

Project #18 – Classic



St. Croix Drum Ceremony Building

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Participant Information:

Enercept
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Category:

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

Project Information:

St. Croix Drum Ceremony Building
24844 Angeline Ave
Webster, WI 54983

Date completed: July 2021

Total cost of project: \$900,000

Dimensions: Octagon 24' per side

Total sq.ft.: 4,500 SF

Built by:

Froehle Woodworking LLC
Frank Froehle
25671 County Rd 138
St. Cloud, MN 56301
320-290-2723

Panels Manufactured by: Enercept SIPs

Designed by:

DSGW Architects
3479 Lake Elmo Ave N
Lake Elmo, MN 55042
218-727-2626



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Building use:

The St. Croix Drum Ceremony Building is a multi-purpose building. The primary use to host sacred Native Drum Ceremonies. The building is equipped with a commercial kitchen and is also used for tribal and public gatherings, celebrations, and meetings.

SIP benefits for this job:

The Enercept relationship with the General Contractors, Woodstone, Inc. goes back several years. After learning about SIP Construction, Woodstone wanted to use SIPs for the ease of construction, speed of construction, and energy-efficiency.

SIP wall thickness: 6" walls with EPS insulating core

SIP roof thickness: 10" roof with EPS insulating core

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

According to builder, Frank Froehle, it took his three-man crew four days to install panels, plus one day with a crane to install the beams. Frank felt it would have taken twice as long to stick frame this building.

Innovative design elements or structural engineering involved:

The most innovative design element in this building is the roof with the center brace and glulam beam system that is both attractive and functional. The building also features a drum pit in the center of the floor with a removable covering.

HVAC:

The building is heated with a Carrier model #59TP6B060V17-14 gas furnace; 96.3 AFUE and meets Energy Star version 4.1.

The building is cooled with a Carrier model #24ABB336ABN3 13 SEER central air conditioning unit.

Additional energy-saving materials used in the building envelope:

LED lighting was used for both interior and exterior lighting.

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

All paints and stains are low-VOC.

Additional comments:

According to the DSGW Architecture website, "Respect and listening are the foundations of meaningful collaborations with Indigenous communities. Because, for tribes, buildings are more than bricks and mortar. They have spirit and soul."

The St. Croix Drum Ceremony Building was built for the Ojibwa, St. Croix Chippewa Indians of Wisconsin.

The building has also been approved to act as an Active Covid Shelter, should the need arise.

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