Georgia-Pacific
Gypsum

PROJECT PROFILE

New Orleans Sports Arena

New Orleans, Louisiana

Architect
Arthur Q. Davis FAIA & Partners Architects, New Orleans, LA

Primary Engineer
Walter P. Moore and Associates, Houston, TX

Roofing Contractor
Carrier Stumm, New Orleans, LA

General Contractor
Manhatten Gibbs

Owner
State of Louisiana

DensDeck® Roof Board and Siplast Veral® Chosen for The New Orleans Sports Arena Roof*

Moisture resistance and superior strength properties were two key attributes mentioned regarding the selection of DensDeck® Roof Board as the membrane substrate for Siplast's Veral® modified bitumen roofing membrane utilized on The New Orleans Sports Arena.

This prestigious 18,000 seat facility, built right behind the Superdome, opened in 1999 with a minor league hockey team and the Tulane University Men's basketball team expected to be the primary tenants.

"This roof presented some special design considerations," stated Kirk Hagstatt of Arthur Q. Davis Architects. "Due to the arena's size and the roof's unusual shape, the roof would be highly visible from ground level; therefore, appearance and long-term durability were the most important design considerations." Additionally, designers had to deal with potential severe wind exposures and high exterior relative humidity.

With these challenging parameters in mind, designers combined torched down Siplast Veral and Georgia-Pacific's DensDeck Roof Board to meet the rigorous demands required by this project. The aluminum clad surface of Veral fulfilled the architect's conceptual idea of a uniform rolling surface appearance and DensDeck Roof Board provided a firm, moisture-resistant, and dimensionally stable base to support the roofing membrane.

"The excellent modulus of rupture, high compressive strength, and moisture resistance of DensDeck will enhance roof wind uplift performance," stated T.W. Freeman, a Registered Roof Consultant from Newark, Ohio. "The superior strength of DensDeck provides greater wind uplift resistance and it reduces the chances of board fracture that often occurs at the base of fastener stress plates. This is especially true with a fully adhered torch down application such as this." Additionally, the combination of embedded glass matt surfacing and a water-resistant treated core make DensDeck Roof Board very conducive to adhesion.

Gretchen Dwyer, sales representative for Siplast stated, "The firm of Arthur Q. Davis automatically approves Siplast for all state projects. This is simply because of our track record in the city where many successful long term projects

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exist, such as the Louisiana Superdome. DensDeck was selected on this project due to its excellent strength properties and surface characteristics which allow for direct torching. It is a superior product when these properties are the necessary criteria."

The New Orleans Sports Arena roofing system was installed over a 16 gauge (51 mil) metal deck assembly. After the installation of loose laid 2½" (64 mm) rigid Atlas AC II polyisocyanurate insulation, ¼" (6.4 mm) DensDeck® Roof Board was mechanically attached to the deck assembly with 4½" (114 mm) long OMG standard screws and 3" (76 mm) round ribbed OMG stress plates at the rate of nineteen fasteners per 4' x 8' (1,212 mm x 2,438 mm) board. This fastening frequency exceeds the current DensDeck Factory Mutual 1-90 wind uplift requirement for fully adhered modified bitumen membranes.

Finally, the torch applied aluminum clad Veral® system was installed to provide aesthetics and waterproofing protection. Veral is made up of two sheet components, namely Irex and Veral. The base ply, Irex, consists of a quality high-melt asphalt with random glass reinforcement. The top ply, Veral, combines a woven glass-reinforced, SBS-modified asphalt base with a protective metal foil facing.

The New Orleans Sports Arena roof presented some interesting challenges. Georgia-Pacific's DensDeck Roof Board and Siplast Veral met these challenges. The roof is designed to serve long term as a design element as well as provide protection from the weather.

The roofing contractor, Carrier Stumm of New Orleans, installed 142,000 square feet (13,192 m^2) of DensDeck on this project.

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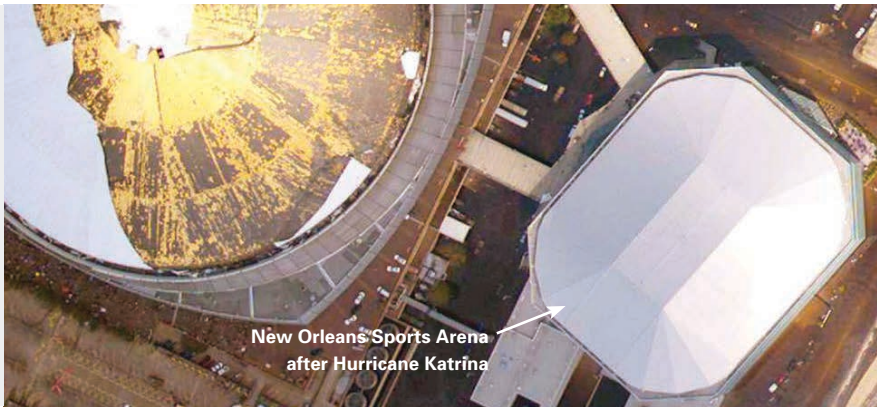
U.S.A.– Georgia-Pacific Gypsum LLC
Canada – Georgia-Pacific Canada LP

Sales Information & Order Placement
U.S.A. **1-855-6GP-DECK (647-3325)**

CANADA Canada Toll Free: **1-800-387-6823**
Quebec Toll Free: **1-800-361-0486**

Technical Information
Georgia-Pacific Gypsum Technical Hotline
U.S.A. and Canada: **1-800-225-6119**
www.DensDeck.com



New Orleans Sports Arena after Hurricane Katrina

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