



## RIVIERA BEACH MARINA VILLAGE

Belgard®'s Permeable Paver System Provides A Winning Combination Of Function & Upscale Aesthetics

### LOCATION:

Riviera Beach, Florida

### PRODUCTS:

Holland Stone and Eco-Holland®

### INSTALLED AREA:

130,000 sq. ft.

### PROJECT DESIGNERS:

Calvin, Giordano & Associates  
Engineers, EDSA Landscape  
Architects



### Background

Construction of the Riviera Beach Marina Village was a partnership between the City Redevelopment Association (CRA) and the City of Riviera Beach, Florida. This waterfront redevelopment began with the demolition of both an existing 200-boat storage facility, a community recreation hall, and an adjoining restaurant. The demolished facilities were replaced with a new 40,000-square-foot

event center featuring several banquet halls and a two-story restaurant. A new outdoor amphitheater was constructed with an interactive water feature. Three additional parcels were available for future building.

### The Challenge

The challenge facing the landscape architecture firm was in designing

the patterns, shapes and colors of the permeable pavers in order to provide the CRA the aesthetics they were looking for to compliment the new building's Key West architecture style.

### The Solution

The engineering firm of Calvin Giordano was tasked with developing a design that would

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meet South Florida Water Management Districts permitting requirements covering current and future water quality and quantity standards. The firm understood that upcoming development on this site would create the need for additional parking and more impervious surfaces. Belgard® Commercial was able to work with the engineer to design a permeable system that would achieve the desired results required for permitting from the District. The system was comprised of 18" washed #4 limerock, 5" of #57 limerock, 2" of #89 and the wearing course was a 3 1/8" Eco-Holland pavers.

**The Result**

The installation by Precise Paving took place over several months. The 18'-wide lower promenade along the marina bulkhead was

installed by hand and consisted of 25,000 square feet of 4"x 8"x 3 1/8" Holland Stone interlocking concrete pavers. The upper promenade was installed as a permeable system using 75,000 square feet of 4"x 8"x 3 1/8" Eco-Holland permeable pavers that was also installed by hand due to the number of planter boxes and patterns involved, which would have made machine installation difficult. The 30,000-square foot perimeter road that encircles the new building was also installed as a permeable system and used the same paver as the upper promenade. This area was mechanically installed by Precise Paving allowing the contractor to meet his deadlines and open the new facility on time. The entire project was successful due to a coordinated effort between the design team, general contractor, CRA, Belgard Commercial team, site contractor and installation contractor.

**About Belgard Commercial®**

Belgard Commercial, part of Oldcastle® APG, offers a complete collection of paver and wall products for plazas, terraces, parking areas, roadways, rooftops and retaining walls. Available in a range of styles, premium Belgard Commercial products have been found in the nation's finest developments and award-winning commercial and retail properties since 1995.

Oldcastle APG is part of CRH's Building Products division. As the largest building materials company in North America, CRH provides a single-source solution for commercial construction projects with a full portfolio that also includes structural masonry, masonry veneers, dry mix products, hardscape jointing sands and sealants, stormwater management systems, concrete infrastructure, architectural glass, lawn & garden products, and composite decking.

