

U.S. Green Building Council HQ
Washington, D.C.

CASE STUDY | government buildings



Client - U.S. Green Building Council (USGBC)

Rep Office - H&B Products Inc

Architect - Envision Design | Perkins + Will

Engineers - Stantec

Contractor - James G. Davis Construction Company

Acoustical - Charles M. Salter Associates

LEED Certification - LEED Platinum Certified

Project Highlights:

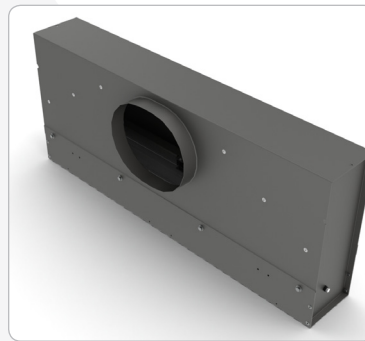
- » 75,000 square feet of new and renovated space
- » Several sustainable design elements incorporated
- » Opened August 2007



ABOUT THE PROJECT

The U.S. Green Building Council (USGBC), creators of the LEED Green Building Rating System, opened their new Headquarters building in Washington, D.C. The building, located at 2101 L Street N.W. in Washington D.C., is a LEED Platinum level certified building for Commercial Interiors that features an open work space theme with central common areas and multi-functional work spaces. The unique design underscores USGBC's commitment to Green Building innovations and designs by providing a highly functional, healthy, and enjoyable work environment.

The new 75,000 square foot office, which is divided between two floors, demonstrates how environmentally preferred green materials and highly efficient systems can transform an ordinary work space into an exceptional work place. The green features begin at the reception area and continue throughout the work space. The elevator lobby, reception and conference areas are clad in 500 year old gumwood that was salvaged from the bottom of the Tennessee River. Also, the USGBC logo is carved in a two-story section of the gumwood, which is clearly one of the space's most prominent design features. The planning, design and construction of the new headquarters was a lengthy 12-month process from site selection to the actual move-in process. Buildings were evaluated on green metrics and the desire to seek certification for the entire facility.



DYNAFUSER



OMNI-NT



ML-TZ



FLOWBAR



THE TITUS SOLUTION

ALIGNING WITH SUSTAINABILITY

Jack Wilson, Vice-President of H&B Products Inc stated, "The air outlets used in the new USGBC headquarters building were chosen for their aesthetics, performance and green attributes." A total of four different models of Titus diffusers were used for the air distribution in the new building space. The perimeter of the building presented a unique problem that Titus already had a solution for - The DynaFuser.

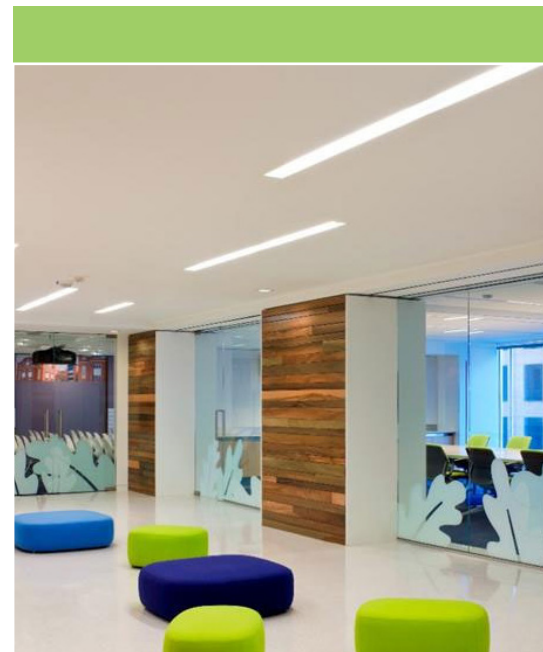
The DynaFuser is an auto-changeover plenum slot diffuser used to provide overhead heating and cooling in perimeter applications. By sensing the supply air temperature, the DynaFuser automatically changes directional pattern controllers to the correct position for heating and cooling. The DynaFuser is a GreenSpec Listed™ product that saves energy and is a great compliment to the other energy efficient products selected for this renovation.

The ML-TZ TechZone slot diffuser and FlowBar architectural slot diffusers were also selected for this project. These products were used in the areas adjacent to the perimeter. The Titus Modulinear TZ series is a high-performance, high-quality slot diffuser. The TZ series is designed to easily integrate into Armstrong's TechZone ceiling grid system providing a customized and aesthetically pleasing look with standard components. It is also designed to fit standard lay-in and tegular ceilings. Titus' FlowBar architectural linear diffuser system maximizes engineering performance without sacrificing aesthetic considerations for the designer. FlowBar's outstanding performance allows for higher airflows than conventional linear diffusers. The wide array of slot widths also allow for more CFM per linear foot while minimizing noise and pressure loss. The Flowbar system is available in continuous linear, incremental linear, square configurations and can also be curved to meet any design criteria.

OMNI-NT ceiling diffusers were utilized in interior areas to reinforce an ultra-modern design theme and to provide an exceptional level of thermal comfort. It is a steel, square plate face diffuser for narrow tee installations. Its strong, clean, unobtrusive lines harmonize with the ceiling system without sacrificing performance. The curvature of the OMNI-NT backpan works with the formed edges of the face panel to deliver a uniform 360 degree horizontal air pattern, without excessive noise or pressure drop. It is an excellent selection for variable air volume systems.

THE END RESULT

The new U.S. Green Building Council headquarters in Washington, D.C. is the perfect example of how to retrofit an existing structure from outdated concepts into a more modern energy efficient building. This new headquarters affirms their mission - "to transform the way buildings and communities are designed, built, and operated, enabling an environmentally and socially responsible, healthy, and prosperous environment that improves the quality of life."





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