

CASE STUDY:  
WINTERSET COMMUNITY CHURCH ADDITION



## Challenge

Winterset Community Church wanted a larger gathering space for the local community, so they decided to add a gymnasium to their worship building. The addition had to be built quickly while the church was still in use, blend in seamlessly with the existing structure, and offer high noise protection between the church and the gymnasium.

The gym's design features very tall and varied wall heights from 20-25', and the construction team had to contend with a tight space that was surrounded on three sides. Fox Blocks ICF met every challenge. The project achieved a Sound Transmission Class Rating of 50. The construction team also took advantage of the ability to stack and store the ICF blocks within the project footprint, and organized the concrete pours in segments using cold joints with vertical dowels for an easy solution to construct the tall walls.

The proprietary Fox Blocks crossties were used within the blocks at 8" on center, are full height, and 1.5" wide, and the corner blocks' additional brackets added strength, which allowed for attachment on all corners. The final product is a beautiful gym with straight, plumb, and square walls.

## Project Highlights

**Building addition to existing 100-year-old structure**

**Added 8,000 sq. ft. with no increase in energy costs**

**High Sound Transmission Class rating – STR 50**

**Tall walls varying from 20 to 25'**

## Project Stats

**Location:** Winterset, IA

**Industry:** Light Commercial

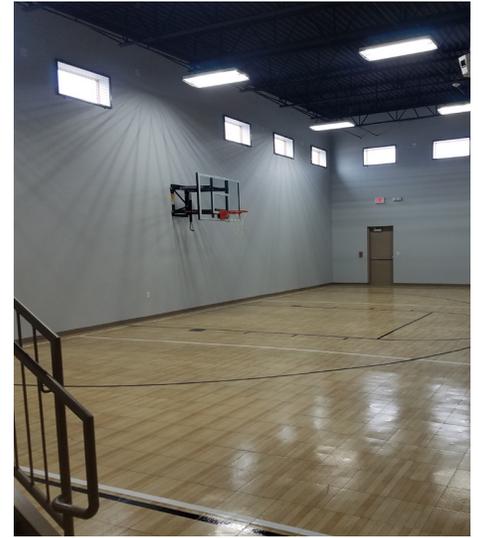
**Size:** 8,100 sq. ft. (Floor)

**ICF Use:** 7,500 sq. ft.

**Cost:** \$124,500

**Total Construction:** 30 weeks

**ICF Installation Time:** 30 weeks



## ***THE PROJECT HAS BEEN A HUGE SUCCESS FOR THE CONGREGATION AND COMMUNITY.***

### **Sustainability**

Although this new gymnasium added over 8,000 sq. ft. of space to the building, there has been no increase in energy costs. This feat could not have been accomplished without Fox Blocks ICF. The new build closed off parts of the old structure's exterior walls, making them interior walls. It is a truly energy-efficient project.

### **Timing**

This project was completed as scheduled, with no construction delays.

### **Budget**

The project has been a huge success for the congregation and community. It was completed on budget and did not increase energy budgets for the overall building. Building with Fox Blocks ICF came in under the costs of the estimated price to build with structural steel, and the cost savings for utilities were passed on to construction costs, making it a winning situation for all parties. Using Fox Blocks ICF over the structural steel studs that would have been necessary for the wall heights saved \$4,000.



877-369-2562 • [info@foxblocks.com](mailto:info@foxblocks.com)  
6110 Abbott Drive, Omaha, NE 68110

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