

Project #8 – Classic



Lewis Angapak School

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Participant Information:

Premier Building Systems LLC

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Category:

Commercial/Industrial/Institutional Buildings over 10,000 sq. ft.

Project Information:

Lewis Angapak School

119 Village Rd

Tuntutuliak, AK 99680

Date completed: 07/31/2021

Total cost of the project: \$34.4 million

Dimensions:

255 LF Long, 240 Wide and 27.6' High (peak of roof)

Included a 6' tall utilidor below the building ~15,177 SF surface area of SIPs

Total sq.ft.: 17,862, Addition (SIP Walls, Floors, Roof, Utilidor) 17,060 GSF, Maintenance

Bldg (SIP Walls, Floor, Roof, Utilidor) 1,278 GSF

Built by:

ASRC SKW Eskimos, Inc

Marissa Myrick

3900 c St Suite 300

Anchorage, AK 99503

907-339-5418

Panels Manufactured by: Premier Building Systems LLC



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Designed by:

BDS Architects
Bryce Hamels
3330 C Street Suite 200
Anchorage, AK 99503
907-562-6076

Building use:

K-12 School, mechanical and utility building, and Community gathering place.

SIP benefits for this job:

SIP construction was specified by the Owner and Design team.

SIP wall thickness: 8-1/8" Core: Type I EPS SKIN: 7/16" OSB
SIP roof thickness: 12-1/8" Core: Type I EPS SKIN: 7/16" OSB

Comments on labor saving, construction time, construction costs and energy savings:

SIPs helped save in shipping costs to the remote site of Tuntutuliak, AK. Due to the composite structure of SIPs they saved time on installation as well as saving space at the limited material staging location.

Innovative design elements:

This project included a 6' tall 7,200 SF floor utilidor below of structure to house building water, waste, and glycol heat trace. The SIP utilidor surface area total was 15,177 SF and was lined with ice and water shield and sheathed with 24ga sheet metal. The space was conditioned with fin tubes and lighting provided by LEDs throughout.

HVAC:

HVAC consists of a glycol heating system powered by three 837MBH boilers. Two each HRV's and AHU's were installed to service separate areas of the school (one set in the new addition, one set in the renovated area). Glycol heat trace lines were run throughout the building utilidor and arctic pipe that services adjacent teacher housing and mechanical buildings to prevent pipes from freezing.

Additional comments:

This building design used passive thermosyphons at the newly installed pile to assist with ground freeze back and frost jacking. SIPs were also used as the floor assembly on steel framed structure to help create a fully sealed and insulated envelope. Project was completed Fall 2021.

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