

CASE STUDY

Celotex[®] BRAND

CLASSIC MINERAL CEILING SYSTEMS

Capaul[®] BRAND

HIGH PERFORMANCE CEILING & WALL SYSTEMS

ACOUSTICAL CEILINGS FROM BPB

Cashmere[®]

Symphony[®] f



Although it was built prior to the development of LEED guidelines, the headquarters of the National Wildlife Federation employs a number of unique environmentally sustainable features including natural vegetation, extensive daylighting and the use of solar cells.

THE NATIONAL WILDLIFE FEDERATION HEADQUARTERS

Project: National Wildlife Federation Headquarters
Location: Reston, VA
Architects: HOK Sustainable Design Washington, DC
Construction: Virginia American Construction, Gaithersburg, MD

Top 10 Green Buildings Award

Natural sunlight bathes the interior of the National Wildlife Federation headquarters in Reston, VA, and reflects the federation's mission to inform the public about wildlife and to promote conservation. Numerous day-lighting strategies, developed during the project's design phase, are enhanced by the use of acoustical ceiling systems from BPB, a leading supplier of wall and ceiling products.

"The goal of the facility was to follow a 'common sense and common ground' approach to conservation — to create an inspiring, healthy workplace with modern communication tools, daily contact with wildlife and their habitats, and to foster ongoing learning and advance educational outreach," said Lead Designer Bill Hellmuth, with HOK Sustainable Design.

HOK provided programming, site planning, architecture, interior design and landscape design services. The high-performance building was honored with the 2002 AIA "Top 10 Green Buildings" Award.

A narrow rectangle shape for the 95,000 sq. ft. office building was selected to ensure that interior workspaces, classrooms and the dining area are less than 25 feet from a window. Energy efficient lighting and high ceilings with highly light reflective ceiling panels were also integral components to the overall day-lighting strategy.

HOK architects specified ceiling panels from BPB's Celotex[®] Brand and Capaul[®] Brand product lines, which have an 84-year track record of producing high quality acoustical ceiling panels.

"They have a nice reflectivity, but at the same time they don't have that glare to them," said Steve Johnsen, who works at the headquarters as director of office services for the Wildlife Federation.

The Celotex Brand Cashmere[®] ceiling panels have a high Light Reflectance (LR) of .82 and high Noise Reduction Coefficient (NRC) of .60. To capitalize on the panel's sustainability features, the Cashmere[®] panels were placed in the office space to maximize



Internationally renowned architects HOK specified ceiling components from BPB's Celotex[®] and Capaul[®] Brands because of their high light reflectance and noise reduction benefits.



BPB ceiling systems were a perfect match for this "green" complex because of their high percentage of recycled content, high light reflectance and innovative used-tile recycling program.



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THE NATIONAL WILDLIFE FEDERATION HEADQUARTERS *continued*



Celotex[®] Brand Cashmere[®] ceiling panels were selected in the large Café to complement energy saving daylighting designs, which also includes the use of high ceilings and tall windows.

their light reflectance benefits and in the large café in the lower level to minimize background noise.

Capaul Brand Symphony[®] f panels were installed by Virginia America Construction of Gaithersburg, MD. Above the front lobby area where the luxurious smooth-textured surface adds to the aesthetics of the entrance while conversations remain private in an open plan environment. Symphony[®] f panels have a Light Reflectance of .89 and Noise Reduction Coefficient of 1.00.

The design work was completed before the U.S. Green Building Council's LEED Rating System™ was available, but the building designers took advantage of existing construction technologies and materials to

create as much energy efficiency as possible.

The designers at HOK also specified a "green" trellis spanning the exterior's sunniest south side. The trellis encourages climbing vines and vegetation to grow, providing shade and saving air conditioning costs during the hottest months of the year.

In winter, the vines are bare and sunlight passes through the trellis to help heat the interior and lower heating costs, while supplementing overhead lighting during the shortest and least sunny days of the year. According to HOK, the HVAC system size was reduced by 80 tons because of the high performance design.



Capaul[®] Brand Symphony[®] f panels were installed in the colorful front lobby area to complement the design aesthetics while also providing a high degree of noise reduction.

The building in a conventional suburban office park was built adjacent to a 130-acre conservation area within a 475-acre woodland county park, providing views of the habitat from the tall windows surrounding the building. These views could also improve the health of the people inside, as studies show views and daylight can improve human health. Meanwhile, the surroundings serve as an outdoor classroom for observation of habitat and wildlife, and walking trails provide opportunities for passive recreation. BPB's acoustical ceiling panels also improve the indoor environment by lowering room-to-room sound transmission.

Today, buildings such as the Wildlife Federation headquarters with BPB's ceiling systems could help the building team on new construction and major renovations projects qualify their project for LEED-certification.

"The recycled content in each ceiling panel and day-lighting potentials with Celotex[®] and Capaul[®] Brands are just two ways that these innovative and environmentally sustainable products can help accumulate points toward a project's LEED-certification," BPB Ceiling Systems Manager David Todd explained.

Other categories include: optimization of energy performance, and construction waste management because BPB offers an acoustical ceiling panel recycling program for qualified renovations. In addition, BPB has regionally located plants that can qualify a project for LEED points in the regional materials category. The ceilings are manufactured using cornstarch as a raw material for potential points in the rapidly renewable materials category.

Features:

Cashmere[®]

- Upscale appearance
- Lightly textured
- Highly decorative edge detail choices
- Full selection of sizes and edge details

Symphony[®] f

- Exceptional durability/scrubbability
- Luxurious, smooth-textured surface plus superior noise reduction to maximize interzone attenuation
- Perfect for exceptional speech privacy and enhanced productivity in modern open environments
- Outstanding acoustical and thermal value, high light reflectance and humidity resistance

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Ceiling Panel Product Specifications

	Item Number	Nominal Size (Inches)	Edge Detail	NRC	CAC	LR
Cashmere [®]	CM-494	24 x 48 x 3/4	Reveal	.60	35	.82
Symphony [®] f	1370-OVT-1	60 x 60 x 1 1/2	Trim, Reveal, Narrow Reveal	1.00	25	.89