

Honorable Mention

AIA/COTE TOP TEN GREEN PROJECTS 2007

Provincetown Art Association and Museum

Location: Provincetown, MA Architect: Machado and Silvetti Associates

Overview

The renovation and expansion of the Provincetown Art Association and Museum (PAAM), originally acquired in 1918, sought to shape an architectural identity for the institution and to improve the museum's ability to store and display art.

The first phase involved the renovation of three galleries, the expansion of office spaces, and the creation of a library, while the expansion created new galleries, new storage areas, and an expanded museum school. All of the building's mechanical, electrical, and plumbing systems were replaced, and the project was brought in line with current codes.

SUSTAINABILITY SNAPSHOT

- Percent of total building area that is daylight: **79**
- Percent of building that can be ventilated or cooled with operable windows: **37**
- Precipitation managed on site: **100**
- EPA Energy Reduction:
- Percent total energy savings: **53**
- Lighting Load after Controls (W/sf): **0.59**

Jury Comments:

"This project takes a material approach to the next level. We'd like to see this expression in different regions. How do you bring materials up to date by developing new uses for traditional materials? As we evaluate our relationship to climate, culture, and terrain, we're going to have to consider the givens of those regions and inventing within them." – **Susan Szenasy / Metropolis / New York, NY**

"This shows very creative use of natural ventilation in a museum, as well as careful and thoughtful use of daylight." – **John Quale, Assistant Professor / University of Virginia School of Architecture / Charlottesville, VA**

"This doesn't scream green. It's very elegant." – **David Brems, FAIA / Gillies Stransky Brems Smith / Salt Lake City, UT**

"This is beautiful, quiet, understated. It has a urban component. It is integrated into the larger context elegantly." – **Anne Schopf, FAIA / Mahlum Architects / Seattle, WA**





Sustainable Design Intent & Innovation

PAAM's mission is to help sustain and nurture an artistic culture in the beautiful yet fragile ecology of Cape Cod through exhibitions, classes, public lectures, and social events. When PAAM decided to renovate and expand its existing building, the organization looked to make it green as well. This not only dovetailed with PAAM's social mission but also supported its economic future.

Located in downtown Provincetown, PAAM includes only eight parking spaces, all reserved for employees. A bike rack and shower encourage staff to bike to work. The parking lot is paved with porous materials, and rooftop rainwater is directed to a recharge basin, eliminating stormwater runoff from the site. The landscaping, which showcases a rare American elm and other native species, requires no artificial irrigation. Low-flow toilets, waterless urinals, and automatic faucets limit potable water use indoors.

The building uses energy efficiently thanks to strategies including high levels of insulation, efficient furnaces, energy-recovery ventilation, extensive daylighting, and a small photovoltaic array.

Interior materials were chosen for their beauty, durability, and low levels of harmful chemicals. Much of the original building was retained, reducing waste as well as the need for new materials. More than 80% of construction waste, by weight, was recycled.

Primary Design Team Members

Machado and Silveti
Associates

Provincetown Art
Association and Museum

Daedalus Projects, Inc.
Acella Construction Corp

Paul J. Rogan Co., Inc.

Michael Boucher Landscape
Architecture

Demand Management
Institute, Inc.

Peter Coxe Associates
Richmond So Engineers, Inc.

The Collaborative Engineers,
Inc.

Bennett & O'Reilly, Inc.

Solar Design Associates

Collective Wisdom Corp.

Arrowstreet, Inc.

Full project profile:

www.aiatopen.org/hpb/overview.cfm?ProjectID=751

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