

Firestone PondGard™ membrane (1.0 mm)

1. Description

The Firestone PondGard™ 1.0 mm (.040") liner is a cured single-ply synthetic rubber membrane made of ethylene-propylene-diene terpolymer (EPDM). It is available in a variety of panel sizes. Depending on the dimensions of the liner, the waterproofing surface may be seamless (up to 930 m²). In other situations, seams can be made using a self-adhesive tape.

Because of its specific formulation and production process, **only the Firestone PondGard is guaranteed to be compatible with aquatic life** in accordance with testing reports published by the Water Research Centre in the UK.



2. Preparation

Product: Allow the membrane to relax for approximately 30 minutes before splicing.

Substrate: The substrate needs to be smooth, dry and free of sharp objects, oil, grease and other materials that may damage the membrane.

3. Application

Install the Firestone PondGard in accordance with current specifications and details.

4. Coverage

The dimensions of the Firestone PondGard are calculated to cover the base of the water feature, slopes and anchor trenches, including seam overlap.

5. Characteristics

The Firestone PondGard is a rubber material with the following properties:

Physical	
	<ul style="list-style-type: none"> Elastomeric membrane with a good combination of high elasticity and tensile strength Retains its flexibility at low temperature (-45°C) Resists temperature shocks up to 250°C Excellent resistance to U.V. radiation and ozone concentration Excellent resistance to alkali rains
Technical	
	<ul style="list-style-type: none"> Base synthetic rubber Colour black Solvents none Solids (%) 100 State cured Storage Store the membrane in a dry place until use

6. Technical Specifications

Physical Properties	Test Method	Declared value	Tolerance	Unit
Mass per unit area	EN 1849-2	1170	± 5%	g/m²
Tensile strength (MD/CD)	ISO R 527	9	- 1	N/mm²
Elongation (MD/CD)	ISO R 527	≥ 250		%
Dimensional stability	EN 1107-2	≤ 0.5		%
Flexibility at low temperature	EN 495-5	≤ -45		°C
Resistance to static puncture	EN ISO 12236	0.6	- 0.1	kN
Water permeability (Liquid tightness)	EN 14150	3.0 10 ⁻⁶	± 10 ⁻⁶	m³/m²d
Durability - weathering (25y)	EN 12224	Pass		
Durability - oxidation	EN 14575	Pass		

7. Precautions

Take care when moving, transporting or handling to avoid sources of punctures and physical damage. Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the membrane.