

# VERMEER PLANT 7



BEC PARTICIPANT

**Vermeer Corporation**



LOCATION

**Iowa**



SECTOR

**Industrial**



## ABOUT THE BUILDING

Vermeer Plant 7, rebuilt and expanded in 2018 following a tornado, is a brightly lit world-class manufacturing space that provides improved air quality and safety. The 507,000-square-foot space within Vermeer’s manufacturing facility contains three paint lines, a manufacturing floor, and break areas with healthy food options. The company’s main challenge involved construction during winter. The cold weather necessitated the use of mechanical fasteners rather than the optimal fully adhered fasteners.

The plant’s walls are constructed from 12-inch-thick concrete and foam precast panels. Pella windows were installed in every wall panel to allow for natural light. The windows are also double-pane insulated with aluminum framing to reduce heat transfer. The plant’s roof is made of metal decking, 5 inches of foam (R-30), half-inch Hardie board, and rubber membrane; this reinforced construction allows for safer walking on the roof. An air diffuser system, designed in-house and patent pending, cools the plant and filters weld smoke and other pollutants. Hazardous waste is either processed for reuse or used for fuel.

## QUICK STATS



BUILDING TYPE

**Warehouse**



SQUARE FOOTAGE

**507,000**



KBTU/YEAR SAVED

**1,784,544**



BEP VALUE

**11.6**



BEP IMPROVEMENT

**20%**



BEC RECOGNITION LEVEL

**Novel 20**

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