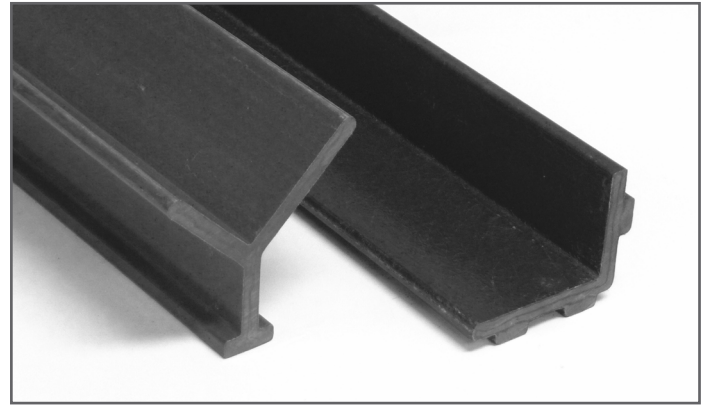
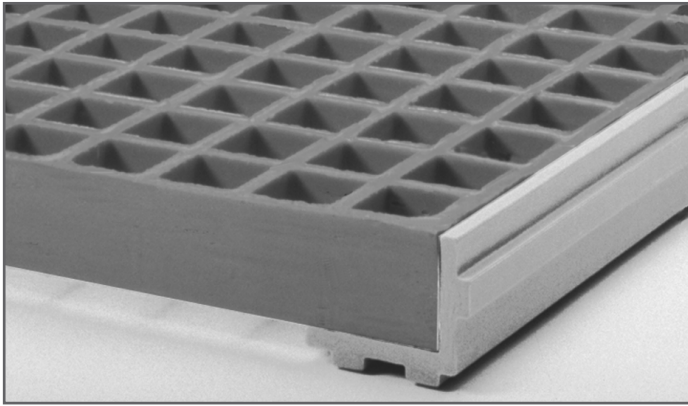


FRP Concrete Embedment Angle - Makes Corrosion-Prone Steel Embed Angle Frames for Grating Obsolete

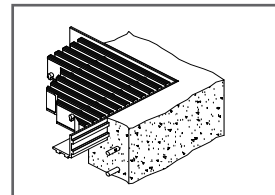


EZ Angle®, a fiberglass reinforced plastic (FRP) embedment angle from Fibergrate Composite Structures Inc. is corrosion resistant, rugged and lightweight. Manufactured from slate gray vinyl ester, fire-retardant resin, EZ Angle embedment angle is precision designed for solid seating of 25mm, 38mm, 51mm,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

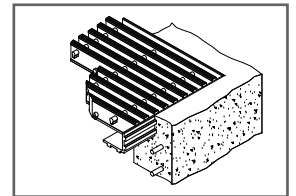
Chemically resistant to the widest variety of corrosive atmospheres to which industrial gratings are exposed, EZ Angle provides a secure and durable seat for grating over concrete trenches and pits. Fibergrate's patented design eliminates the pullout factor experienced with unribbed fiberglass embedment 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!

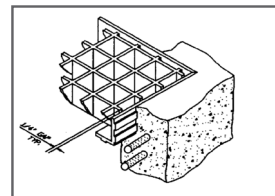
EZ Angle is stocked in 6.1m lengths for immediate shipment. Once in the field, the angle is easily cut to length with a circular or hack saw. (Remember to always seal all cut edges of FRP products.)



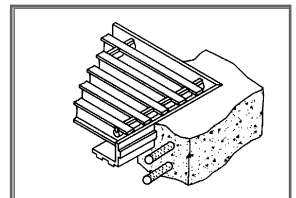
76mm grating: PN# 1618005
Install 76mm side vertical



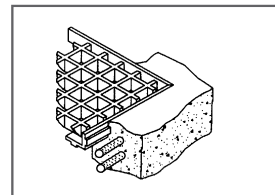
64mm grating: PN# 1618005
Install 64mm side vertical



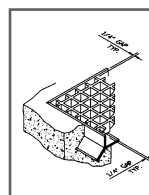
51mm grating: PN# 1617900
Install 51mm side vertical



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



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



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 1617990
51mm - PN 1618000

EZ Angle® - Design Information

LEGEND	
GW	Grating Width
TW	Trench Width
BS	Bearing Surface
CS	Clearance Space

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

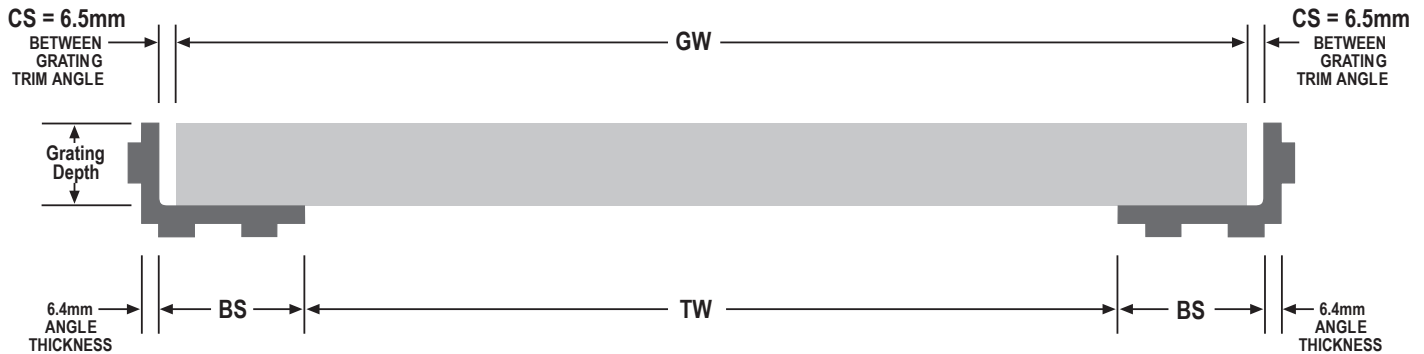
$$GW = TW + (2 \times BS) - 13$$

(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)

$$GW = 381\text{mm} + (2 \times 51\text{mm}) - 13\text{mm} \quad GW = 470\text{mm}$$

*This formula applies only to Fibergate's EZ Angle embedment angle



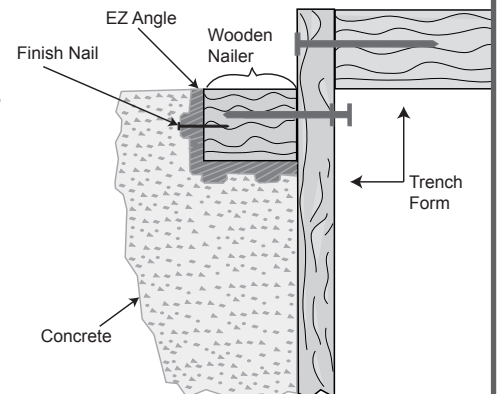
Common Grating Width Cuts

Grating Depth	Trench Width (TW) - Millimeters														
	114	152	191	229	267	305	343	381	419	457	495	533	610	686	762
	Grating Width (GW) - Millimeters														
25mm (38mm BS)	177	215	254	292	330	368	406	444	482	520	558	596	673	749	825
38mm (51mm BS)	203	241	280	318	356	394	432	470	508	546	584	622	699	775	851
51mm (38mm BS)	177	215	254	292	330	368	406	444	482	520	558	596	673	749	825
64mm (76mm BS)	253	291	330	368	406	444	482	520	558	596	634	672	749	825	901
76mm (64mm BS)	229	267	306	344	382	420	458	496	534	572	610	648	725	801	877

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://fibergate.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 (predrill 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.

Phone: 972-250-1633
Fax: 972-250-1530

www.fibergate.com

info@fibergate.com

Fibergate Composite Structures Inc. believes the information contained here to be true and accurate. Fibergate makes no warranty, expressed or implied based on this literature and assumes no responsibility for consequential or incidental damages in the use of these products and systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only.

©Fibergate Inc. 2019 Part No. 883104-Metric.PDF-11/19

