



When the Diocese of St. Paul and Minneapolis began its two-year, \$35 million restoration of the Cathedral of St. Paul, the design parameters for the cathedral's roof areas were to achieve the absolute maximum design life possible. That's why Hydrotech's Monolithic Membrane 6125® was chosen to play an important role in this intensive historical preservation project.

St. Paul's was built in the early 1900s, designed in the Classical Renaissance style and adapted from the original plan of St. Peter's Basilica in Rome. After 86 years, its 175-foot tall copper dome and other roof areas needed complete restoration, including the lower transept roofs, which had been retrofitted repeatedly over the years due to ice falling from the dome and damaging the lower flat roofs.

According to Roof Spec, Inc.'s Senior Roof Consultant Terry Athone, the design team determined that a paver-ballasted PMR (Protected Membrane Roof) system would provide the optimum surface for these roof areas. "However, we needed the waterproofing to be extremely strong, flexible, and have a redundancy in the application - a 'belt and suspenders'. To provide this, we chose Hydrotech's fabric reinforced MM6125®."

The highly viscous MM6125, applied to the cathedral's concrete decking at 215 mils, created a seamless reinforced membrane, forming a long-lasting, tenacious bond to the new substrate and conformed to any deck irregularities. MM6125 is self-healing and can withstand and perform in submersed water conditions. High quality Hydrotech architectural pavers now serve as the roofs' finished surface. Athone says that the team is confident that the new roofs will meet the project's stringent performance design criteria. "We have enough faith in this application that it will last as long as our new copper dome."

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## Cathedral of St. Paul

St. Paul, Minnesota

Owner  
Catholic Diocese of St. Paul and Minneapolis

Architect  
Miller Dunwidde Architects

General Contractor  
McGough Construction

Roofing Consultant  
Roof Spec, Inc.

Roofing Contractors  
Dalco Roofing & Sheet Metal, Inc.  
John A. Dalsin & Son, Inc

Hydrotech Applicators  
Dalco Roofing & Sheet Metal, Inc

Year Completed  
2002

Waterproofing/Roofing Area  
9,000 S.F. Roofing

Hydrotech Products  
Monolithic Membrane 6125®  
Ultimate Assembly®



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