

Project Type: Child Care Facility
LEED Rating System: New Construction
Certification Level: Silver

All active duty, retired, reservists, and DOD civilian employees are able to use the U.S. Naval Academy Child Development Center facility for child care. It offers developmental programs for children 6 weeks old to 5 years of age. A green cleaning policy was implemented in the Child Development Center to protect the most vulnerable building occupants from hazardous cleaning chemicals.



Being located on a campus, the Naval Academy wanted to encourage alternative forms of transportation; therefore, bike racks are located in front of the building and designated spaces are allocated for low-emitting and fuel efficient vehicles. Water efficient technologies; such as low flow water fixtures for the toilets, urinals, and lavatories; are utilized for a 24% decrease of interior potable water. Additionally, all native and adaptive vegetation is installed to eliminate the need for irrigation. A high-efficiency HVAC system is incorporated, achieving a 30.8% reduction in energy cost from the ASHREA 90.1-2004 baseline standard. During the construction phase 87% of waste was diverted from the landfill, 20.39% of the materials installed during the construction process contain recycled content, and 71.8% of the wood is FSC certified. To increase occupant comfort, indoor air quality is designed to meet ASHREA 62.1-2004, all low-emitting materials (i.e. sealant, paints, carpeting, etc.) were utilized during the construction process, and the lighting is designed for maximum controllability. Additionally, over 96% of regularly occupied spaces have views to the exterior.

Major Sustainability Highlights

-  24.1% Water reduction
-  30.8% energy savings
-  80% of construction waste was diverted

Additional Sustainable Highlights:

- 71.8% Certified Wood
- 22% Regional Materials

Project Team:

- Owner: U.S. Naval Academy
- MEP: Fidelity Engineering
- Civil: Vika, Inc
- Architect: Grimm + Parker Architects
- General Contractor: HASCON
- LEED Consultant: Lorax Partnerships, LLC

LEED Facts	
Certification awarded: July 10, 2012	
Certified	36 *
Sustainable Sites	5/14
Water Efficiency	3/5
Energy & Atmosphere	8/17
Materials & Resources	7/13
Indoor Environmental Quality	11/15
Innovation	5/5
<i>*out of a possible 69 points</i>	