

KALWALL®

high performance translucent building systems

Project Report

Amy Biehl Community School

Santa Fe, New Mexico



Architect: Greer Stafford

Wall Systems | Skyroof® + Skylight Systems | Canopies + Walkways | Hurricane-Rated E-Series™ Windows

KALWALL®

high performance translucent building systems

KALWALL SPECIFICATION:

Panel: 2.75" | 70 mm

Grid core: shoji

Exterior FRP: crystal

Interior FRP: white

System finish: aluminum #79

U-Value: .22

Solar Heat Gain Coefficient: 0.17

Visible Light Transmission: 12%

WHAT IS KALWALL?

A translucent, structural sandwich panel that provides:

Glare-free, balanced daylighting

Superior thermal performance

Energy + electricity saving

Low maintenance life cycle requirements

Safety + security through visual privacy

Durability + graffiti / vandal-resistance

Hurricane, explosion venting + blast rated options



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For unparalleled thermal performance in translucent daylighting, consider specifying Kalwall with **CABOT's Lumira®** aerogel insulation. Available in 2.75" (70 mm) panel formats up to: 4' x 12' (1200 mm x 3600 mm) and 5' x 10' (1500 mm x 3000 mm) maximum.

Amy Biehl Community School

The Amy Biehl Community School, a K-6 school in the public school system of Santa Fe, New Mexico, does more than help students learn how to be environmentally conscious. It helps them live it.

The school was one of 57 from around the country, K-12, named a Green Ribbon School by the U.S. Department of Education. The winners were honored in a ceremony in Washington, D.C.

It was the first time Daylighting Solutions of Albuquerque New Mexico's exclusive distributor and installer for Kalwall, was part of a project that earned this honor. The school, designed by Greer Stafford/SJCF Architecture, incorporates Kalwall skylights and wall systems.

The Amy Biehl School is one of the centerpieces of the Santa Fe public school system and is touted by administrators for its environmental awareness, which includes being LEED certified.

"Kalwall truly is an energy efficient product," said Kerry Abbott, president of Daylighting Solutions.

According to the USDE, the Green Ribbon is awarded to school based on their ability to meet the following criteria: "Reduce environmental impact and costs; improve the health and wellness of schools, students, and staff; and provide environmental education, which teaches many disciplines, and is especially good at effectively incorporating STEM, civic skills, and green career pathways."

Kalwall systems are prominent in many areas of the schools, including the dramatic use of skylight in the main lobby. Skylights are also used in the gymnasium and the Kalwall wall system helps bring diffuse natural light into the cafeteria.

The wellness benefit of diffuse natural daylight in educational facilities is well documented. In a study by the Heschong Mahone Group, a consultant in the field of energy efficiency in buildings, students in classrooms with the most daylighting progressed 20 percent faster on math tests and 26 percent faster on reading tests over a year period than those with the least daylighting.

