



Photo courtesy of Marcus Organization / Bilow Garrett Architects & Planners

Deer Park Storage on Long Island, NY. This is the first LEED certified self-storage facility in the United States.



Deer Park Storage on Long Island, NY – under construction.

2012 CFSEI EXPO

Awards Program – Design Excellence

Structuneering, Inc. was given two Award of Merit for Design Excellence at this year's 2012 Cold-Formed Steel Engineers Institute (CFSEI) EXPO held in Orlando, FL. The awards in Design Excellence were given for projects that demonstrated outstanding structural design of new or renovated structures utilizing cold-formed steel products.

The first project awarded was the Deer Park Storage, a self-storage facility located on Long Island, New York. The four-story tall building provided 578 storage units in a temperate-controlled facility. There was also a business center on site.

The self-storage facility utilized cold-formed steel in conjunction with environmentally-conscious materials/design to be one of the first self-storage facilities to receive the LEED (Leadership in Energy and Environmental Design) Certified Silver Rating by the U.S. Green Building Council.

Each floor of this building was constructed primarily of load-bearing cold-formed steel walls. The building itself was designed to withstand 115 mph winds in a seismic design category C. The roof panels are 24 mil cold-formed steel standing seam panels supported by 60 mil cold-formed steel zee purlins.

Structuneering provided the structural engineering design calculations for both the cold-formed steel and the structural steel framing.

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The second project awarded the Design of Excellence was a roof retrofit at MacDill Air Force Base in Tampa, FL. The decision to use the cold-formed steel roof as part of the renovation of this mixed-used facility was an economical one as the roof panels provided structural integrity while requiring little to no maintenance costs.

The roof panels are 24 mil cold-formed standing-seam metal panels, tested for UL-1897 and ASTM E-1592 wind uplift and UL fire resistance. In addition, the roof panels are supported by 30 mil cold-formed steel metal deck, further supported by 60 mil cold-formed steel rafters. The new retrofit roof was designed to resist 130 mph winds.

Structuneering provided the structural engineering design of the cold-formed steel retrofit system.



MacDill AFB Building 53 Roof Retrofit project, Tampa, FL.



MacDill AFB Building 53 Roof Retrofit – under construction.