

# J. Built Buildings



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## **2012 SIPA Building Excellence Award Submittal:**

Project Name: Bangert Agriculture Farm Shop / Future Resident  
7599 Timber Creek Rd.  
Shirley, IL. 61772

Dimension: 32x64x18'tall w/30'x30'x18' tall and Room-in-attics (see below for more description of size)

Manufacturer: Energy Panel Structures (EPS)

Category Entry: **Agricultural**

This structure was designed for several different needs for the Bangert Family Farm see below.

- **The north portion of this building which is 32' wide and 17' long 12'-10" tall with room-in-attics is a workshop for Mr. Bangert. This area has an EPS R-18 SIP wall and EPS R-26 SIP wall**

to maximize insulations. The Room-in-attic trusses have been placed over this area for a future bonus area.

- The Southern area of this building which is 32' wide and 47' long with a height of 18' tall it has an interior 4/12 vaulted truss system at this location. There is an I-Joist Floor system @ 9' from grade to the 2nd floor to separate to levels. In this floor system there is an open to below area which consists of an 21'-6" by 30'-6" open area by opening this area up and vaulting the trusses @ this location give the Bangert a 23'-4" height in this area. This area also utilized the EPS R-26 SIP panel with engineered structural spline to maximize the height and strength. Truly give the Bangert a great open feel and great insulation with the SIP's.
- The Eastern portion of this building which is 30' wide and 30' long and 18' tall utilized the I-Joist Floor system @ 9' from grade to the 2nd floor to separate in to 2 levels. The lower has been used for a two car garage and storage for old barn wood the Mr. Bangert saves. The second level will be future Home for the Bangert. This area also has Room-in-attic truss system for future bonus area. With the EPS R-26 SIP panels J-Built Buildings was able to maximize strength and insulation.

This building has 2561sqft on lower level, 1905sqft on second level and 564sqft in room-in-attic for an impressive total of 5030Sqft. on three different levels for storage for old barn wood and farming equipment.

By using the EPS R-26 which is a 6 ½" SIP panel J-Built was able to maximum wall heights to get the look that the Bangerts want along with a far superior insulation at the end of this day this was a very easy sell. J-Built also used the Anderson 100 series Single Hung to minimize air infiltration this window are top of their class in this area. The exterior skins for the roof and the wall J-Built used McElroy Meridian panel this product also helps fight the air infiltration.

The Bangert's are researching different types HVAC at this moment but have not been committed to any at this moment.

This Ag Storage Barn was conceptually designed from and in ground Old German Barn style and mimic it well with a modern feel

**Pat Brown**

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