

SEMCO Keeps Toledo Walleyes ON GOAL for Opening Season



Timing is everything when it comes to a major urban construction project like the Huntington Center in Toledo, Ohio. Building the 82-foot-high arena in the middle of a busy downtown took a lot of planning, and left no room for error.

■ FACTS

Customer:

Huntington Center in Toledo, USA

Need:

Efficient ventilation solution for the first LEED certified sports arena in the United States.

Solution:

84" diameter double-wall spiral duct and interior duct, air diffusers, volume dampers and accessories.

SEMCO's delivery-upon-demand system was specified for the arena

With the opening season of the Toledo Walleye ice hockey team looming ahead, contractors frequently worked through the night to stay on schedule to complete the facility, which is anticipated to become the first LEED certified sports arena in the United States. Some of the most critically timed constructions occurred before the roof was installed on this 266,000 sq. ft. multi-purpose arena.



Bound on all four sides by downtown buildings, the jobsite left no room for material storage during the primary construction phase. Delivery of steel, brick, piping and other materials had to be carefully timed to arrive precisely as needed.

This delivery-upon-demand system applied to the 84" diameter double-wall spiral duct by SEMCO, was specified for the arena space. This exposed duct loops around the upper part of the arena just a few feet above the top tier seating. To conserve precious vertical space inside the arena, engineers chose to "nest" the massive duct inside the 207-foot-long roof trusses rather than installing it below them. The duct had to be installed in between the trusses in order to leave plenty of clearance for large props and equipment brought in for events like concerts and circuses. The duct was lowered into the truss space by crane before the steel roof decking was installed.

SEMCO provided the entire length of the pre-insulated, double-wall spiral duct as well as interior duct for the perimeter spaces of the arena. The manufacturer customized rectangular saddle taps to fit

inside the round duct. These taps housed the large air diffusers required to direct air all the way to floor level of the arena. The sections of duct were completely pre-fabricated with special flanges located at optimum intervals. The saddle taps were welded per the engineering firm's design. Volume dampers and accessories were also factory installed.

All of the duct was fabricated at SEMCO's manufacturing facility in Roanoke, Virginia and then shipped directly to the jobsite every other day in order to coincide perfectly with the strict installation schedule.

"The material didn't sit in our yard for more than two days at a time," said Kenneth Gabel, Operations Manager for VM Systems Inc, the sheet metal contractor for the project. "SEMCO had a piece-marked drawing and had to fabricate the duct in the exact same order that it was being installed."

"It isn't just about the duct. It's about the accuracy of coordination, quality of manufacturing, and most important the timely delivery of a product guaranteed to fit" said John Gramke, Regional Sales Manager for SEMCO.

SEMCO

SEMCO is a unique indoor environment products manufacturer serving the key disciplines of air distribution, noise abatement, temperature, and humidity control in the commercial and industrial building markets. SEMCO was acquired by Fläkt Woods in 2007.

Fläkt Woods Group

Fläkt Woods is a global company providing solutions for ventilation and air treatment for buildings as well as fan solutions for Industry and Infrastructure applications.

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