



Structural Insulated Panel Systems

Panelworks Plus, Inc. 4861 Ambassador Blvd NW St. Francis, MN 55070

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Date: January 16, 2019

To: SIPA

Re: Building Excellence Application

Participant Information

Company: Panelworks Plus, Inc.
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Category: Commercial Building under 10,000 Square Feet

Project Information: Invictus Brewing / Topsy Steer
2025 105th Ave NE
Blaine, MN 55449

Project completed: May 2018

Building size: 80' x 104' x 20'

Total are of conditioned space: 8,200 Square Feet

Built by: GCM Construction
Ben Meints
2201 107th Lane NE
Blaine, MN 55449

Panels Manufactured by: Extreme Panel Technologies, Cottonwood, MN

Panels installed by: Panel Setters Plus, Andover, MN

Designed by: Wilkus Architects
Kevin Green
15 9th Ave North
Hopkins, MN 55343

End use of building: Craft brewery and restaurant

How did SIPs help you get the job? See attachment from General Contractors of MN (GC)

SIP wall thickness and core material: 8-1/4" and 10-1/4" SIPs with Expanded Polystyrene Insulation

SIP roof thickness and core material: 10-1/4" SIPs with Expanded Polystyrene Insulation

Describe benefits of using SIPs: See attachment from GC

Describe innovative design elements: See attachment from GC

List any certifications: None were applied for

HERS Index: Not determined

Blower door test results: 1.39 / ACH50

Energy use intensity: Not determined

Describe HVAC system: See attachment from GC

Describe other energy saving materials: See attachment from GC

List other energy efficient products: See attachment from GC

Were solar panels installed? No but plans are to add PV later

Sustainable materials or features: See attachment from GC

Additional comments:

Panelworks Plus is proud to have been part of this great building project. Since the building layout was complete before our involvement, several changes were needed to adapt SIPs into the design. Careful coordination was required to make best use of panels. By using Starwood LamPly roof trusses set at 8' O.C. and covering with 8' x 24' SIP roof panels, there was virtually no waste generated in the production of the roof panels. Sidewall panels were also 8' wide with support columns for the LamPly trusses being incorporated into the wall panels. Due to the height of the end walls at about 32', there was a considerable amount of glulam beams within the 10-1/4" SIPs required to provide adequate wind loading. In addition, one end wall also had large windows located high and glass overhead doors below that open from the tap room to an exterior dining area. The exterior was finished with Nova Brick and colored steel on the sidewalls, and a standing seam steel roof, ready for addition of PV panels in the future.

For additional comments see the attachment from the general contractor.

Checklist

I confirm that:

My company is a SIPA member, panels were manufactured and installed by SIPA members.

I have answered all questions that apply completely.

I have enclosed required images.

I have read and understand the rules for this competition. The entry is structural insulated panel construction as defined in the SIPA Building Excellence Awards guidelines. I understand by making this submission that my pictures will be used by the Structural Insulated Panel Association to promote the use of structural insulated panels. I hereby give permission to SIPA to use the enclosed pictures for any use they see fit in that endeavor. I understand that where possible, SIPA will give credit for pictures used to my company as listed above.

Curtis L Stendel, President
Panelworks Plus, Inc.

January 16, 2019