



NEW MILLENNIUM
BUILDING SYSTEMS
Building a better steel experience.



APPLICATION NOTES

August 16, 2016

Natatorium ceiling solves 3 design challenges

Denver-based architectural firm, Sink Combs Dethlefs had a vision for their natatorium project. To minimize costs, they wanted the Wall Aquatic Center to feature a spacious interior with an exposed structural ceiling. No acoustical drop ceiling would be incorporated into the design. This presented three distinct challenges: acoustics, corrosion, and overall aesthetics. They needed a building system that would address all three challenges, while meeting the primary objective of holding down the total cost of the project.

Versa-Dek® LS Acoustical provides a finished aesthetic appearance that does not require a secondary ceiling. Versa-Wedge® hangers were used to attach the lighting system directly to the ceiling.



A sound recommendation

To address all project design requirements, New Millennium recommended a long-span acoustical steel deck solution for the natatorium ceiling. Versa-Dek® acoustical steel decking provides a .95 noise reduction coefficient. The 3.5-in. deep system features a dovetail profile with factory-integrated and sealed acoustical batting.

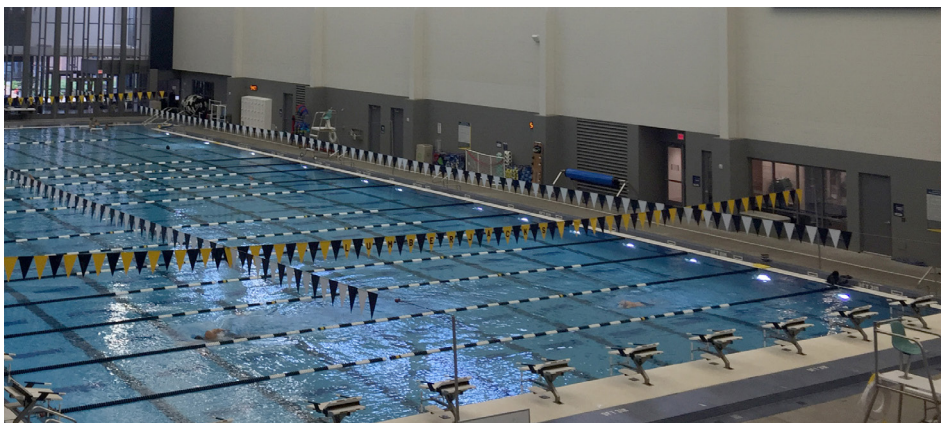
Sealing off corrosion

The architectural deck is galvanized G90 steel protected by a factory-applied three-coat paint system. Aliphatic polyurethane, which offers a semi-gloss appearance, was applied over the primer and secondary coat. The system also includes a polyester coating on the unexposed side to mitigate degradation. Corrosion-resistant fasteners with neoprene washers complete the solution.

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The factory-finished joists provide support for the HVAC ducts that outline the perimeter of the natatorium.



Making an aesthetic splash

New Millennium collaborated with the structural engineer to assure that the 12-ft. architectural steel deck panels were properly fastened using shot-pinned connections and screwed side laps. This prevented welding damage to the factory finish. The dovetail deck profile concealed the fasteners and the exposed, lineal plank deck ceiling presents a strikingly spacious interior.

The Wall Aquatic Center at Northern Arizona University in Flagstaff is now one of the newest and most attractive high-altitude swimming facilities. At 7,000 ft. above sea level, the pool is a world-class facility with the ability to convert to Olympic size competition.

Natatorium features:

- Two 1-meter diving boards
- Two 3-meter diving boards
- One 13-ft.-deep diving tank
- Six 25-meter lap lanes
- Eight 50-meter lap lanes
- One therapy pool area

Determine the right system for your project

New Millennium advises architects and structural engineers on today's expanded range of steel building system options. Recommendations are guided by the design intent of the architect and by the building owner's need to minimize total project costs over the life of the building.



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