



BELGARD
PAVES THE WAY™

Oldcastle APG

The Belgard brand is owned by Oldcastle APG, a CRH Company, and is dedicated to the health, safety, and welfare of its employees, families, and the general public. With that in mind, and closely following all protocols set forth by local, state, and federal governments, we are here to support you! Across the country our local teams are utilizing a variety of video technologies and tele conferencing to stay connected and responsive to our customers' needs.

Stay Connected!

It's easy to connect with your local Oldcastle APG sales or specification representative because Oldcastle has the largest staff of commercial and residential retaining wall and paver system experts in the United States. In addition to the local teams, you can connect with the Oldcastle APG National Team for any technical hardscape question.

Oldcastle Local Contact

Technical Bulletin

Engineering | Bridge Solutions | Infrastructure

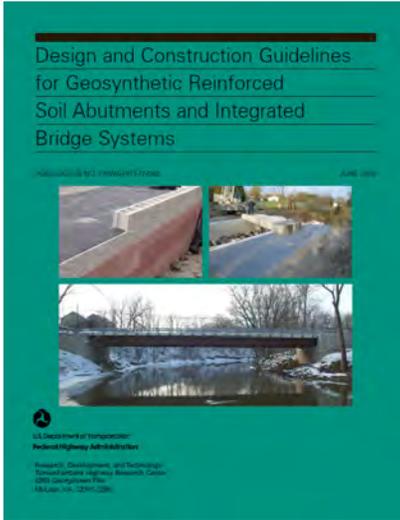
Rhode Island Saves Taxpayers with New Bridge Technology

Using technology recently developed by the Federal Highway Administration, the Rhode Island Department of Transportation specified its first Geosynthetic Reinforced Soil-Integrated Bridge System (GRS-IBS) in 2014. Since the completion of the East Shore Expressway bridge #475 project in 2016, Rhode Island has successfully constructed seven additional GRS-IBS projects providing financial savings to taxpayers of 25-60% versus conventional bridge construction. Rhode Island has five more GRS-IBS projects in the planning phase as of May 2020. [Watch the Video - 80 Hour Replacement of East Shore Expressway Bridge.](#)



Geosynthetic Reinforced Soil (GRS) consists of free-draining, high-quality granular backfill combined with closely spaced layers of medium to high strength geogrids or geotextiles. The main factor that makes these types of construction so attractive to states, counties, and municipalities is the reduction in construction time and overall costs. These types of bridges are used as road overpasses and over waterways with spans up to 140 feet.

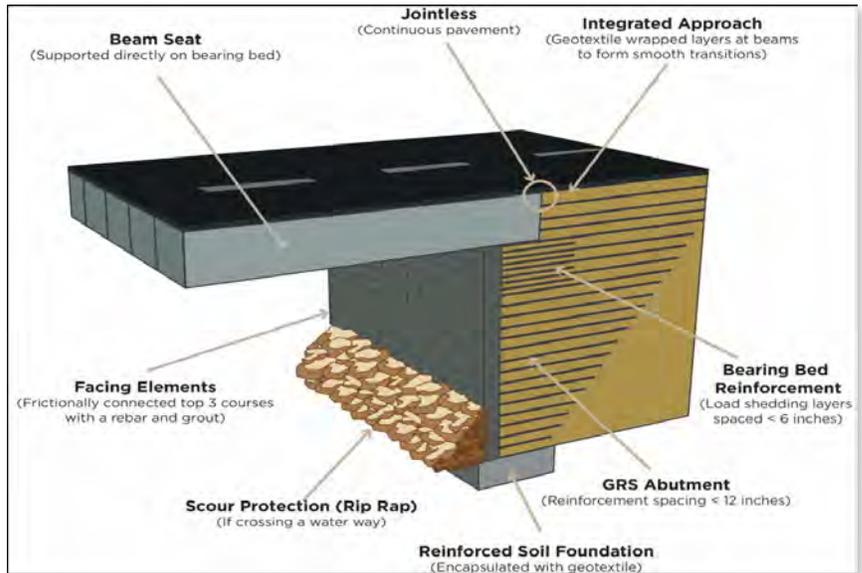
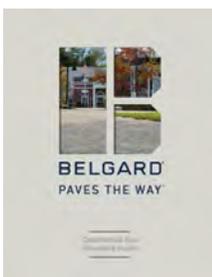
GRS-IBS Isometric Cross Section



Design Resources

The first “**Design and Construction Guidelines for Geosynthetic Reinforced Soil Abutment and Integrated Bridge Systems**” was published in January of 2011. This program was part of FHWA’s “Every Day Counts” initiative. In June of 2018 the FHWA published an updated version of the guideline which is available on their website. Included in this document are detailed guidelines for designing and specifying a GRS-IBS. Since 2011, this innovative design and construction technology has been used for hundreds of bridges across the country. [Link to FHWA’s GRS-IBS Webpage.](#)

Download [Belgard’s Site Solutions Guide](#):



Partner with Anchor Wall Engineering, LLC

Anchor Wall Engineering, LLC (AWE) is a wholly-owned subsidiary of Oldcastle APG. Over the past twenty five years, AWE has designed over 400 million square feet of segmental wall. The firm has designed, or provided design assistance in over twenty GRS-IBS projects in the past 7 years, mainly in the Southeast and Northeast. Request a GRS-IBS presentation from your local Belgard Representative.

