

P R O J E C T P R O F I L E

THRIVENT FINANCIAL BANK

2000 Milestone Drive, Appleton, Wisconsin



BUILDING OWNER/OPERATOR

Aid Association for Lutherans

SIZE

31,500 square feet

CONSTRUCTION COMPLETED

April 2002

DESIGN BUILD

Potter Lawson, Inc.

CONTRACTOR

Oscar J. Boldt Construction

PROJECT DETAILS

ENVIRONMENTAL BENEFITS

This building will use 78,000 fewer kWh of electricity and 3,000 fewer therms of natural gas than a conventionally built facility.

Total emissions savings:

- 209,000 fewer pounds of carbon dioxide (CO₂)
- 480 fewer pounds of nitrogen oxides (NO_x)
- 870 fewer pounds of sulfur dioxide (SO₂)
- 38 fewer pounds of carbon monoxide (CO)
- 4.8 fewer pounds of volatile organic compounds (VOC)
- 16 fewer pounds of particulate matter (PM10)

LIGHTING

- Low ambient light levels in offices complemented with task lighting
- Low power density and energy use building-wide
- Daylighting controls and occupancy sensors for perimeter offices
- Occupancy sensors for individual offices and restrooms
- Dual switching on high ceiling accent lighting
- Compact fluorescent for corridors, open office and retail
- State energy code compliance for lighting: 24% better for interior, 42% better for exterior

BUILDING ENVELOPE

- Windows with low-e coating, high insulation and shading coefficient ratings
- Solar shading overhangs and light shelves
- Raised roof in building core surrounded by clerestory windows
- Longer dimension in east-west direction allows daylight to enter most spaces

HEATING, VENTILATING AND AIR CONDITIONING

- Variable air volume (VAV) air handler with hot water heating and chilled water cooling
- High efficiency boilers
- High efficiency domestic water heaters
- Small, high efficiency boiler sized for summer operation
- No electric heating
- VFD heating pumps, "premium efficiency" motors

COMMISSIONING

- High level of equipment testing
- High level of owner/operator training
- High level of design engineer interaction with construction, testing and equipment operation

