

DAVINCI ARTS MIDDLE SCHOOL

PORTLAND, OR

ARCHITECT SRG Partnership

ENERGY DESIGN CONSULTING U OF OR ENERGY STUDIES IN BUILDINGS LAB

GENERAL CONTRACTOR
TODD HESS BUILDING CO.

MANUFACTURER CPI Daylighting, Inc.

CPI REPRESENTATIVE BAIN ASSOCIATES INC.

CPIDAYLIGHTING

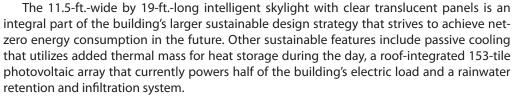


THE SWEET MELODIES OF DYNAMIC DAYLIGHTING

Portland, Oregon's daVinci Arts Middle School used the same portable classroom for its music lessons since 1918. Ninety-one years later, in the fall of 2009, da Vinci Arts Middle School was the first of 87 Portland Public School buildings to receive a sustainable makeover.

The new, free-standing, 1,500-sq.-ft. Evans-Harvard High-Performance Classroom set on da Vinci's campus has earned LEED Platinum certification for a variety of sustainable strategies including its single slope ControLite® intelligent skylight by CPI Daylighting. Specified by SRG Partners, Portland, Ore., for its large size, reasonable price and modulating control feature, the skylight provides dynamic daylighting for the building's school and community-wide music programming while saving energy and minimizing internal heat gain simultaneously.

"Having an oversized skylight was critical to providing enough daylight during the morning and evening hours," said Timothy R. Grinstead, AIA, LEED AP, Associate, SRG Partnership. "Having modulating control over the amount of light was also important to keeping illumination levels and heat gain within acceptable levels during the hotter and brighter times of year,"



"The light is beautiful," said Nancy Bond, Resource Conservation Specialist for Portland Public Schools. "It helps us reduce our electric use and one of the goals of the building is to get to net-zero. We're on track to do it and its because we have that beautiful light from the skylight."

Key to ControLite®'s success is its intelligent sun-tracking system with built-in SolaBlades®. The system captures maximum sunlight in the morning and late afternoon hours, but reduces sunlight during peak hours by rotating the skylight's internal blades to create the classroom's desired shading and sunlight transmission. A reflector suspended beneath the skylight helps disperse the daylight, maximizing high contrast ratios and increasing visual comfort as well.

"We consider the entire building as a whole, integrated system that needs to work together to maintain comfort," said Grinstead. "Providing daylight in a controlled manner is a big part of this concept."







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