



Teranap Green Roofing and Waterproofing Systems



The high performance solution for green roof and plaza deck applications.



▲ Siplast Teranap was installed on this automobile manufacturing facility in Michigan, creating the largest green roof in North America.

The green plaza deck of this Connecticut office building is protected by Siplast Teranap and pavers. ▼



Innovation

In Europe, use of urban spaces has been a key consideration in building design for decades, due to space constraints and centuries-old city layouts. Architectural designs incorporating plaza decks are often used to maximize space utilization and provide appealing pedestrian areas. In the 1970s, environmental awareness began to grow, and so did the use of green roof systems as a way to manage environmental impact. Of course, both plaza deck and green roof applications create significant waterproofing challenges.

That's why, over 35 years ago, Siplast Research and Development took their pioneering SBS-modified bitumen technology and applied it to the design of a waterproofing membrane for plaza deck and green roof applications: Teranap.

Products

The torch-applied, two-ply Teranap System is based on our proven roof membrane design. The elastomeric base ply, Terabase, is engineered to retain its elasticity through the rigors of deck movement. The top ply, Teranap, consists of a nonwoven polyester mat impregnated and coated with SBS-modified bitumen. The surface of the sheet is protected by a polyester film.

Rolls of Teranap are 2 meters wide and 20 meters long. This coverage means a significant reduction in the number of seams as compared to projects using conventional modified bitumen waterproofing products. Teranap is also available in a 1-meter width for applications where a smaller roll is more practical and convenient, such as set-back roofs and high-rise projects. Because Teranap is torch-applied, no special kettle or unusual application equipment is required, and cold weather presents fewer application restrictions. Application of a Teranap system can be completed in phases, allowing greater scheduling flexibility.

With fewer seams, and enhanced flexibility, elasticity, and puncture resistance, the Teranap Waterproofing System provides maximum protection from mechanical and construction abuse.

Quality

Like all of Siplast's SBS-modified bitumen membranes, Teranap is produced to exacting standards. Our raw materials are consistent, our formulation is consistent, and our blending processes are consistent. That means our products are consistent – guaranteed.

At the Siplast state-of-the-art North American roofing manufacturing facility, stringent quality control tests are performed on every lot of material we produce to ensure Siplast products meet specified criteria important to the performance of waterproofing products.

Application

Siplast Teranap Systems are installed exclusively by Siplast Select Contractors. These independent professionals have met the qualifications of the toughest contractor certification program in the industry – ours. Their proven skill and dedication have demonstrated time and again that they regard themselves as members of a team dedicated to installing great waterproofing systems for their building owner customers.



Surfacing Options

The Teranap Waterproofing System can be specified with surfacings for both plaza deck and green roof applications.

Teranap Plaza Deck

Teranap protects some of the world's most well-known plazas. It can be installed with a wide variety of overburdens, including pedestal/paver systems, poured concrete, road asphalt, and mortar and pavers.

Siplast offers all of the components necessary to create a complete plaza deck system, including drainage mat, Insulperm Geofoam Extruded Polystyrene, and a full line of pedestals and decorative architectural pavers.

Teranap Green Roof

Teranap green roof applications can be specified with many landscape options, including both extensive green and intensive green assemblies. Teranap Extensive Green Roofs are characterized by low weight, low capital cost, and minimal maintenance. The growing medium is typically composed of a mineral-based mix of sand, gravel, crushed brick, leica, and peat organic matter. In an extensive system, soil varies in depth from 2 to 6 inches, and weighs 13-18 lb/sq ft dry and 20-25 lb/sq ft saturated. Plant selections appropriate for extensive assemblies include sedum, grasses, wildflowers, and other low maintenance vegetation. Plants are watered and fertilized until they are established. At that point, minimal maintenance is required.

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Siplast Lightweight Insulating Concrete, Teranap and pavers create a beautiful and functional plaza deck on this mixed use building in Florida.



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Teranap Intensive Green Systems are used to waterproof elaborately designed roofscapes that are intended for pedestrian access. In an intensive system, soil depth starts at 8 inches. Therefore, a more diverse plant selection, including trees and shrubs, is possible. The weight of intensive systems starts at approximately 50 lb/ sq ft, so they must be engineered to conform to structural load requirements. Intensive green systems require regular maintenance and watering.

Siplast offers all of the components required for green roof installations, including filter fabric, drainage mat, soil, Insulperm Geofram Extruded Polystyrene, and vegetated growing systems.



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Cover Photo:

New York's Jacob K. Javits Convention Center features a 5,000-square green roof assembly that includes Siplast NVS Lightweight Insulating Concrete, Paradiene 20 HV TG, Teranap, pavers, and Paraguard Coping.



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For information on Siplast Roofing and Waterproofing Systems, scan our QR code.

Teranap Extensive



Teranap Intensive

