

Project #19 – High Performance



UC Davis Health

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Participant Information:

Premier Building Systems: Premier SIPS

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Category:

Commercial/Industrial/Institutional Buildings under 10,000 sq. ft. - High Performance

Project Information:

UC Davis Health - Davis Campus Clinic (University of California)

2684 Hutchison Dr

Davis, CA 95616

Date completed: Jan 2021

Dimensions: 36 ft x 65 ft

Total sq.ft.: 4,020 SF

Built by:

Boldt Construction

Karen Carr

2150 River Plaza Drive Suite 255

Sacramento, CA 95833

916.583.5600

Panels Manufactured by: Premier Building Systems: Premier SIPS

Designed by:

Boulder Associates Architects / Mark III Engineering

Silviano Velazquez

1651 Alhambra Blvd Ste 120

Sacramento, CA 95816

916-492-8796



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Building use:

4,020 sq. ft. outpatient care medical office building including 9 exam rooms on the UC Davis education campus. Part of a world-class university and the region's only academic health system, the new UC Davis campus clinic offers dedicated doctors, patient-centered primary care for adults and children, convenient bike access and plenty of parking.

SIP benefits for this job:

Quality, speed of construction, reduced lead times vs site fabrication. Due to the need to complete the clinic prior to the open enrollment period, this design-build project required particularly close coordination between the project team to maintain the compact scheduling requirements. By identifying and eliminating unnecessary costs and focusing on the use of best practices (such as panelized construction), the project was able to be constructed quickly and efficiently, successfully meeting the Universities aggressive project deadline.

SIP wall thickness: 4" EPS

SIP roof thickness: na

Benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy?

Much of the project was prefabricated off-site to expedite field construction schedules and decrease defects in construction. Factory fabricated walls freed up both procurement of multiple components for assembly and decreased material lead time. High performance energy efficiency of SIPs alone is enabling the project to pursue LEED silver certification. The project team heavily relied on BlueBeam Studio sessions for review of all submittals, RFIs, system assemblies, components and drawing collaboration, creating a paperless jobsite. Boldt Construction self-performed rough carpentry and prefabricated panel installation.

Innovative design elements or structural engineering involved:

Steel interior wall, roofing panels along with the exterior wall SIP panels were all prefabricated off site and delivered for fast assembly. Pairing steel with SIPs for a hybrid structure enabled a unique design, large roof spans and minimal structural engineering required as the panelized components are manufactured to load/span capacities that are easy to incorporate into an overall building design.

Certifications the project received:

California Title 24. Architects are currently in the process of attaining LEED-NC Silver certification.

Blower door test results:

Awaiting from contractor

Energy use intensity in kBtu/ft²:

Awaiting from UC Davis Facility Operations (10 months operational)

HVAC:

HOT WATER QUAD LOOP & HUTCHISON CONVERSION
CUSTOM HEAT EXCHANGER AND DISTRIBUTION PIPING
Awaiting more system specifics from Engineer (Mark III)

Additional energy-saving materials used in the building envelope:

High efficiency argon gas aluminum windows. Extra layer of roof insulation (awaiting type/r-value from contractor)

Additional sustainable materials or design features not listed above, such as recycled materials, low-VOC finishes, landscaping, etc.:

Low/No VOC hard surfaces, paint.

Energy-efficient products or design features:

LED lighting throughout, awaiting more details from contractor.

Solar panels installed:

Solar ready, for near-term future installation.

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