

Classic Competition



Jorgenson Land & Cattle Offices

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Participant information

Enercept, Inc.
 Charlie Ewalt-Roberta Bartel-Neal Mack
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 Watertown, SD 57201
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Website: www.enercept.com

Category: Agricultural

High Performance: No

Project information

Jorgenson Land and Cattle (JLC) Office Building
 31250 265th Street
 Ideal, SD 57541

Date Completed: 05/2017

Dimensions of building (all floors of multi-story building): 60' x 110' main level / 60' x 22' second level

Total sq. ft. of conditioned space: 7,920 sqft

Built By (if different than applicant)

Jensen Construction Services, Inc.
 Robb Jensen
 210 North Main Street
 Parker, SD 57053

Panels Manufactured By Company Name (members only): Enercept, Inc.

Designed By (if different than applicant - SIPA will only recognize members)

Pro Group
 Wendel Potrate
 208 E. Holly Blvd.
 Brandon, SD 57201

Total sq. ft. of conditioned space: 7,920 sqft



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**Describe the end use of the building:**

Jorgensen Land & Cattle is a family owned and managed diversified crop and ranch operation located in South Dakota. The office building will be home to administrative offices, conference room, reception area and break / lunch room.

How did SIP construction help you get this job?

The temperature extremes in this part of South Dakota fluctuate from well below zero in the winter months to above 100 degrees during the summer months. The energy savings potential was a key factor in the owners' decision to build with SIPs.

SIP wall thickness and core material: 6" EPS SIP wall panels

SIP roof thickness and core material: 8" EPS SIP roof panels

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

A major benefit of using SIPs in the construction of the JLC Office Building was the time savings factor. Robb and his crew were able to set 320 lineal feet of wall panel in one day. In December 2016, despite single digit temperatures, the construction crew got almost all of the exterior walls up in one week. Because of the remote location, finding construction labor was a challenge. SIPs made it easier to build using fewer people.

Describe any innovative design elements or structural engineering involved: The JLC Office Building was built to meet or exceed 2015**Building Code:**

Live Roof Load: 20 psf

Ground Snow Load: 43 psf

+ Drifting: 30 psf

Wind speed 115 mph exposure C Ultimate

Describe the HVAC system used on the project:

Four Carrier Infinity electric (3 ton) heat pumps were installed for the main level

A 2-1/2 Ton unit was installed for the upper level.

Any additional comments on the project:

The builder, Robb Jensen, had never worked with SIP panels before and really enjoyed the experience. He is eager to install SIPs in the future. The owners noted that they have been able to heat and cool this 7,920 sqft building for about the same amount as their old office, a 1,000 sqft house.

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Construction view

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