



FERRIS HIGH SCHOOL

FERRIS, TEXAS

ARCHITECT

RABE + PARTNERS, AUSTIN, TX

OWNER

FERRIS INDEPENDENT SCHOOL DISTRICT, FERRIS, TX

MANUFACTURER

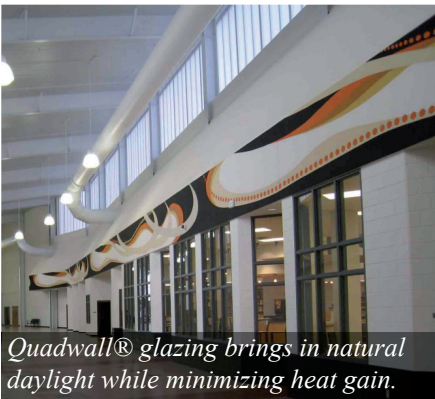
CPI DAYLIGHTING, INC.

CPI REPRESENTATIVE
CONNER LEGRAND,
LEWISVILLE, TX

CPI DAYLIGHTING *solutions*



CPI's translucent glazing heightens the aesthetic of the building at dusk.



Quadwall® glazing brings in natural daylight while minimizing heat gain.



The Quadwall® system blends seamlessly into the building envelope.

HIGH-PERFORMANCE EDUCATION

Facing rising energy and maintenance costs as a result of dated lighting and mechanical equipment, Ferris Independent School District (Ferris ISD) in Ferris, Texas, set out to build a new high-performance high school in 2007. Today, the new facility helps make the district one of the most energy efficient in the state.

Designed by Austin's Architects Rabe + Partners, the school's trademark is its 500-ft.-long open commons area spanning the building's East side and featuring a Wall Light system from CPI Daylighting, with pre-assembled 4-inch panelized Quadwall Clear Matte glazing.

"We wanted that to be an open plaza, but needed to enclose it for security reasons, so we used [CPI's] daylighting panels to give that feel of being an open, exterior space acting as the spine of the school," said Dale Rabe, AIA, owner, Architects Rabe + Partners. "Quadwall was the product we needed to make the open area happen. We wouldn't have been able to design the building the way it is with the daylighting if we wouldn't have had it."

But, bringing daylight into the space was just one of the objectives for using Quadwall; minimizing heat gain was also a must in order to comply with Ferris ISD's new energy requirements. Specified with a clear matte finish, the school's Quadwall panels provide an insulation U Value of 0.239 and a shading co-efficient of 0.43, bringing diffused daylight into the building without glare and uncomfortable heat gain.

"If you had that much glass in there, you wouldn't be able to maintain the energy requirements that we're working to achieve," said Steve Nalley, facilities director for Ferris ISD. "Anytime you get that much natural light inside a building and it doesn't affect the temperature of the building, it's great. Plus, glass takes a whole lot more to keep clean; the maintenance of it would be much greater."

Rabe expects the 7,000-sq-ft total of Quadwall located throughout the building to survive the 40 year life expectancy of the building. Working together with the school's daylight sensors and a district-wide building automation system, the Quadwall panels are a central piece of the energy efficient puzzle that makes up the new Ferris High School.

"We were energy efficient because of the cladding and that's a big problem to solve," said Rabe. "[The Quadwall system] allowed us to do the daylighting without the heat gain. It was huge."

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FERRIS HIGH SCHOOL

UNIT "A" ELEVATION NORTH EAST ELEVATION AREA 1

SCALE: 1/2" = 1'-0"
(1) UNIT REQUIRED
"FURNISHING & INSTALLATION"
SHIP FRAME KNOCKED DOWN
SHIP GLAZING IN PRE-ASSEMBLED PANELS

