

PRE-ENGINEERED FRP PEDESTRIAN BRIDGES

High Strength. Fast Installation. Lasting Beauty.





BUILT TO LAST



Bedford pre-engineered bridge systems use fiberglass-reinforced polymer (FRP). The lightweight materials reduce transportation and installation costs, while the high strength and resistance to the elements ensure the bridge will last for decades.

- Resistant to heat, high winds, rain, snow and saltwater
- Won't shrink, swell, warp, corrode or attract insects
- Meets the demands of load-carrying conditions
- Lightweight for easy transport to out-of-the-way sites
- Easy to assemble with standard tools
- Low maintenance for decades of continuous use
- Industry-leading warranty

APPLICATIONS

STATE PARKS | HIKING AND BIKING TRAILS | ATV AND EQUESTRIAN TRAILS | GOLF COURSES
NEW BRIDGE INSTALLATIONS | REPLACEMENT BRIDGE INSTALLATIONS

- 1** FRP Channel Top Cap with Painted Finish for Additional UV Protection
- 2** 3" x 12" Pressure-Treated Southern Yellow Pine Decking (ADA-Compliant HD Fiberglass Decking Available)
- 3** FRP Diagonal and Vertical Web Members
- 4** FRP Square Tubing Outrigger Supports
- 5** FRP Channel Crosspieces (x2)
- 6** Galvanized or Stainless Steel Foundation Anchor Clips
- 7** Straight- or Sloped-End Designs*
- 8** Minimum 54" Above Walking Surface
- 9** Safety Mid-Rails with Code-Compliant Spacing
- 10** A307 Hot-Dipped Galvanized Steel Hardware Kit (Stainless Steel Hardware Available)
- 11** Standard Colors: Olive Green or Brown
- 12** Upper and Lower Chord

*Truss bridge with straight end shown. See page 5 for sloped-end example.





REAL-WORLD TESTED

With Bedford FRP bridges, engineers don't have to rely on theoretical data. Bedford contracted West Virginia University to conduct the first-ever real-world test of a 100' x 10' bridge suitable for a single emergency H5 vehicle, so you can be sure your bridge is backed by full-scale test data.

LONG-LASTING VALUE

The reliability of Bedford FRP bridges for H5 single emergency vehicle loading is just the beginning.

VERSATILITY

Whether you need to span a river in a park or a street in a city, you'll get a bridge that blends in perfectly. The easy transport of the lightweight materials ensures that no location is too remote. Single spans up to 100' are available. With additional supports, units can be combined for longer lengths.



PRODeck H5 FRP decking is pultruded and engineered to carry H5 loads. With a gritted anti-skid surface and resistance to rot, rust and corrosion, it's built for industrial walkways and high-load traffic bridges.



WIDE-FLANGE BEAM BRIDGE WITH RAILINGS



WIDE-FLANGE BEAM BRIDGE WITH CURBING



TRUSS BRIDGE WITH STRAIGHT END



TRUSS BRIDGE WITH SLOPED END

AESTHETIC FLEXIBILITY



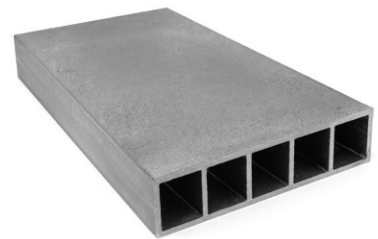
PRESSURE-TREATED SOUTHERN YELLOW PINE

Bedford's standard decking is pressure-treated southern yellow pine. It's cost-effective and well-suited for pedestrian, equestrian, light vehicle and high-load traffic bridges in most environments.



PRODECK LV LIGHT-DUTY FRP DECKING

PRODeck LV light-duty FRP decking provides the added durability of FRP without adding extra weight. It's ideal for environments where slip resistance and low maintenance are priorities.



PRODECK H5 HEAVY-DUTY FRP DECKING

PRODeck H5 heavy-duty FRP decking provides unmatched strength for high-load traffic bridges that must endure demanding conditions for decades with minimal maintenance.



DURABLE BEAUTY

Steel rusts and corrodes. At best, a steel bridge will need maintenance often to deal with the corrosion. At worst, it will fail. A Bedford FRP bridge takes those worries away because FRP doesn't rot, rust, corrode or warp. It resists damage from saltwater and chemicals. It stands strong against harsh weather. Plus, there's no fading and the colors are integrated throughout the materials, so your maintenance-free Bedford FRP bridge will look and perform as great years later as it does on day one.



With a choice of brown or green structural materials and a variety of decking options, you can customize your bridge for your needs and setting.



QUICK SHIP AND EASY INSTALLATION

Bedford keeps a large inventory of materials on hand, and any fabrication can be handled swiftly. From ordering through installation, the timeframe for an FRP bridge is much shorter than a steel bridge. The lighter materials also help you save on shipping costs and can be easily transported to your site.

Installation can be handled with ordinary tools — no hot permits or welding labor needed. In addition, our shipping options can save time and money:



Shipped in kits for complete assembly in the field



Shipped partially assembled for faster field installation



Shipped fully assembled and placed into position



The experienced Bedford team can work with your bridge design or provide you with any needed engineering or design services.

Request a quote: bedfordreinforced.com or **814-623-8125**

PEDESTRIAN BRIDGES

TYPICAL DIMENSIONS

Span/Length: 10' to 90'

Interior Bridge Width: 3' to 6'

DESIGN LOAD RATING

60–85 PSF Uniform Live Load

EQUESTRIAN, LIGHT VEHICLE (ATV, UTV, GOLF CART) OR SINGLE H5 EMERGENCY VEHICLE BRIDGES

TYPICAL DIMENSIONS

Span/Length: 10' to 100'

Interior Bridge Width: 7' to 10'

DESIGN LOAD RATING

60 PSF Uniform Live Load

Single 10,000 lbs. H-5 Emergency Vehicle Load



BEDFORD REINFORCED PLASTICS: ONE CORPORATE DRIVE, SUITE 106, BEDFORD, PA 15522 USA

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