

Project Profile



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 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

New Orleans Sports Arena New Orleans, Louisiana

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

Primary Engineer: Walter P. Moore and Associates,
Houston, Texas

Roofing Contractor: Carrier Stumm,
New Orleans, Louisiana

General Contractor: Manhattan Gibbs

Owner: State of Louisiana



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 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 metal deck assembly. After the installation of loose laid 2½” rigid Atlas AC II polyisocyanurate insulation, ¼” DensDeck

was mechanically attached to the deck assembly with 4½” long Olympic standard screws and 3” round ribbed Olympic stress plates at the rate of nineteen fasteners per 4’ x 8’ 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 of DensDeck on this project.

For more information about fiberglass mat gypsum building products from Georgia-Pacific Gypsum, and for copies of product warranties, contact your GP representative or visit www.densdeck.com.



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South: **1-800-327-2344** Northeast: **1-800-947-4497**

CANADA Canada Toll Free: **1-800-387-6823**
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Georgia-Pacific Gypsum Technical Hotline
U.S.A. and Canada: **1-800-225-6119**
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