




# Vyron Project Profile

## Wilderness Hotel and Resort

Wisconsin Dells, WI

-  Solution – DuctSox
-  Engineer – Kilgust Mechanical - Madison, WI
-  Contractor – Kilgust Mechanical - Madison, WI



DuctSox Fabric Duct and Diffuser Systems have many advantages and benefits, many of which are green and can be helpful in attaining LEED credits. Because the entire DuctSox System is a diffuser, air can be supplied to the occupied space in a more efficient pattern. DuctSox Systems may be designed with fittings similar to metal ductwork, including many standard zippered fittings and unlimited customization to match any application requirements. The cost of a DuctSox System is 20 to 80% less than metal. The cost savings of air porous DuctSox are even more dramatic when compared to insulated/double-wall spiral metal duct or premium materials. There is also considerable savings in the labor time required to install DuctSox versus a comparable metal system. Our fabrics are available in a variety of standard colors and patterns, including custom colors to match any interior decor. DuctSox can personalize your DuctSox System--- advertise your company or school logos, mascots, inspirational sayings, sponsors, or suppliers.

**DUCTSOX**<sup>®</sup>  
Textile Air Dispersion Products

### The Challenges

- Indoor Air Quality issues due to the water, people and required water sanitizing chemicals.
- Reduce or eliminate bodily chills caused by drafts on wet skin.
- Eliminate condensation on the unique Texlon Transparent Roof System



# The DuctSox Solution

- (6) 120-foot long runs of 60" diameter TufTex commercial grade fabric duct have a variety of orifice diameters ranging from 3/4" to 1-1/2" and duct circumference placements. The two 19-foot-high perimeter runs have two linear arrays of orifices directed toward the windows and another array towards the deck. The orifice placements also bathe the Texlon Transparent Roof System in warm dry air.
- With a designed airflow of 75 to 100 feet/min. at the pool deck level, the thousands of orifices engineered into the fabric duct are designed to deliver a gentle airflow to occupants.
- Fabric duct saved the project an estimated \$230,000 in HVAC costs versus the metal duct's higher material and labor costs
- With dozens of competing restaurants in the Wisconsin Dells area, the Wilderness subliminally directs patrons to its own restaurant facilities with silk-screened logos of each venue appearing on the ductwork surface that's in full view of all waterpark patrons.



## Another Satisfied Customer

"Fabric duct resulted in a huge HVAC savings, but equally important was the fact the fast-track project's ductwork installation time was cut nearly in half,"

- Jason Beren, PE, Kilgust VP of Operations

"With no prior fabric duct experience, we were a bit skeptical in the beginning. But we're really pleased how it performs and looks, especially the custom earth tone color that coordinates with the rest of the space. It's designed to resist corrosion so it's really a good choice for this type of space."

- Raymond E. Bolton, AIA, principal, Architectural Design



*"A clever person solves a problem. A wise person avoids it." ~Albert Einstein*