

# Firestone

## PondGard™ EPDM



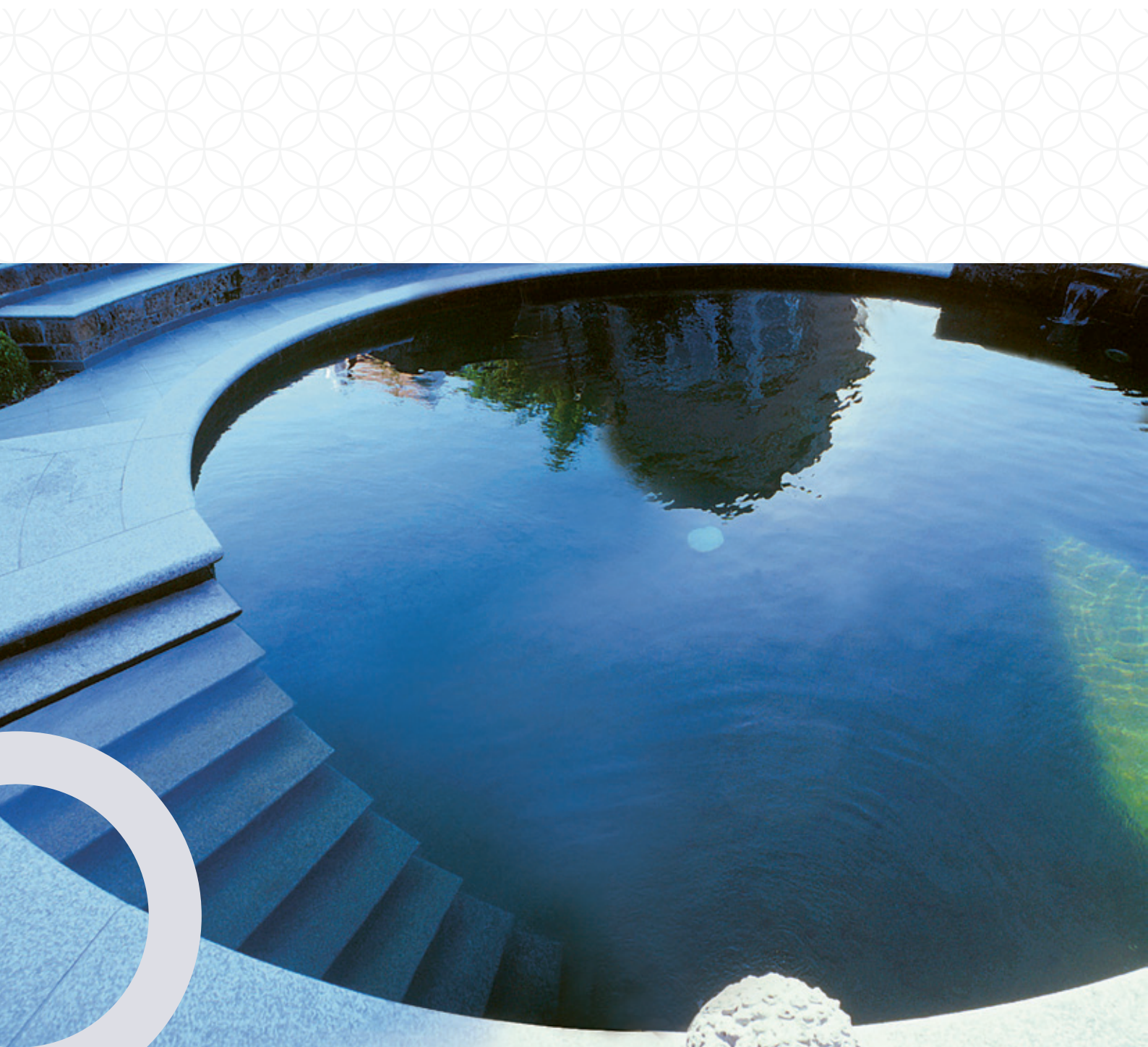
*Lining for life™*

## A support to creativity

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From time immemorial, man has been attracted to water. The installation of a water feature in a private garden or in a public place is a source of pleasure, relaxation and serenity. The integration of water in the living space has always

been a source of inspiration for architects and landscapers. It is now over 40 years that they trust Firestone membranes to realize their creations. Firestone PondGard is a simple, robust and durable waterproof solution.







## Over a century of experience in rubber technology

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In 1903, Harvey S. Firestone founded the Firestone Tire & Rubber Company manufacturing tires for the first mass-produced automobiles in America. In the decades that followed, Firestone expanded to become a worldwide organization developing diversified rubber products.

Today, the Firestone brand is internationally known as a symbol of quality rubber products, innovation and leadership.

**Firestone**



# The obvious choice

## Exceptional longevity

Firestone PondGard is a high quality EPDM synthetic rubber waterproof membrane designed to withstand the test of time. Its excellent resistance to UV exposure, high temperatures, oxidation and frost allows the Firestone PondGard membrane to retain its mechanical properties for countless years, even when exposed to the weather. Projects installed over 40 years ago are still functional and are therefore living proof of this durability.

## Flexible and elastic

Firestone PondGard works well on all kinds of support. It adapts to the creativity of designers, regardless of the complexity of the pond, with optimal aesthetic results.

## Robust

With a thickness of 1.0 mm, Firestone PondGard is a robust membrane with mechanical properties that are perfectly adapted to the challenges related to water storage. Its elasticity (> 300%) and flexibility (even at -45°C) allow it to adapt to the inevitable movements of the support and to the irregularities of the substrate (excellent puncture resistance) throughout its life.

## Quick and easy installation

The installation and assembly of the Firestone PondGard membrane are extremely simple and allow for a perfect finish. The Firestone accessories and the membrane's flexibility allow sealing even the most intricate details. No machine is required and the number of seams is limited in view of the large dimensions of the panels (from 93 m<sup>2</sup> up to 930 m<sup>2</sup>). Even after many years of use, Firestone PondGard membranes can be reassembled in case of any adjustment or repair of the pond.

## Environmentally friendly

Thanks to its chemical inertness and resistance to algae and micro-organism, the Firestone PondGard membrane does not release chemicals into the environment. Tests carried out by the Water Research Centre in the United Kingdom (WRc) show that it is not hazardous to aquatic fauna.









# Residential decorative ponds, Koi ponds

Listening to the sound of water,  
watching the aquatic life, enjoying the  
beauty of the lilies in bloom...

Many features can add pleasure to a  
garden, regardless of its size.

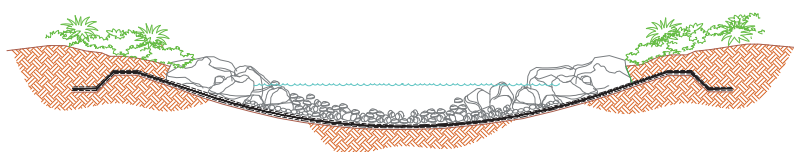






## Streams, Waterfalls, Fountains

Robust and flexible, the Firestone PondGard membrane is the ideal support for reproducing a natural landscape.



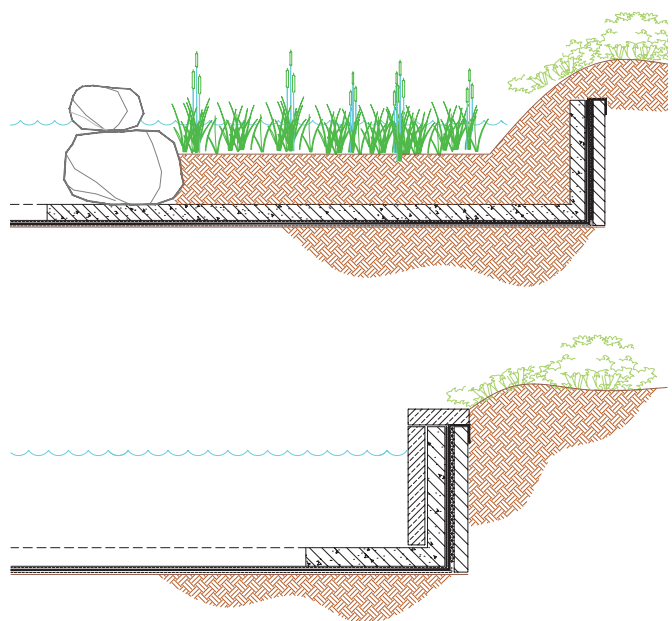


## Commercial decorative ponds

The installation of a water feature as part of a shopping center or close to offices or homes, is gaining interest as a place of encounter and exchange.















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## Reflection ponds

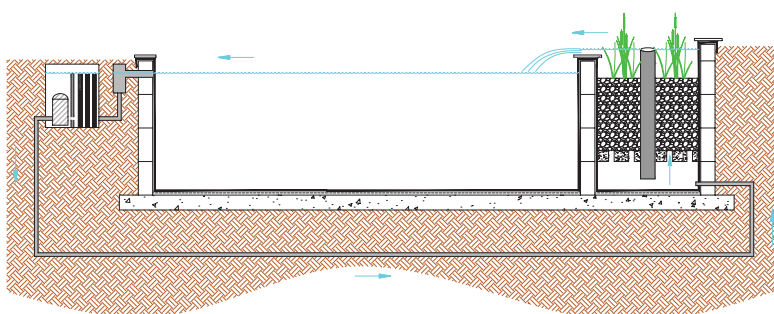
Reflection ponds magnify the adjoining buildings by strengthening their presence and creating unexpected light effects. Depending on their location, they also help to reduce the risk of vandalism and increase the safety of the building.





## Natural swimming pools

Water treatment takes place naturally by means of specific plants and micro-organisms present in the filtration area. Firestone's authorized distributors are able to help you choose the water treatment and pumping system best suited for your project.







## Swimming ponds

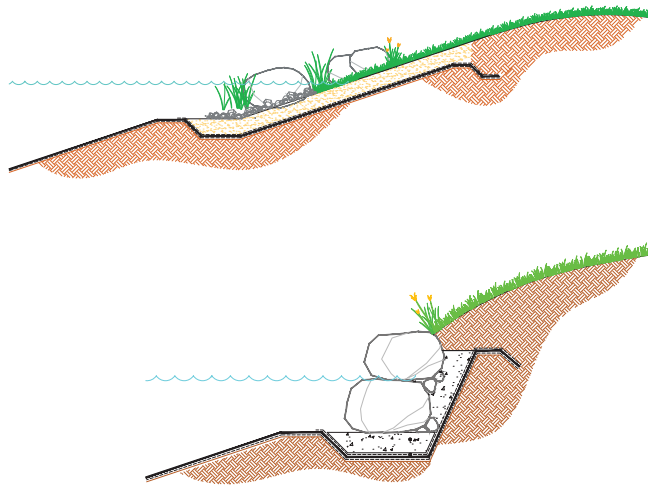
Swimming in clear water, free of chemicals, is a unique experience. The pond is perfectly integrated in the garden. It becomes a new living space for the flora and fauna and is a delight for swimmers.





## Artificial lakes

Firestone has developed many detailed drawings that present solutions giving a natural appearance to the water feature and ensuring their integration into the landscape.







## Golf course ponds

A guaranteed sustainable and optimal aesthetic result makes Firestone PondGard the membrane of choice for installing ponds in the most prestigious golf courses around the world.









## Leisure parks

Puy du Fou, in Western France, was named “World’s Best Amusement Park” in 2012 by industry professionals from the Themed Entertainment Association. The park owes its success to a team

constantly in search of improvements. That is why since 1997, Puy du Fou trusts the Firestone PondGard membrane for waterproofing ponds with very complex technical and aesthetic requirements.

Other prestigious amusement parks, including Legoland Malaysia, Europa-Park (Germany), the Toronto Zoo (Canada) and the Futuroscope in Poitiers (France) have also trusted Firestone PondGard as their membrane of choice.





## A technical solution

### Mechanical properties

- Thickness: 1.0 mm
- Weight: 1.25 kg/ m<sup>2</sup>
- Shear strength: 9 N/ mm<sup>2</sup>
- Elongation at break: > 300 % (elastic behavior)
- Puncture resistance: 600 N and displacement > 100 mm
- Flexibility in low temperature: -45°C
- High friction angle: 27.5°

### Installation system

Firestone has developed a complete waterproofing system that makes the assembly and details easy, safe and durable.

Inside and outside 90° cut corners can be easily made watertight with the Firestone EasyCorners, which are prefabricated corners made of vulcanized EPDM. They are used in combination with the Firestone EasySealant, a superior quality sealant-adhesive that ensures a strong and durable watertight connection with the EPDM membrane.



## A wide variety of roll sizes

Standard lengths (m)	Standard widths* (m)	Thickness (mm)
30.50 – 61.00	3.05 – 3.66 – 4.27 – 4.88 – 6.10 – 7.62 – 9.15 – 10.97 – 12.20 – 15.25	1.0

*\*Not all standard widths are available in all lengths.*

*The availability of the widths and lengths of the panels may vary depending on the country.*



## Marking and certification

### Traceability

A specific marking on the product allows identifying and tracing the Firestone PondGard membrane. The marking, composed by a 7-digit serial number, product name (PNDG), material type (EPDM) and Firestone logotype ensures the product's authenticity.

### International certifications

The Firestone PondGard membrane has obtained the CE marking, showing that it meets current European requirements for safety, health, environment and consumer protection.

Firestone has also obtained the ISO 9001 and ISO 14001 certifications, which are a reflection of Firestone's

commitment to quality and to the environmental management of its factories.

As part of these certifications, regular controls are made in Firestone factories to check the production process, monitoring quality controls and the finished product. As a result, Firestone can ensure that its PondGard membrane is of consistent high quality.



## PondGard official partners and installers

Firestone is represented worldwide by a network of Official Partners specialized in the field of decorative ponds. They are able to provide a complete solution for all elements of the pond (pumps, filters, decorative

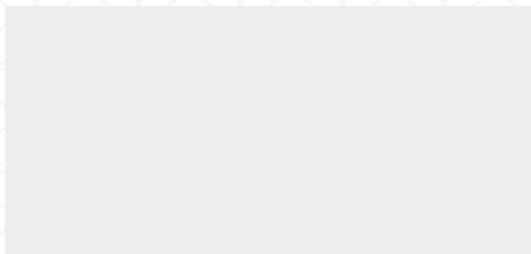
elements, etc.). Their technicians, trained at technical seminars conducted by Firestone, and their network of Official Installers guarantee a quality installation.





Firestone Building Products

**For further information, please contact your  
local Firestone PondGard™ EPDM distributor:**



This brochure is meant only to highlight Firestone's products and specifications. Information is subject to change without notice. All products and specifications are listed in approximate weights and measurements. For complete product and detail information, please refer to the technical information posted on [www.firestonebpe.com](http://www.firestonebpe.com). Firestone takes responsibility for furnishing quality materials which meet Firestone's published product specifications. As neither Firestone itself nor its representatives practice architecture, Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the owner should obtain opinions of competent structural engineers before proceeding. Firestone accepts no liability for any structural failure or for resultant damages and no Firestone Representative is authorized to vary this disclaimer.

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