



Ron Schaffer-Project Manager ron@conbldctr.com
Galen Schaffer-Site Superintendent galen@conbldctr.com
Consolidated Building Center, Inc. (CBC)
www.conbldctr.com
610 S. Center Street
Forrest, IL 61741
815.657.8905 office phone

2013 SIPA Agriculture Building Excellence Award Submittal:

Project Name: McGreal Farms Agriculture Farm Shop Chatsworth, IL. 60921

Dimension: 80Wx140Lx20'Tall

Manufacturer: **Energy Panel Structures (EPS)** www.epsbuildings.com

Consolidated Building Center provided structural insulated panel (SIPS) tilt up building systems for a machine shop to service **McGreal Farms and Transportation Company**. **Consolidated Building Center** has attained significant market share with **Energy Panel Structures** SIPS system www.epsbuildings.com/PDFs/Solid%20Core.pdf in East Central Illinois agriculture new construction market, providing for strong referrals for the company. The benefits to the final customers in the market have been product durability-structural diaphragm and shear, energy efficiency-return on investment, conditioning of the structure-climate control, and working with a qualified construction management and installation team.

Consolidated Building Center implements best practices, project site management, and customer need analysis, with a thorough assessment of product implementation, providing satisfied customers, and strong referrals, the best advertising a builder can achieve.

Consolidated Building Center's past performance and effective partnership with **Energy Panel Structures**, made Tim McGreal's decision to select the SIPS product for his large machine shop a solid investment decision.

The EPS system provided is an expanded polystyrene closed cell construction 8-1/2" R-33 wall system. The implementation of the 80' clear span roof trusses with no piggybacks, and overhangs pre-fabricated provided for a safer project site implementation. The roof truss components included the code required draft stop design, and multiple attic access.

Energy Panel Structures provided the W24x84 steel beam and columns for the integration of the power lift door systems www.powerliftdoors.com hydraulic door and frame. The size of the hydraulic door insulated by CBC Building Centers is 40'Wx18H. An insulated 24Wx18H overhead door system for the truck wash bay at the sidewall elevation was also included.

Tim McGreal appreciated the thorough project management by CBC's Ron Schaeffer and site carpentry supervision and installation by Galen Schaeffer. Tim was impressed with the structural engineering provided by EPS, including the wrap around porch design with the LVL header system.

We have enclosed a copy of the heat loss calculations of standard wood post frame construction in comparison to the EPS Solid Core construction system.

Ron and Galen Schaeffer of CBC also utilized the following products for energy efficient and sustainable construction for Tim McGreal's farm shop:

- Hayfield Insulated Vinyl Windows
- AJ Insulated Service Doors
- House Wrap for drainage plane and bulk water management
- EPS 29 gauge corrugated rolled steel siding and roofing with G-90 galvanized base
- CCX interior plywood for moisture resistance office area with 31 gauge white steel liner in the shop area.
- Parker Door Hardware Systems: Brushed Chrome Locksets-Concealed Screws-Security

Energy Panel Structures Engineered Structure:

- Hydraulic door knee brace system with 3-ply 2x6 machine bolted to bottom and top chord of roof truss
- Roof truss engineering and structural diaphragm design integration with commercial structural insulated panel systems
- Lean manufacturing and product shipping standards with weather protected membrane with wall panel labeling for installation
- Installation drawings and engineering details per IBC 2009 Building Codes

CBC project site preparation and the use of concrete pier-rebar systems with steel turnbuckles assured project site safety, wind resistance, sustaining a microburst August storm before the roof trusses were installed.

Thank you,

Dave Thomas
District Sales Manager
72 Burnette Drive
Antioch, IL. 60002

dthomas@epsbuildings.com

847-393-3106 Cell Phone

Energy Panel Structures, Inc

www.epsbuildings.com

102 East Industrial Park • Graettinger, Iowa 51342 •
Office: 712-859-3219 Ext. 1024 • Fax: 712-859-3275