

## Project #4 - Classic



# Hidewood Meats

## Hidewood Meats



### Participant Information:

Enercept  
Roberta Bartel  
3100 9th Ave SE  
Watertown, SD 57201  
605-882-2222  
rbartel@enercept.com  
www.enercept.com

### Category: Agricultural

### Project Information:

Hidewood Meats  
47700 188th St  
Brandt, SD 57218

Date completed: May 2021

Dimensions:  
50' x 70'

Total sq.ft.: 3,500

### Built by:

Brent Jeppesen  
2301 120th St  
Canby, MN 56220

Panels Manufactured by: Enercept SIPs

### Designed by:

Kevin Nielsen  
47700 188th St  
Brandt, SD 57218  
605-876-1605

### Building use:

Hidewood Meats provides custom meat processing of beef, pork, lamb, goat, and deer. It is also a retail outlet for meat, seasonings, sauces, cheese, and honey.



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### SIP benefits for this job:

The Nielsen's chose SIPs for the insulating value - especially for the coolers and freezers that make up the bulk of the building's square footage.

SIP wall thickness: 6" walls with EPS foam core

SIP roof thickness: 10" roof with EPS foam core

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

Using SIPs saved the builder a great deal of time.

SIPs were used for most of the interior walls as well as all of the exterior walls.

Using SIPs with factory installed Fiberglass reinforced plastic (FRP) also saved a huge amount of on-site labor cost.

### Innovative design elements:

SIPs were used for all exterior walls plus interior wall and ceiling panels for the coolers, cutting room, freezer, and smoke house. A reinforced trussed system installed over the insulated SIP roof panels, supports a rail system to move product from the chute to hanging cooler, and cutting room. The rail system support (trusses) must support 2,000-5,000 pounds per rail.

FRP was installed at the factory for all interior surfaces; because it is a food processing facility, stainless steel nails were used to connect the SIP panels.

### HVAC:

Propane-fueled, Rheem 95% efficient residential furnace heats the store front, office, and restroom. The air is cooled in the summer with an electric Rheem central air unit.

Compressors control the temperatures in the walk-in coolers and freezer.

### Additional energy efficient products or features:

There are three double-pane windows on the south and west facing sides of the store front that utilize solar gain in the winter months.

### Additional energy-efficient products or design features:

LED lighting is installed throughout the building.

Sustainable materials or design features, i.e. low VOC finishes, landscaping, or recycled materials:

There was no paint needed for the interior which is covered in FRP. The floors are unfinished concrete.

### Additional comments:

The owners relocated from a metro Minnesota area to their hometown of Brandt (population 107) to start their own business. Hidewood Meats services a multi-county agricultural community in eastern South Dakota and western Minnesota.

The owner, Kevin Nielsen, noted that other than some moisture issues early on (corrected with an air-handling system) he is very pleased with the efficiency and functionality of his building.



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# DECK 3

Judges Final

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