

**OUR MISSION**

**"AS LEADERS IN THE FRP INDUSTRY, WE ARE DEDICATED TO CUSTOMER SERVICE AND SUPPORT OF ALL MARKET SECTORS THROUGH CONTINUOUS ENGINEERING ADVANCEMENTS AND PRODUCT DEVELOPMENT. WE STRIVE TO PROMOTE AND MAINTAIN A SAFE, EFFICIENT AND COHESIVE WORK ENVIRONMENT THAT IS GOVERNED BY OUR CORE VALUES TO ENSURE THE BEST POSSIBLE OUTCOME FOR ALL."**

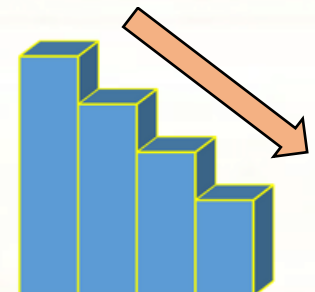
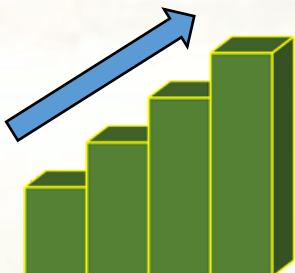


AIMS FRP (fiberglass) Retrofit Bridge Rail System is proprietary. It is the first MASH TL4 certified FRP retrofit bridge rail system. The rail is comprised of the FRP structural member, a 316L Stainless Steel internal tube structural member and EPU. The AIMS FRP Rail was developed by AIMS and is patent pending USPTO 15/829,674.

The FRP structural member is inclusive of a pultruded fiberglass-reinforced plastic (FRP) structural shape with a round main cavity a sacrificial rectangular outer cavity for energy absorption. The resin is Fire-retardant Isophthalic Polyester. The rail lengths are customized to order with posts spacings of 8' +/- (2.44 m).



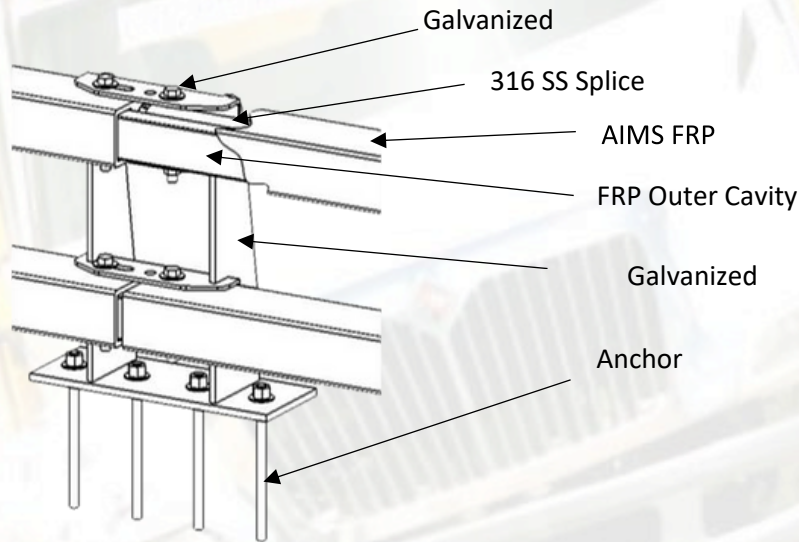
- MASH TL4 crash tested approved
- 100% electrically non-conductive
- 100% corrosion resistant material
- Color throughout product can be manufactured in any color.
- Does not spark when impacted by steel
- 3 x the lifespan of galvanized steel
- UV stable 316L or galvanized steel posts
- Better energy absorption performance over steel
- Weight of AIMS Rail System is over 2/3 lighter than complete steel
- UV Resistance ...Tested per ASTM G154
- Higher return on investment than steel



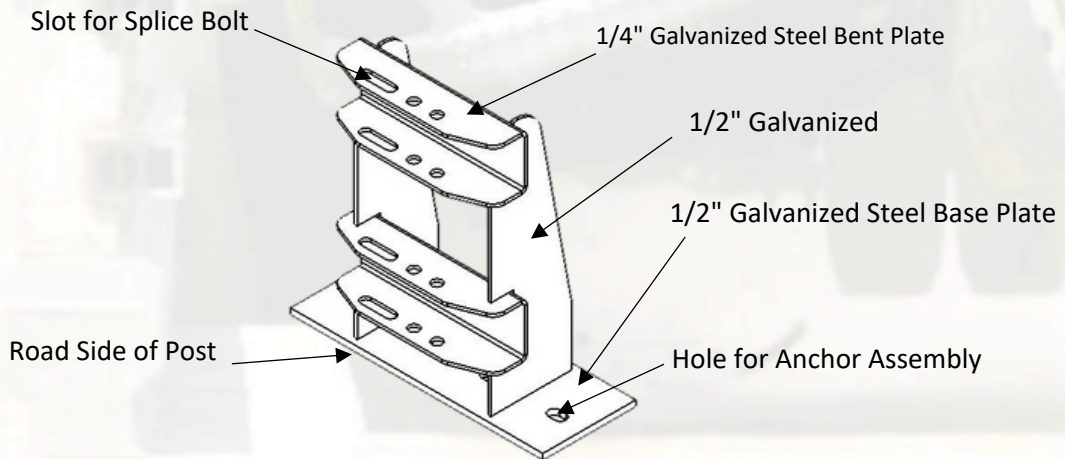
[aimscomposites.com](http://aimscomposites.com)

(281) 590-3240

# AIMS FRP Retrofit Bridge Rail System (Proprietary)



## 316L or Galvanized Steel



Property in Lengthwise Direction (LW)	Isophthalic Polyester	Test Method
Tensile Strength LW (psi)	33,000	ASTM D638
Tensile Modulus LW (10 <sup>6</sup> psi)	2.5	ASTM D638
Flexural Strength LW (psi)	33,000	ASTM D790
Flexural Modulus LW (10 <sup>6</sup> psi)	1.6	ASTM D790
Bearing Strength LW (psi)	30,000	ASTM D953
Bearing Strength Crosswise (psi)	18,000	ASTM D953
Modulus of Elasticity (10 <sup>6</sup> psi)	3.2	ASTM D638
Heat Distortion Temperature (°F)	160	ASTM D648
In-Plane Shear LW (psi)	7,000	ASTM D2344
In-Plane Shear Crosswise (psi)	4,500	ASTM D2344
Tunnel Test	25 Max	ASTM E-84
Flammability Extinguishing	Self - Extinguishing	ASTM D635

1. Typical Properties of Pultruded FRP Structural Shapes

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