



**GFG SERIES PROTECTION SHEETS**

TRIPLE LAYER, CO-EXTRUDED, CROSS-LAMINATED HDPE

**KINGFIELD GEL-FLEX COMPOSITE WATERPROOFING SYSTEMS**

Class A Vapor Retarder Membrane – Radon, Methane, Sulfate, and Soil Contaminant Barrier



GFG Series protection sheets are membranes constructed to restrict chemical and moisture migration through Kingfield's Gel-Flex polymer rubber gel waterproofing systems. These materials are made from proprietary polyolefin resins and have been independently tested against ASTM E 1745 requirements (Standard Test Methods for Water Vapor Barriers used in contact with earth under concrete slabs) showing superior permeance and physical properties.

*GFG membranes are available in several thicknesses: 11, 16, 21, 26, and 31 mil thickness in corresponding GFG designations: **GFG11, GFG16, GFG21, GFG26, and GFG31.***

Kingfield's GFG Series are also offered as a composite membrane: **GFG20X**. For added strength, 16 mil GFG HDPE membrane is laminated to 15 mil polypropylene nonwoven geo-textiles to meet the toughest performance specifications. The geotextile provides cushion, increases grip, and ensures positive contact with the Kingfield Gel-Flex systems.

**Application:**

GFG Series protection sheets restricts the transmission of chemical laden ground water and water vapor from passing through Gel-Flex membranes and concrete slabs. Properly installed GFG Series protection sheets will protect floors and walls susceptible to moisture damage from vapor migration through the concrete slab and horizontal vapor transmission. Also, GFG Series vapor barriers significantly decrease interior moisture condensation, mold, and help provide a dryer, healthier environment to your building.

**APPLICATIONS**

- Protection of Gel-Flex Systems
- Groundsheet Protection for Novatak Systems
- Vapor Barrier Geomembrane

**KEY FEATURES**

- Exceeds ASTM E 1745 class A, B, & C standards
- Mitigate transmission of radon, methane, sulfates, and many other soil contaminants
- Ribbed texture reduces sheet & lap seam slippage

Property	Test Method	Unit	GFG11	GFG16	GFG21	GFG26	GFG31	GFG20X
Tensile Strength	ASTM D 882	lbf/in	50	83.75	85	>100	>100	136
Puncture Resistance	ASTM D 1709	grams	2400	3960	4750	>5076	>5076	5210
Chemical Resistance	ASTM E 154	-	Unaffected	Unaffected	Unaffected	Unaffected	Unaffected	Unaffected
Water Vapor Permeance	ASTM E 96	Perms (US)	0.020	0.007	<0.01	<0.01	<0.01	0.007
Vapor Barrier Classification	ASTM D 1745	Exceeds Class	A, B, C	A, B, C	A, B, C	A, B, C	A, B, C	A, B, C
Life Expectancy	ASTM E 154	-	Indefinite	Indefinite	Indefinite	Indefinite	Indefinite	Indefinite
Material Thickness	-	mil	10±10%	15±10%	20±10%	25±10%	30±10%	30±10%
Standard Dimensions	-	Feet	12.75 x 200*	12.75 x 150*	12.75 x 110*	12.75 x 90*	12.75 x 75*	6 x 150
Area per Unit	-	Square Feet	2,550	1,912.50	1,402.50	1,147.50	956.25	900
Weight per Unit	-	Pounds	131	137				94

\*Other sizes available upon request

**INFO@KINGFIELDCP.COM – 612.225.5167 – WWW.KINGFIELDCP.COM**

**KINGFIELD CONSTRUCTION PRODUCTS – 20 NORTH 4TH STREET, SUITE 300, MINNEAPOLIS, MINNESOTA 55401**

The information contained herein is believed by Kingfield Construction Products to be accurate and is offered solely for the customer's consideration, investigation, and verification. Determination of suitability for use is the responsibility of the user. Kingfield's Limited Warranty, & Disclaimer along with Standard Terms & Conditions apply. See [www.kingfieldcp.com](http://www.kingfieldcp.com) for more info. Limitations: Standard variations of mechanical properties and hydraulic properties are normal. Kingfield products are resistant to chemicals in normal soil environments, however some reagents may affect the performance of these products. A Kingfield representative should be contacted for further information to determine the suitability of use of these products in unusual soil environments. Unless otherwise stated, Kingfield products should have limited exposure to artificial UV and sunlight. Kingfield products should be protected immediately, and if applicable, backfilled or covered within seven days of installation. Disclaimer: All information, drawings and specifications are based on the latest published information at the time of printing. Kingfield reserves the right to make changes due to manufacturing improvements and engineering at any time. All physical properties are minimum average values (MAV).