



Prairie Winds United Methodist Church

Prairie Winds United Methodist Church



Participant information

Enercept, Inc.
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Watertown, SD 57201

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Category

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

High Performance: No

Project information

Prairie Winds United Methodist Church
2510 21st St W
Dickinson, ND 58601

Date Completed: September 2018

Total cost of project (exclusive of land): not available

Dimensions of building (all floors of multi-story building):
Irregular; overall 196' x 130'

Asking price/purchase price (Affordable Housing only): n/a

Total sq. ft. of conditioned space: 21,000 sq. ft.

Built By (if different than applicant)

Roers West
Shane Roers
1260 West Villard
Dickinson, ND 58601
Panels Manufactured By

Company Name (members only): Enercept, Inc.



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

Hulsing & Associates

Jan Prchal

100 State Ave

Dickinson, ND 58601

Total sq. ft. of conditioned space: 21,000 sq. ft.

Describe the end use of the building: The Prairie Winds United Methodist Church encompasses classrooms, office space and a combined fellowship hall and worship area for the Congregation.

How did SIP construction help you get this job? The foundation of the old church was crumbling and beyond repair. The congregation moved out of the building and it was torn down in June of 2017. They had an urgent need for a new church and building with SIPs was one of the solutions. The architects strive to make their designs environmentally friendly and try to limit the use of non-renewable materials. By using SIPs in this design, they were able to create an efficient structure for the church.

SIP wall thickness and core material: 6" walls with EPS solid core insulation

SIP roof thickness and core material: 10" roof with EPS solid core insulation

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy? There were a couple of changes in building crews during this project, using SIPs made the transitions easier. They also encountered some high winds during the construction phase that knocked a few of the panels over. Because of the strength of the SIPs, nothing was damaged, and the panels were able to be reset.

Describe any innovative design elements or structural engineering involved: The building was engineered to meet or exceed the 2012 IBC; to withstand winds up to 120 MPH and a roof snow load of 30 PSF.

Please list any certifications the project received, such as ENERGY STAR, LEED, National Green Building Standard, WELL, Passive House, Green Globes or local green building programs. Only list certifications that are completed: n/a

HERS Index (required only for High Performance Category and recommended for residential projects): n/a

Blower door test results (ACH50) (required only for High Performance Category and recommended for residential projects): n/a

Energy use intensity in kBtu/ft² (required only for High Performance Category and recommended for commercial projects): n/a

Describe the HVAC system used on the project: Make up air unit: Greenheck model DGX-108-H12, 1310 CFM, Direct fired natural gas heat, packaged DX Cooling system.

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Describe any other energy-saving materials used in the building envelope other than SIPs. List U-values of windows used and the U or R-value of any insulation materials. (judged only for High Performance Category) n/a

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar (judged only for High Performance Category): n/a

Were any solar panels installed on the project? If so, indicate the size of the system (judged only for High Performance Category): n/a

Please list any sustainable materials or design features not listed above, such as recycled materials, low-VOC finishes, landscaping, etc. (judged only for High Performance Category): n/a

Any additional comments on the project: "It's really wonderful to have our own building. Everyone's really pleased with the fact that we're all on one level," Pastor Dick Rinearson says. Now, due to the new structure's ADA-compliant design, members who have mobility issues avoid dealing with stairs and are able all church activities throughout the building.

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Exterior front view

Prairie Winds United Methodist Church



Exterior front view

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Interior view

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Interior view

Prairie Winds United Methodist Church



Kitchen view

Prairie Winds United Methodist Church



Construction view

Prairie Winds United Methodist Church



Exterior night view

Prairie Winds United Methodist Church

