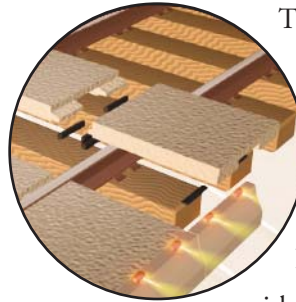


Improve Safety and Reduce Maintenance



The BODAN[®] highway-rail grade crossing system consists of precast polymer concrete panels that are reinforced with internal rebar cages. These modular panels transfer heavy traffic loads directly to the rails.

Panels are held in place using rubber sleeves, with no permanent attachment to the crossties.

This unique “bridge” concept eliminates direct loading on the ties, while maintaining a constant level with the rail throughout the life of the crossing.

The BODAN[®] system has low cost maintenance. Removing the panels takes moments, rather than hours, so it may not be necessary to shut down an entire crossing to perform routine track maintenance.

High-strength polymer concrete material enables BODAN[®] panels to resist the effects of wear, weather, salt and diesel fuel. The exposed aggregate surface provides a highly skid-resistant surface even under wet conditions.

BODAN[®] is the only grade crossing system offering optional built-in flashing warning lights. This is an important safety feature considering the many vehicles involved in dangerous crossing incidents every year.

BODAN[®] is available in various sizes to accommodate installation on any rail crossing. Existing designs include: single or double track, curved track, as well as turnouts and switches that require a heavy-duty crossing surface to handle excessive traffic loads. This system has been tested with axle loads in excess of 44,000 lbs, making it one of the most durable crossings in the world today.



A unique feature for the BODAN[®] grade crossing surface system is the LED flashing warning light option. These lights are not intended to be a replacement for gates or signals at active grade crossings, but rather, are a supplemental warning system activated by the same alert system as gates and signals. The LED fixture is placed in the edge beam of the crossing system, the part that serves as the paving stop for the highway.

Features and Advantages

- Durable, High-Strength Polymer Concrete
- No Attachment to Crossties
- Easy to Install Modular Components
- High Impact and Compressive Strength
- Chemical and Corrosion Resistant
- High Load-Bearing Capacity
- Skid Resistant Surface
- Low Maintenance
- Class "A" Fire Rated



Physical Properties*

Property	Unit of Measure	Test
Mechanical		
Compressive Strength	14,000 psi (96 MPa)	ASTM C-109
Flexural Strength	3,200 psi (22 MPa)	ASTM C-384
Impact Strength	100 ft. lbs.min.	ASTM D-2444
Physical		
Freeze/Thaw Resistance	No Change	ASTM C666

* To be used as general guidelines only