SUSTAINABLE ROOFING PIONEERS

AMERICAN HYDROTECH

The venerated Chicago-based brand's flair for durability carries it into another generation of fruitful longevity

By Vincent Caruso

FACING PAGE MM6125 membrane has been protecting the parking structure underneath reflecting pond at the First Church of Christ Scientist in Boston continually since 1971.

nection to the capacity for architectural experts to map out the most desirable

eco-conscious constructions for their

clients and the natural environment

alike. From another perspective, it is

an industry rooted firmly in pragma-

tism, embracing proven techniques and

methodologies-using these models as a

would be American Hydrotech's long-cel-

template to expand upon and polish as

needed. A noted example of the latter

ebrated Monolithic Membrane 6125, a

roofing membrane that literally turned

the traditional model upside-down. We

caught up with **Dennis Yanez**, American

Hydrotech national marketing director,

to learn more about the significance of

this time-honored sustainable roofing

gb&d: American Hydrotech has been in business since 1977, and your most cele-

brated product is the classic Monolithic

Membrane 6125. What were the factors

Dennis Yanez: Monolithic Membrane

products division in the early 1960s at

was developed by **Uniroyal**'s construction

the request of the Canadian government. They were looking for a bridge decking

waterproofing product that could be ap-

plied at low temperatures and withstand

the test of time. Over the years, American

Hydrotech has adapted this product for a

variety of configurations: reflecting pools,

plaza waterproofing, roofing, and, most

recently, vegetated roofing (Hydrotech's

gb&d: What inspired Dow Chemical's

experiment of reversing the insulation and

the membrane that produced the results ex-

hibited by the Monolithic Membrane 6125?

Garden Roof Assembly).

that ultimately led to the development of



Yanez: Dow was looking for additional applications for Styrofoam brand Extruded Polystyrene rigid board insulation. Again, developed initially for cold weather markets, the Insulated Roof Membrane Assembly (IRMA) typically referred to today as a Protected Membrane Roof (PMR) was tested and deemed to provide outstanding performance by the **Army** Corps of Engineers in the early 1970s.

gb&d: What sets the composition of the Monolithic Membrane 6125 apart from that of its competitors? How does it represent a significant evolutionary leap in sustainable architecture?

Yanez: Monolithic Membrane 6125 not only has a unique formulation that gives it unmatched performance and workability, but that same original formulation is still in use today. The membrane is comprised of asphalt, synthetic polymer, oil, rubber crumb, and clay. Sustainable architecture by definition is long-lasting. MM6125 has a proven track record of longevity, keeping structures watertight for 50+ years. If that doesn't meet the definition of "sustainable," what does?

gb&d: What are some noteworthy examples of the Monolithic Membrane 6125 applied to architectural projects?

Yanez: MM6125 has been entrusted with keeping high profile structures across the country and around the globe watertight for more than 50 years. Unique applications include the reflecting pool at the First Church of Christ Scientist in Boston, where the membrane has been performing in a continually submerged condition since 1971, to roofing the former Pac Bell Headquarters in San Ramon in 1983.

epitome.

this product?

ABOVE After 32 years, the former Pac Bell Headquarters Protected Membrane Roof still performs today like the day it was installed.

gb&d: How long has American Hydrotech been in the business of sustainability? What are some of the ways that this priority is translated through the Monolithic Membrane 6125?

Yanez: In 1996, when American Hydrotech brought over technologies from Germany to launch the Garden Roof Assembly, the first single source warranty vegetated roof assembly in the US. It was a significant investment of time, resources and money in bringing sustainability to the architectural and design community. In the early days of marketing the Garden Roof Assembly, there were many blank stares back at us when we suggested keeping water on the roof to support plants. Fast forward 19 years, and vegetated roofs are a common and accepted design principal, but it was some tough uphill sledding to get architects to embrace the concept.

gb&d: What are some of the environmental advantageous to be gained from employing the Garden Roof Assembly?

Yanez: Replacing the impervious surface of a conventional roof with a vegetated roof can help to substantially reduce stormwater runoff and help to restore the balance with nature in our urban centers. Reducing the Urban Heat Island Effect, re-creating natural habitats for various insects and animals, and a reduction in dust and smog levels are additional environment benefits from installing a vegetated roof. gb&d