



Sarnafil Plaza Deck Systems



Sarnafil®



▲ JFK Library and Museum, Boston, MA



Sarnafil Milestone Management
 The Sarnafil Milestone Management™ process is the key to a successful installation. From specification to installation, our “hands on approach” is designed to make any project an easier task for you. Here’s how we help make the process go smoothly:

Proven Materials
 A high quality membrane is the key to any successful roofing or waterproofing project that demands absolute system integrity. With that in mind, Sika Sarnafil’s manufacturing process uses only the highest quality materials to produce a monolithic, non-laminated membrane that offers excellent weatherability and dimensional stability.

Expert Assistance
 Our skilled technical experts make Sika Sarnafil stand apart from other manufacturers. We’re involved at each major milestone – offering design assistance to architects and specifiers if needed, reviewing Notice of Award documentation, and training authorized applicators in the classroom and at the job site.

Skillful Workmanship
 Unlike most other roofing and waterproofing manufacturers, Sika Sarnafil does not sell through distributors. Instead, we sell directly to a select group of trained, authorized applicators – only the best are invited to join our team. Maintaining strict control over the installation process means that Sika Sarnafil quality is carried through from start to finish.

Waterproofing. Protect your investment.

You are an architect, a designer or a building owner, and you have a building to protect. If this building is like most, it has critical areas inside the building that must be protected from the damaging effects of water, moisture or other contaminants. If these areas are covered with overburden such as earth, landscaping and pavers, it can be a challenge to remove the overburden and determine the cause should a leak occur. As a result, one of the most important decisions you have to make is the waterproofing system.

◀ On the cover:
 H.H. Dow Academy
 Midland, MI

Without proper waterproofing it is a question of when, not if, water infiltrates the structure. Structures move and settle with time. Structural movements or deficiencies cause cracks and openings in the structure. The cracks and openings create a pathway for water and moisture to enter the building. Water infiltration not only affects the usage and value of a building, but also has the potential to propagate mold and fungus growth. A building owner can be faced with future repairs and mitigation actions that could cost thousands. Because of this, it is important to not only waterproof your building, but to choose a waterproofing manufacturer whose performance history speaks for itself.

Sika Sarnafil. Waterproofing integrity.
 Sika Sarnafil has earned the reputation as the most trusted name in waterproofing. Architects, specifiers and building owners choose Sika Sarnafil waterproofing systems for applications that demand absolute system integrity and watertight security. For over 40 years our waterproofing systems have provided protection against water infiltration on many of the world’s most valuable building and civil engineering structures. With over 15 billion square feet of roofing and waterproofing membrane installed worldwide, you can depend on Sika Sarnafil for proven products and system performance.

Sika Sarnafil manufactures a variety of thermoplastic waterproofing membranes designed to provide long-term durability and watertightness for varying building and civil engineering applications and conditions. Our Sarnafil G476 membrane is the key component to the success of our waterproofing systems.

Sika Sarnafil has been using the same basic formulation in its manufacturing process for over 40 years. This durable thermoplastic membrane is designed to remain watertight in the extreme conditions of buried environments including constant dampness, ponding water, high and low alkaline conditions, exposure to plant roots, fungi and bacterial organisms.

Sarnafil G476 membrane is available in a range of thicknesses to match the application, overburden type and your specific project requirements. Highly puncture resistant, its bright orange surface color makes it easy to identify and inspect to maintain high levels of quality assurance and control during construction.





Plaza Deck Waterproofing

Plaza decks are located at or above grade level. They are public areas accessible to pedestrians and in some cases vehicles. They may cover valuable commercial or office space, storage or mechanical areas, or parking.

Plaza decks are waterproofed to protect the structure, their occupants and the property beneath them from water and moisture penetration.

Plaza decks require special attention since they may hold water for a period of time after precipitation, and the waterproofing system is buried under the overburden making repairs challenging and costly.

Choosing the right waterproofing system is one of the most important decisions you will make on your project.

The right waterproofing system should:

- **Provide Factory Controlled Membrane Thickness** – Sheet waterproofing membranes are manufactured in a controlled environment, eliminating

thickness variations found in field-applied systems. Thin spots can lead to a premature failure in the waterproofing system.

- **Accommodate Building Movement** – Waterproofing systems need to be flexible enough to withstand structural and thermal movement, and versatile enough to provide design options for each application.
- **Perform in Ponded Water Conditions** – Decks will hold water. The waterproofing membrane must withstand ponded water and constant damp conditions.



- **Resistant to Roots and Decay** – Roots are very aggressive and can penetrate some types of waterproofing materials. The waterproofing system must be resistant to roots and should not deteriorate in damp environments.
- **Puncture Resistance** – Waterproofing membranes must be tough and highly puncture resistant to withstand potential damage during and after installation. Protection layers will provide protection, but there will be times during the construction process when the waterproofing membrane will not be covered.

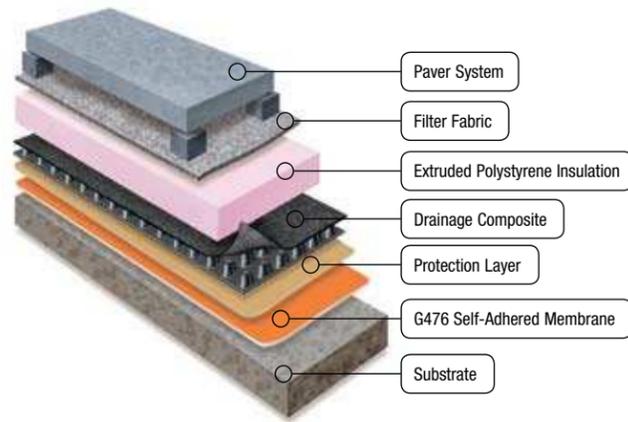


- **Secure Seams** – Sheet membranes are seamed together in the field to form a continuous waterproofing barrier. The seams must be the strongest part of the system, not the weakest.
- **Proven Performance History** – Make sure the company behind the waterproofing system has a history of proven performance on projects similar to yours. Sika Sarnafil waterproofing systems meet and exceed these requirements. Sarnafil G476 membrane provides long-term durability and high puncture resistance. This durable thermoplastic membrane is compounded

▲ Chase Tower Plaza, Dallas, TX

to remain watertight in extreme conditions including constant dampness, ponded water, high and low alkaline conditions, exposure to plant roots, fungi and bacterial organisms. It also is extremely flexible and able to conform to even the most difficult of details. Sarnafil membrane seams are hot-air welded, a key factor to the success of our waterproofing systems.





Adhered System

When your building demands absolute system integrity with maximum watertight security, Sika Sarnafil's adhered system is for you. The system consists of the robust G476 Self-Adhered (SA) membrane, a composite sheet comprised of the heat-weldable G476 waterproofing membrane with a closed-cell foam backing. The foam backing is factory-coated with a pressure sensitive adhesive and is protected by a plastic release liner which is removed during installation.

Sarnafil G476 SA combines the time-tested, proven performance of Sarnafil G476 waterproofing membrane with the added security of an adhered sheet system. G476 SA provides 'peace of mind' for specifiers and owners who value the benefits of an adhered system and thermoplastic technology.

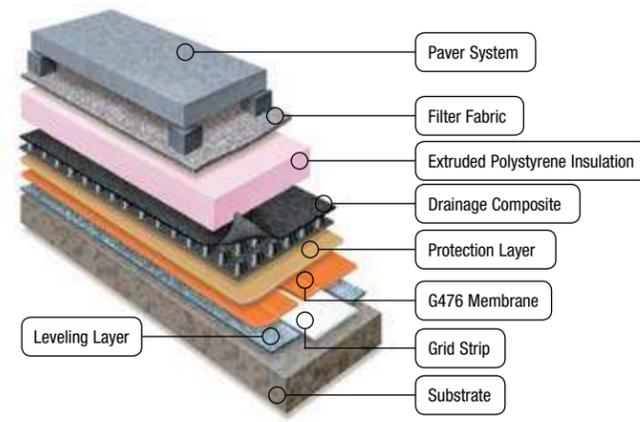
The flexible foam backing layer conforms to minor irregularities in the substrate and provides a cushion for the G476 waterproofing membrane. The pressure sensitive adhesive provides a tenacious bond to the substrate mitigating potential water migration under the membrane. The integration of G476

membrane with a foam backing layer and pressure sensitive adhesive eliminates the need for a field installed separation layer and adhesives. This 'all-in-one' product increases applicator productivity and helps keep the project on schedule. Sarnafil G476 SA also doesn't require hot asphalt kettles or flammable adhesives. This improves worker and job site safety.

Sarnafil G476 SA is best suited for new construction. It can also be used on certain renovation projects where the old waterproofing system can be removed completely, or where a new concrete topping slab is placed over the structural deck.

Advantages:

- Robust, factory-manufactured composite sheet
- Mitigates water migration under the sheet
- Reduces the risk of expensive removal and replacement of overburden
- Heat-weldable laps



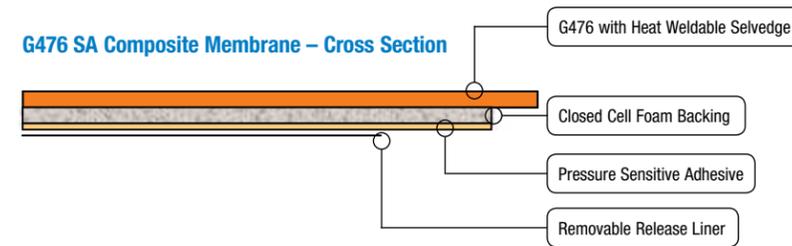
Grid System

For renovation projects where the substrate is contaminated or removal of the existing waterproofing is not practical, Sika Sarnafil offers the grid system. The grid system combines all of the advantages of a loose-laid membrane installation with the added security of adhered membrane grid strips. The grid strips compartmentalize the waterproofing system into smaller areas effectively limiting the scope of overburden removal if a problem develops.

Advantages:

- The adhered grid strips act as a sub-membrane waterstop to compartmentalize the waterproofed areas and limit overburden removal if a problem develops
- Optional control drains can be installed in each grid area as an active monitoring and alerting mechanism. The drain opening can be used as an injection port to facilitate repair without overburden removal
- The grid system can be installed economically over existing waterproofing with minimal deck preparation and removal of the existing waterproofing system

G476 SA Composite Membrane – Cross Section



▲ St. Louis Children's Hospital, St. Louis, MO

More Sika Sarnafil Benefits



Partners Club

Sika Sarnafil sells directly to a limited group of authorized applicators assuring only trained, qualified contractors install our systems. Every applicator is trained on system installation and assisted as necessary during projects by our technical specialists. Only the best applicators are invited to join our team, your assurance of a quality installation.

Quality Assurance

Quality assurance is the key to a successful project. Sika Sarnafil offers on-site monitoring and inspection programs to building owners who want active involvement from the waterproofing system manufacturer. Sika Sarnafil has nearly 50 years experience in waterproofing applications and can assist the owner in achieving maximum performance.

Root Resistance

Many waterproofing membranes are not resistant to root penetration. They fail, often prematurely, due to root infiltration into the field seams and flashings. Our Sarnafil membranes are inherently root and algae resistant and do not require additional root barriers. Sarnafil membranes have passed the most stringent European tests for root resistance including both the German FLL and the Swiss SIA 280 standards. The FLL standard test exposes the waterproofing membrane to 2 years of accelerated root growth.

Hot-Air Welded Seams and Flashings

Faulty seams and details are a common source of leaks in waterproofing systems. Some waterproofing membranes use sealants, adhesives or tapes to secure the seams, but because the Sarnafil membrane is thermoplastic, seams and flashings are welded together using Sika Sarnafil's automatic hot-air welder, the Sarnamatic. When welded together, the sheets of membrane become one monolithic layer of material impervious to water and moisture infiltration. In fact, hot-air welded seams are even stronger than the membrane itself and will last at least the duration of the system.

Warranty Options

Sika Sarnafil offers two types of warranties, consisting of 5, 10, 15 and 20 year durations:

- Waterproofing Membrane Only (Material)
- Waterproofing Labor and Material (Standard)



Sika – Your Local Partner with a Global Presence

Sika is a globally active company in the specialty and construction chemicals business. It has subsidiary manufacturing, sales and technical support facilities in over 70 countries around the world.

Sika is THE global market and technology leader in waterproofing, sealing, bonding, dampening, strengthening and protection of buildings and civil engineering structures.

Sika has more than 10,000 employees worldwide and is therefore ideally positioned to support the success of its customers.



Quick Reference Guide

Sika Sarnafil Waterproofing Systems provide...

Proven performance

- An industry veteran that has produced billions of sq. ft. of membrane since 1964
- The same basic membrane formulation that has protected buildings for more than 40 years
- Material that consistently ranks as the highest quality thermoplastic membrane in independent testing

Watertight integrity

- Permanent watertight flashings and details with hot-air welded seams
- The Sarnafil G476 membrane is designed for buried environments such as constant dampness, ponding water, high and low alkaline conditions, exposure to plant roots, fungi and bacterial organisms

Milestone Management

- *Proven Materials* – Sika Sarnafil's manufacturing process uses only the highest quality materials to produce a monolithic membrane that offers excellent waterproofing and dimensional stability
- *Expert Assistance* – We're involved at each major milestone, offering design assistance to architects and specifiers if needed
- *Skillful Workmanship* – We sell directly to a select group of trained, authorized applicators—only the best are invited to join our team

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Please consult the Product Data Sheet prior to any use and processing.

ISO 14001: 2004-Compliant

