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## LONE STAR COLLEGE

### Smooth metal contrasts with rough stone to unify college campus buildings

Community colleges play an important role as both education resources and as gateways to additional higher education opportunities. Many have started partnering with local secondary schools to help students get a leg up, with programs for earning college credits before they've even earned a high school diploma.

The Lone Star College system, with multiple campuses in the Houston metropolitan area, takes this approach a step further with its own onsite technical high school named the East Aldine Satellite Center. The 64,000-sq.-ft. facility features a contemporary design with a restrained palette of façade materials, including eye-catching metal panels in two distinctive finishes.

Designers on the project, including lead firm IBI Group and the Houston-based Collaborate Architects as design and associate architects, worked with materials guidelines provided by local government officials in their plans for the combined building's exterior. Stone, metal panels and glass were highlighted in those guidelines for the college, and became included in the high school as that facility grew to be more closely connected to the larger structure.

"Initially, the early college high school was designated as a separate building," says Dwayne Mollard, AIA, principal with Collaborate Architects. However, as plans evolved, the high school became, instead, a wing of the college's main building – and, potentially, additional college space, should the high school relocate at some point in the future. "As a result, the high school was designed by the college's guidelines, providing homogenous rooms and exterior to more easily integrate into the college, if

necessary.”

The 15-acre campus is part of a larger, 50-acre development envisioned to include office space, retail and a community amphitheater, so designers wanted the school to feature a signature, anchoring exterior, to “project permanence for the surrounding community,” Mollard says. This led to a three-part arrangement of natural stone up to the sill of the second-floor window openings, followed by a course of smooth cast stone that transitions to smooth metal panels that became the soffit and fascia for roof overhangs. Metal wall panels also help call out some of the exterior corners.

“The metal panels gave us a crisp, smooth surface and edge that offset and contrasted with the randomness of the stone,” Mollard says. “They also provided an opportunity for additional color in the façade.”

IBI’s designers specified Petersen’s PAC-CLAD architectural cladding for all the metal work, which included three separate products from the company’s line-up. Approximately 20,000 sq. ft. of Precision Series panels in the Highline S1 profile were used for the walls, while another 18,000 sq. ft. of Flush panels were used for the roof overhang’s soffit and fascia, all of which were 22-gauge steel in a Copper Penny finish. Another 800 sq. ft. of .050-gauge aluminum Highline S1 panels in a red finish were used to create the freestanding sign kiosk for the school.

Houston-based PRC Roofing Co. installed all the metal, along with the school’s flat membrane roof. Vice president Tony Delgado, who runs the company’s sheet metal division, says he guided the decision for the switch to aluminum for the kiosk’s panels. “Aluminum does better if you’re using a color like red – it tends to pop. Also, I wanted to use something thicker, so when people brush up against it, it won’t dent.”

Delgado points out that PRC Roofing is a family affair. His father, Daniel, founded the company and is still its president, while his brother Andrew runs the flat roofing division, which installed the school’s membrane roof. He says that managing both sides of the school project kept the company busy. “We had quite a few people out on that project every day – it was one of the better projects we’ve done lately.”

Public opinion on the finished effort has been overwhelmingly positive, Delgado says. “It’s been great; we’ve gotten great reactions to it,” he says, offering compliments to the design team, as well. “Their vision was good – it came out looking beautiful.”

The East Aldine center is the third such collocated facility in the Lone Star College system, incorporating the Rose M. Avalos Pathways in Technology Early College High School along with associate degree

programs in inspection and welding technologies plus entry certificates in heating, ventilating, air conditioning and refrigeration. High school students can earn up to 60 college credit hours along with their diploma.

Petersen, a Carlisle company, manufactures PAC-CLAD architectural metal cladding systems in multiple gauges of steel and aluminum. PAC-CLAD products include hidden- and exposed-fastener wall panels, standing seam roof panels, flush- and reveal-joint wall panels, vented or solid soffit panels, perforated metal, coil and flat sheet, composite panels, column covers, plus fascia and coping. All are available in a Kynar-based 70% PVDF Fluoropon coating in 46 standard colors and 16 wood grain finishes that include a 30-year finish warranty. Most colors meet LEED requirements and are rated by the Cool Roof Rating Council. Custom colors and weathertightness warranties are offered. BIM and CAD documents are available for most products. Founded in 1965, Petersen's facilities are located in Illinois, Georgia, Texas, Maryland, Arizona and Minnesota. For information on the complete line of Petersen's PAC-CLAD metal products call 800-PAC-CLAD, visit [pac-clad.com](http://pac-clad.com) or write to [info@pac-clad.com](mailto:info@pac-clad.com).

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Petersen manufactures PAC-CLAD metal cladding products in multiple gauges of steel and aluminum. PAC-CLAD products include standing-seam roof panels, hidden- and exposed-fastener wall panels, flush panels, soffit panels, perforated metal, fascia and coping systems, composite panels, column covers, coil and flat sheet. All are available in full 70% PVDF finish (Kynar) in 46 standard colors that include a 30-year finish warranty. Most colors meet LEED, Energy Star and Cool Roof Rating Council certification requirements. Founded in 1965, Petersen's facilities are located in Illinois, Georgia, Texas, Maryland, Minnesota and Arizona.

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Editorial contact:

Rob Heselbarth

847-981-4707

[rheselbarth@petersenmail.com](mailto:rheselbarth@petersenmail.com)