install 51mm side vertical

38mm grating: PN# 1617900  
Install 38mm side vertical

25mm grating: PN# 1617910  
Install 25mm side vertical

64mm grating: PN# 1618005  
Install 64mm side vertical
EZ Angle® - Design Information

Noting the dimensional details on the diagram below, grating width should be cut according to this formula*:

GW = TW + (2 x BS) - 13  (13 reflects 6.5mm clearance space on each side)

Example: If trench is 381mm wide, grating should be cut 470mm wide when using 38mm grating (BS = 51mm see chart below)

GW = 381mm + (2 x 51mm) - 13mm  GW = 470mm

*This formula applies only to Fibergrate’s EZ Angle embedment angle

Common Grating Width Cuts

<table>
<thead>
<tr>
<th>Grating Depth</th>
<th>Trench Width (TW) - Millimeters</th>
<th>Grating Width (GW) - Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>25mm (38mm BS)</td>
<td>114 152 191 229 267 305 343 381 419 457 495 533 610 686 762</td>
<td>177 215 254 292 330 368 406 444 482 520 558 596 673 749 825</td>
</tr>
<tr>
<td>38mm (51mm BS)</td>
<td>203 241 280 318 356 394 432 470 508 546 584 622 699 775 851</td>
<td></td>
</tr>
<tr>
<td>51mm (38mm BS)</td>
<td>177 215 254 292 330 368 406 444 482 520 558 596 673 749 825</td>
<td></td>
</tr>
<tr>
<td>64mm (76mm BS)</td>
<td>253 291 330 368 406 444 482 520 558 596 673 672 749 825 901</td>
<td></td>
</tr>
<tr>
<td>76mm (64mm BS)</td>
<td>229 267 306 344 382 420 458 496 534 572 610 648 725 801 877</td>
<td></td>
</tr>
</tbody>
</table>

Installation of EZ Angle in a Concrete Trench

EZ Angle is designed to be an easy solution for trenches requiring grating. In five easy steps, you can have the perfect fit for your grating. (View animated installation instructions in our resource center at http://fibergrate.com/resource-center/videos/ez-angle-installation-video/)

**STEP 1:** Securely attach a wooden nailer to the trench form on the side where grating will fit into the EZ Angle.

**STEP 2:** Attach EZ Angle to the wooden nailer using small finish nails (predisdrill holes in EZ Angle to facilitate process) at two-to three-foot intervals. Make certain that the top of the vertical leg of the EZ Angle is flush with the top surface of the nailer.

**STEP 3:** Pour concrete as normal. Limited vibration is needed to obtain complete fillout around the EZ Angle ribs with the concrete.

**STEP 4:** Adequate curing time before removing the trench form is important to insure maximum strength of trench. Once the concrete has cured, remove the trench form and wooden nailer.

**STEP 5:** Clip or grind finishing nails flush to surface of EZ Angle and seal holes with a sealing kit.

By carefully following these easy steps, your trench will be ready for years of low maintenance service.