



Firestone PondGard Rubber Liners & Firestone EPDM Geomembrane

Firestone Item Number:
Various: See Attached Page

DESCRIPTION:
Firestone EPDM Geomembrane is a cured single-ply geomembrane.

- PREPARATION OF SUBSTRATES:**
1. Substrates must be clean, dry, smooth, and free of sharp edges, fines, loose or foreign materials, oil, grease, and other materials that may damage the geomembrane.
 2. All roughened surfaces that can damage the geomembrane shall be repaired as specified to offer a smooth substrate.
 3. All substrate voids greater than 6.3m (.25") wide shall be properly filled with an acceptable fill material.

METHOD OF APPLICATION:
Firestone EPDM Geomembrane must be installed in accordance with current Firestone Specialty Products specifications and details.

- STORAGE:**
1. Store away from sources of punctures and physical damage.
 2. Store away from ignition sources as geomembrane will burn when exposed to open flame.



PRODUCT DATA

PACKAGING:

Thickness	Weight
1.02m (.040")	1.32/m (0.27 lb/ft)
1.14m (.045")	1.42/m (0.29 lb/ft)
1.52m (.060")	1.95/m (0.40 lb/ft)

See attached page for available length and width options.

PRECAUTIONARY DATA:

1. Take care when moving, transporting, handling, etc. to avoid sources of punctures and physical damage.
2. Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the geomembrane. Contact Firestone Specialty Products for specific recommendations.
3. Refer to material Safety Data Sheets (MSDS) for safety information.

LEED INFORMATION:

Post Consumer Recycled Content: 0%
Post Industrial Recycled Content: 0%
Manufacturing Locations: Prescott, AR
Kingstree, SC

This sheet is meant only to highlight Firestone's products and specifications. Information is subject to change without notice. Firestone takes responsibility for furnishing quality materials, which are Firestone's published product specification. As neither Firestone itself nor its representatives practice design, Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any project on which its products are applied. If questions arise as to the soundness of a project, or its ability to support a planned installation properly, the Owner should obtain opinions of competent design engineers before proceeding. Firestone accepts no liability for any failure or for resultant damages, and no Firestone Representative is authorized to vary this disclaimer.

Firestone PondGard Rubber Liners & Firestone EPDM Geomembrane

PHYSICAL PROPERTIES

Property	Test Method	Units	Minimum ASTM	
			D-7465	
			SI	Eng
Specific Gravity	ASTM D-792	gm/cc	1.1	1.1
Unit Weight	ASTM D-751	kg/m (lb/ft)	1.3	.27
Thickness, Type 1	ASTM D-412	mm (in)	1.02 +15/-10%	.040 +15/-10%
Tensile Strength, Die C	ASTM D-412	MPa (psi)	9.0	1305
Ultimate Elongation, Die C	ASTM D-412	%	300	300
Tear Resistance, Die C	ASTM D-624	kN/m (lbf/in)	26.27	150
Puncture Resistance	ASTM D-4833	N (lbs)	133	30
Shore A Durometer	ASTM D-2240		65-10	65-10
Resistance to Ozone 7 days/100 @ 37.8° C (150° F) 50% ext.	ASTM D-1149		No Cracks	No Cracks
Multiaxial Elongation	ASTM D-5617	%	100	100
Oven Aging At 116° C (240° F) for 670 hours	ASTM D-573			
Tensile strength Die C	ASTM D-412	MPa (psi)	8.3	1205
Ultimate elongation, Die C	ASTM D-412	%	200	200
Tear Resistance, Die C	ASTM D-624	kN/m (lbf/in)	21.9	125
Xenon Arc for 5040 kJ/(m ² .nm) @ 340 nm @ 80°C	ASTM G-155/G-151			
Visual Inspection 7X No cracks or crazing bent loop @10% strain	ASTM D-518		Pass	Pass
Brittleness Point	ASTM D-2137		-45°C	-49°F
Water Resistance weight after immersion 166 hrs @ 70° C (158° F)	ASTM D-471	%	+8,-2	+8,-2
Water Vapor Permeability (max.)	ASTM E-96	Permils	2.0	2.0
Linear Dimensional Change, ax	ASTM D-1204	%	+/- 1.0	+/- 1.0
Chronic Toxicity Screening	EPA/600/4-89/ 001 ASTM E-729	Method 1000.0	passes passes	passes passes

Notes: Certified Firestone EPDM Geomembrane production materials are special order items requiring a minimum of two weeks as production lead-time

Firestone EPDM Geomembrane meets or exceeds the minimum requirements set forth by ASTM D-7465 for Type I Non-reinforced EPDM Geomembrane.

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Firestone PondGard Rubber Liner Sizes

Firestone PondGard Rubber Liners- 0.91m (0.040") Thickness								
Dimensions		Packaging Type	Order Number	Coverage		Weight		
SI Units (Meters)	Eng Units (Feet)			SI Unit (Sq Meters)	Eng Units (Sq Feet)	SI Units (kg)	Eng Units (lbs)	
Rolls								
1.52 x 15.24	5 x 50	Roll	W56PL40550	23.23	250	31	68	
1.52 x 30.48	5 x 100	Roll	W56PL40510	46.45	500	61	135	
3.05 x 15.24	10 x 50	Roll	W56PL41005	46.45	500	61	135	
3.05 x 30.48	10 x 100	Roll	W56PL41010	92.90	1,000	122	270	
3.05 x 45.72	10 x 150	Roll	W56PL41004	139.35	1,500	184	405	
3.05 x 60.96	10 x 200	Roll	W56PL41020	185.81	2,000	245	540	
4.57 x 15.24	15 x 50	Roll	W56PL41505	69.68	750	92	203	
4.57 x 30.48	15 x 100	Roll	W56PL41510	139.35	1,500	184	405	
4.57 x 45.72	15 x 150	Roll	W56PL41501	209.03	2,250	276	608	
4.57 x 60.96	15 x 200	Roll	W56PL41521	278.71	3,000	367	810	
6.10 x 15.24	20 x 50	Roll	W56PL42005	92.90	1,000	122	270	
6.10 x 30.48	20 x 100	Roll	W56PL42010	185.81	2,000	245	540	
6.10 x 45.72	20 x 150	Roll	W56PL42015	278.71	3,000	367	810	
6.10 x 60.96	20 x 200	Roll	W56PL42020	371.61	4,000	490	1,080	
7.62 x 15.24	25 x 50	Roll	W56PL42505	116.13	1,250	153	338	
7.62 x 30.48	25 x 100	Roll	W56PL42510	232.26	2,500	306	675	
7.62 x 45.72	25 x 150	Roll	W56PL42515	348.39	3,750	459	1,013	
7.62 x 60.96	25 x 200	Roll	W56PL42520	464.52	5,000	612	1,350	
9.14 x 15.24	30 x 50	Roll	W56PL43005	83.61	1,500	184	405	
9.14 x 30.48	30 x 100	Roll	W56PL43010	139.35	3,000	367	810	
9.14 x 45.72	30 x 150	Roll	W56PL43015	418.06	4,500	551	1,215	
9.14 x 60.96	30 x 200	Roll	W56PL43020	557.42	6,000	735	1,620	
10.67 x 15.24	35 x 50	Roll	W56PL43505	162.58	1,750	215	473	
10.67 x 30.48	35 x 100	Roll	W56PL43510	325.16	3,500	429	945	
10.67 x 45.72	35 x 150	Roll	W56PL43515	487.74	5,250	643	1,418	
10.67 x 60.96	35 x 200	Roll	W56PL43520	650.32	7,000	857	1,890	
12.19 x 15.24	40 x 50	Roll	W56PL44005	185.81	2,000	245	540	
12.19 x 30.48	40 x 100	Roll	W56PL44010	371.61	4,000	490	1,080	
12.19 x 45.72	40 x 150	Roll	W56PL44015	557.42	6,000	735	1,620	
12.19 x 60.96	40 x 200	Roll	W56PL44020	743.22	8,000	980	2,160	
13.72 x 30.48	45 x 100	Roll	W56PL44510	418.06	4,500	551	1,215	
15.24 x 15.24	50 x 50	Roll	W56PL45005	232.26	2,500	306	675	
15.24 x 30.48	50 x 100	Roll	W56PL45010	464.52	5,000	612	1,350	
15.24 x 45.72	50 x 150	Roll	W56PL45015	696.77	7,500	919	2,025	
15.24 x 60.96	50 x 200	Roll	W56PL45020	929.03	10,000	1,225	2,700	
Boxes								
SI Units (Meters)	Eng Units (Feet)			Dimensions L x W x H (cm)		Dimensions L x W x H (Inches)		Ctn/Pallet
1.52 x 3.05	5 x 10	Bulk Box- 80/Box	W56PLB0510					
3.05 x 3.05	10 x 10	Bulk Box- 45/Box	W56PLB1010					
3.05 x 3.05	10 x 10	Box w/ label	W56PL41001	30.48 x 30.48 x 30.48		12 x 12 x 12		48
3.05 x 3.05	10 x 10	Box w/out label	W56PL41098	30.48 x 30.48 x 30.48		12 x 12 x 12		48
3.05 x 4.57	10 x 15	Bulk Box- 32/Box	W56PLB1015					
3.05 x 4.57	10 x 15	Box w/ label	W56PL41015	30.48 x 30.48 x 30.48		12 x 12 x 12		32
3.05 x 4.57	10 x 15	Box w/out label	W56PL41099	30.48 x 30.48 x 30.48		12 x 12 x 12		32

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Firestone PondGard Rubber Liner Sizes

Boxes- Continued									
SI Units (Meters)	Eng Units (Feet)			Dimensions L x W x H (cm)			Dimensions L x W x H (Inches)		Ctn/Pallet
4.57 x 4.57	15 x 15	Bulk Box- 24/Box	W56PLB1515						
4.57 x 4.57	15 x 15	Box w/ label	W56PL41515	30.48 x 30.48 x 60.96			12 x 12 x 24		24
4.57 x 4.57	15 x 15	Box w/out label	W56PL41096	30.48 x 30.48 x 60.96			12 x 12 x 24		24
4.57 x 6.10	15 x 20	Box w/ label	W56PL41502	30.48 x 30.48 x 91.44			12 x 12 x 36		16
4.57 x 6.10	15 x 20	Box w/out label	W56PL41095	30.48 x 30.48 x 91.44			12 x 12 x 36		16
4.57 x 7.62	15 x 25	Box w/ label	W56PL41525	30.48 x 30.48 x 91.44			12 x 12 x 36		16
4.57 x 7.62	15 x 25	Box w/out label	W56PL41094	30.48 x 30.48 x 91.44			12 x 12 x 36		46
6.10 x 6.10	20 x 20	Box w/ label	W56PL42002	30.48 x 30.48 x 91.44			12 x 12 x 36		12
6.10 x 6.10	20 x 20	Box w/out label	W56PL41093	30.48 x 30.48 x 91.44			12 x 12 x 36		12
Mini Rolls									
SI Units (Meters)	Eng Units (Feet)			Width (Meters)	Width (Feet)	Core (cm)	Core (Inches)	SI Units (kg)	Eng Units (lbs)
4.57 x 15.24	15 x 50	EPDM 6 Pack	W56PX01550H	0.91	3.0	10.16	4.0	92	203 ea
4.57 x 15.24	15 x 50	Mini Roll	W56PX01550	0.91	3.0	10.16	7.0	92	203
6.10 x 7.62	20 x 25	Mini Roll	W56PL42025	1.98	6.5	17.78	7.0	61	135
6.10 x 9.14	20 x 30	Mini Roll	W56PL42003	1.98	6.5	17.78	7.0	73	162
7.62 x 9.14	25 x 30	Mini Roll	W56PL42503	1.98	6.5	17.78	7.0	92	203
9.14 x 9.14	30 x 30	Mini Roll	W56PL43003	1.98	6.5	17.78	7.0	110	243



Firestone EPDM Geomembrane Panel Sizes

Firestone EPDM Geomembrane- 1.14m (0.045") Thickness

Dimensions		Packaging Type	Order Number	Coverage		Weight	
SI Units (Meters)	Eng Units (Feet)			SI Units (Sq Meters)	Eng Units (Sq Feet)	SI Units (kg)	Eng Units (lbs)
3.05 x 30.48	10 x 100	Roll	W56GM41010	92.90	1,000	132	290
3.05 x 60.96	10 x 200	Roll	W56GM41020	185.81	2,000	263	580
4.57 x 30.48	15 x 100	Roll	W56GM41510	139.35	1,500	197	435
4.57 x 60.96	15 x 200	Roll	W56GM41520	278.71	3,000	395	870
6.10 x 30.48	20 x 100	Roll	W56GM42010	185.81	2,000	263	580
6.10 x 45.72	20 x 150	Roll	W56GM42015	278.71	3,000	395	870
6.10 x 60.96	20 x 200	Roll	W56GM42020	371.61	4,000	526	1,160
7.62 x 30.48	25 x 100	Roll	W56GM42510	232.26	2,500	329	725
7.62 x 60.96	25 x 200	Roll	W56GM42520	464.52	5,000	658	1,450
9.14 x 30.48	30 x 100	Roll	W56GM43010	278.71	3,000	395	870
9.14 x 60.96	30 x 200	Roll	W56GM43020	557.42	6,000	789	1,740
10.67 x 30.48	35 x 100	Roll	W56GM43510	325.16	3,500	460	1,015
10.67 x 45.72	35 x 150	Roll	W56GM43515	487.74	5,250	691	1,523
10.67 x 60.96	35 x 200	Roll	W56GM43520	650.32	7,000	921	2,030
12.19 x 30.48	40 x 100	Roll	W56GM44010	371.61	4,000	526	1,160
12.19 x 45.72	40 x 150	Roll	W56GM44015	557.42	6,000	789	1,740
12.19 x 60.96	40 x 200	Roll	W56GM44020	743.22	8,000	1,052	2,320
13.72 x 30.48	45 x 100	Roll	W56GM44510	418.06	4,500	592	1,305
13.72 x 45.72	45 x 150	Roll	W56GM44515	627.10	6,750	888	1,958
13.72 x 60.96	45 x 200	Roll	W56GM44520	836.13	9,000	1,184	2,610
15.24 x 30.48	50 x 100	Roll	W56GM45010	464.52	5,000	658	1,450
15.24 x 45.72	50 x 150	Roll	W56GM45015	696.77	7,500	987	2,175
15.24 x 51.82	50 x 170	Roll	W56GM45170	789.68	8,500	1,118	2,465
15.24 x 53.34	50 x 175	Roll	W56GM45175	812.90	8,750	1,151	2,538
15.24 x 60.96	50 x 200	Roll	W56GM45020	929.03	10,000	1,315	2,900

Firestone EPDM Geomembrane- 1.52m (0.060") Thickness

Dimensions		Packaging Type	Order Number	Coverage		Weight	
SI Units (Meters)	Eng Units (Feet)			SI Units (Sq Meters)	Eng Units (Sq Feet)	SI Units (kg)	Eng Units (lbs)
3.05 x 30.48	10 x 100	Roll	W56GM61010	92.90	1,000	181	400
3.05 x 60.96	10 x 200	Roll	W56GM61020	185.81	2,000	363	800
6.10 x 30.48	20 x 100	Roll	W56GM62010	185.81	2,000	363	800
6.10 x 60.96	20 x 200	Roll	W56GM62020	371.61	4,000	726	1,600
9.14 x 30.48	30 x 100	Roll	W56GM63010	278.71	3,000	544	1,200
9.14 x 60.96	30 x 200	Roll	W56GM63020	557.42	6,000	1,089	2,400
12.19 x 30.48	40 x 100	Roll	W56GM64010	371.61	4,000	726	1,600
12.19 x 60.96	40 x 200	Roll	W56GM64020	743.22	8,000	1,451	3,200
15.24 x 30.48	50 x 100	Roll	W56GM65010	464.52	5,000	907	2,000
15.24 x 60.96	50 x 200	Roll	W56GM65020	929.03	10,000	1,814	4,000