



David Allen Hubbard Library

Pasadena, California

clever. creative. comfort.

Client - Fuller Theological Seminary
 Representative Office - Toro-Aire, Inc
 Architects - William McDonough & Partners / House & Robertson Architects Inc
 LEED Certification - Awaiting Certification



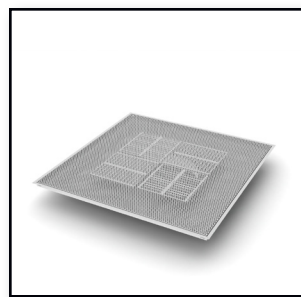
ABOUT THE PROJECT

The David Allen Hubbard Library located at the Fuller Theological Seminary is an 18-month renovation and expansion project that tripled the size of the previous library. The design team collaborated to create an energy efficient facility that would serve the institution for many years to come. With the completion of the library, the entire building flows together and offers many amenities that it couldn't in the past.

The energy efficient solutions can be found in and outside of the building. Outside, the library is close to alternative transportation and preferred parking is marked for low-fuel energy efficient vehicles. The beautifully landscaped area around the library utilizes water reducing technology which could save over 40% of use per year. Inside the building, over 75% of the material used in the renovation and expansion came from existing material within the library. The library also used low VOC paints, adhesives, sealants and carpets as well.

THE TITUS SOLUTION

Titus has a long history of working with architects, contractors and other industry professionals to create energy efficient projects. We have an



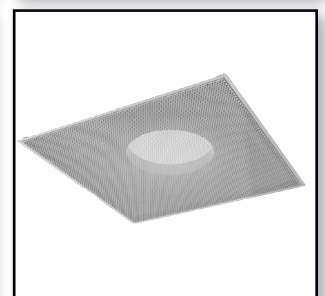
PCS



TMRA



DESV



PAR/PAS

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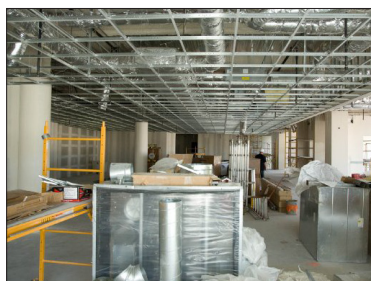
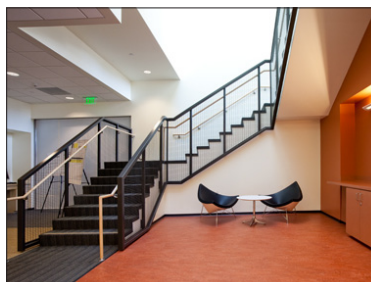


immense product portfolio that supports these sustainable concepts, plus a knowledgeable staff of proven industry professionals to provide support when needed. The David Allen Hubbard Library has several air distribution products from Titus ranging from grilles and diffusers to terminal units installed.

Perforated ceiling diffusers are typically selected to meet architectural demands for air outlets that blend into the ceiling plane. Titus perforated diffusers can be selected for a round pattern to maximize capacity or star pattern to maximize throw. The design team selected the PCS, PAR and PAS perforated diffusers for this project. Titus Series PCS ceiling diffusers are designed for longer throws. Their discharge patterns can be adjusted from either horizontal to vertical before or after installation. The PAR/PAS diffusers are designed for both heating and cooling applications.

The TMRA is an adjustable round ceiling diffuser designed for both heating and cooling applications as well. All sizes have four cones, giving uniformity of appearance where different sizes are used in the same area. It delivers a uniform 360° discharge pattern and exhibits excellent performance in variable air volume systems.

Single Duct terminals are the fundamental building blocks for Variable Air Volume (VAV) systems. Their primary function is to regulate airflow to a zone, in response to zone temperature requirements. The Titus DESV is unique as it incorporates many design features that increase performance, decrease service and installation costs, and offer increased value, over and



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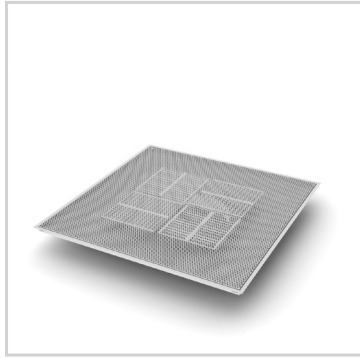
above this basic function. This unit also contains a standard AeroCross™ multi-point center averaging velocity sensor.

THE END RESULT

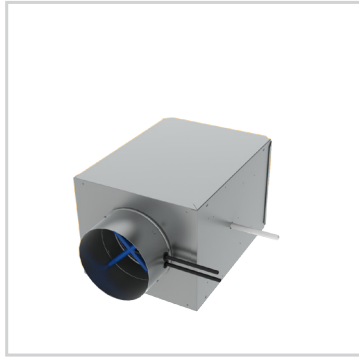
After the renovation was completed in 2009, the library opened with one of the finest theological collections in the world. The expanded David Allen Hubbard Library combines history with modern innovations to create the perfect environment for guests of many generations to enjoy plus the added feature that the library was redesign to reduce its impact on the environment is an added bonus that the surrounding community will benefit from for many years to come.



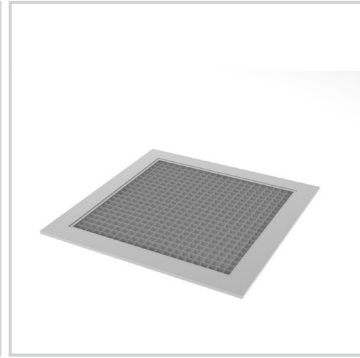
Titus Products List



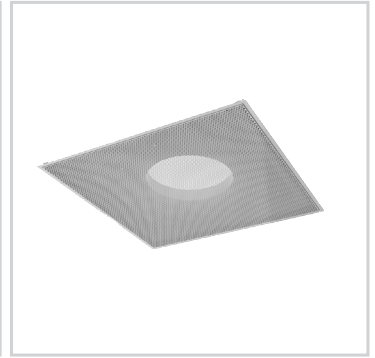
PCS



DESV



50F



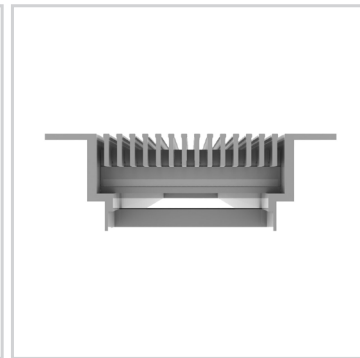
PAR/PAS



300/350R



TMRA



CT



FlowBar

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