



PROJECT PROFILE

DB-71

Client

United States Coast Guard Facilities Design & Construction Center (FDCC)
Norfolk, Virginia

Objective

Design and build a support building for the homeporting of new Fast Response Cutters (FRC) at a USCG Base Support Unit located on a man-made island. Facility needed to be designed to obtain LEED® green building program certification.

Performance Results

Facility was designed to achieve a minimum of a LEED Silver® level certification and achieved a LEED Gold® level certification.

Perspective

The US Coast Guard needed to upsize and upgrade their cutters to be able to patrol in deeper water, further from the coast, for both a higher level of security as well as drug interdiction. BlueScope Construction (BSC) was awarded the Task Order for the design-build project under a special Homeland Security National Multiple Award Construction Contract (NMACC).

The extremely limited building site on Terminal Island presented special challenges. BSC had to demolish the existing structure, construct the new facility, partly rehab an existing building, connect new water, sewer, fire protection, power and telecommunications services to new building, add new parking and other sitework, all without interfering with operations on a very small and crowded active Coast Guard base. Shipments came via a two-lane road with limited storage on site. A construction crane had to be delivered by barge.

In addition, because this a Homeland Security operation, personnel had to be specially vetted, carry proper ID at all times and could not stray from specific areas on base. Because the facility is within yards of the ocean, warnings of winds of gale force or stronger caused BlueScope Construction to take every practicable



precaution to minimize danger to person, the work, and to adjacent property. Precautions included closing all openings, removing all loose materials, tools and equipment from exposed locations, and removing or securing scaffolding and other temporary work.

BSC met all expectations and delivered a quality facility that exceeded the minimum LEED requirements.

Location US Coast Guard FRC Support Facility
Miami Beach, Florida

End Use Cutter support shops and offices

Size 11,050 square feet

Green Roofing materials with a solar reflectance higher than 78, efficient plumbing features reduced water usage by approximately 30%, natural daylighting, lighting occupancy sensors, cool glass, solar panels, no CRC or CHFC refrigerants, construction waste management, materials with recycled content, special thermostatic zones for optimization of energy use, and use of natural convection ventilation.

Structure Conventional
Walls: Pre-cast concrete panels
Roof: Built-up 3 ply Modified Bituminous membrane
Insulation: Roof R-30; Walls R-19

Architect Warner Nease Bost Architects, Kansas City, Missouri (design-build architect under BSC)

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