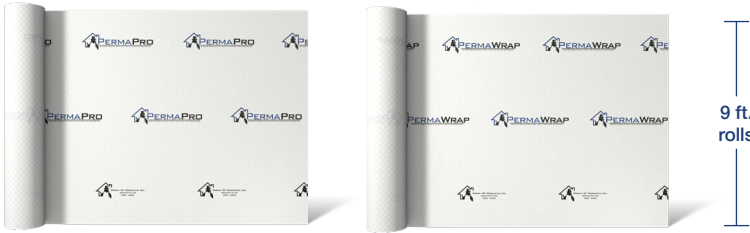


# PERMAPRO® & PERMAWRAP®

VS KINGSPAN® GREENGUARD® HOUSE WRAP



Scan me for more information!



Protection Against UV Damage



Cost Effective, Builder-Grade Solution



Low Permeability

## Features & Benefits

- Woven polypropylene, microperforated fabric for proper moisture transmission consistency
- Semi-translucent and lightweight for easy installation
- Up to 9 months of UV protection
- Upgrade to PermaWrap for increased durability with higher tensile and tear strength
- Custom logo available

## PermaPro® & PermaWrap® Available Sizes

3' x 100'	3' x 150'	3' x 195'
4.5' x 100'	4.5' x 150'	4.5' x 195'
9' x 100'	9' x 150'	9' x 195'
10' x 100'	10' x 150'	10' x 195'

## PermaPro & PermaWrap vs Kingspan GreenGuard House Wrap Comparison Chart

Specification	PermaPro®	Kingspan GreenGuard® VW Building Wrap	PermaWrap®	Kingspan GreenGuard® MAX Building Wrap
<b>Composition</b>	Woven Micro-Perforated Polypropylene	Cross-Woven Polyolefin, Micro-Perforated	Woven Micro-Perforated Polypropylene	Cross-Woven, Non-Perforated
<b>Weight</b>	1.9 oz.yd <sup>2</sup> (+/-5%)	1.92 oz.yd <sup>2</sup> (+/-5%)	2.2 oz.yd <sup>2</sup> (+/-5%)	3.01 oz.yd <sup>2</sup> (+/-5%)
<b>Thickness</b>	Avg 5.0 mils	4.4 mils	Avg 6.5 mils	18 mils
<b>Tensile Strength</b>	MD 53 LB • CD 44 LB	MD 45 LB • CD 29 LB	MD 80 LB • CD 40 LB	MD 74 LB • CD 44 LB
<b>Tear Strength</b>	MD 21 LB • CD 19 LB	MD 32 LB • CD 41 LB	MD 40 LB • CD 13 LB	MD 80 LB • CD 48 LB
<b>Water Resistance</b>	PASS	PASS	PASS	PASS
<b>MTVR/Perms</b>	12-15 Perms	10 Perms	12-15 Perms	25 Perms
<b>UV Resistance</b>	9 Months	6 Months	9 Months	6 Months
<b>Fire Rating</b>	Class A	25 Class A	Class A	0 Class A
<b>Code Listing</b>	CCRR-0459		CCRR-0459	

## Promote Your Brand with Custom-Printed House Wrap



House wrap can sit exposed on a job site for an extended period of time. Take full advantage of that exposure and advertise your brand with custom logo printing by Perma "R" Products.



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# WATERSHED™

VS KINGSPAN® GREENGUARD® HOUSE WRAP



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## WATERSHED™

MOISTURE MANAGEMENT BUILDING WRAP

WaterShed® Building Wrap	
DESCRIPTION	AVAILABLE SIZES
Low-Perm (15)	9'x100', 9'x150', 9'x195', 10'x100', 10'x150', 10'x195'
High-Perm (55)	9'x100', 9'x150', 9'x195', 10'x100', 10'x150', 10'x195'
Commercial Perm (35)	10'x100', 10'x150', 10'x195'

9 ft. rolls



### Features & Benefits

- Non-perforated, breathable material
- Built-in multi-directional drainage plane
- Low perm, high perm, & commercial grades
- Lightweight for easy installation
- Jobsite tough and durable
- Class A fire rating
- Use behind all claddings



Protection Against UV Damage



Low & High Permeability



Non-Directional Drainage Pattern

### WaterShed vs Kingspan GreenGuard House Wrap Comparison Chart

	WaterShed™ Low-P	Kingspan GreenGuard® Raindrop 3D	Kingspan GreenGuard® RainArmor	Kingspan GreenGuard® HPW Building Wrap	WaterShed™ Commercial	WaterShed™ High-P	
TEST	TYPICAL PROPERTIES	TYPICAL PROPERTIES	TYPICAL PROPERTIES	TYPICAL PROPERTIES	TYPICAL PROPERTIES	TYPICAL PROPERTIES	TEST METHOD
Composition	Non-Woven Film with CLAF®	3D Drainage Channels, Non-Woven, Non-Perforated	Omni-Directional Drainage, Non-Woven, Non-Perforated	Non-Woven, Non-Perforated with Polyolefin	Non-Woven Film with CLAF®	Non-Woven Film with CLAF®	
Weight	2.2 oz/yd² (+/-5%)	3.02 oz/yd² (+/-5%)	3.24 oz/yd² (+/-5%)	2.74 oz/yd² (+/-5%)	2.5 oz/yd² (+/-5%)	2.2 oz/yd² (+/-5%)	TAPPI T-410
Thickness	Avg. 8.0 mils	20 mils	33 mils	17 mils	Avg. 8.0 mils	Avg. 8.0 mils	ASTM D3776
Breaking Strength	MD 30 LB CD 30 LB	MD 56 LB CD 30 LB	MD 51 LB CD 40 LB	MD 50 LB CD 40 LB	MD 30 LB CD 30 LB	MD 30 LB CD 30 LB	ASTM D5034
Water Penetration Resistance	>300 cm	>600 cm	>450 cm	>400 cm	>300 cm	>300 cm	AATCC 127
Trapezoidal Tear	MD 13.5 LB CD 12.5 LB	MD 25 LB CD 41 LB	MD 11 LB CD 19 LB	MD 9 LB CD 20 LB	MD 13.5 LB CD 12.5 LB	MD 13.5 LB CD 12.5 LB	ASTM D1117
Air Permeance	0.0013 (cfm/ft² @ 1.57 psf)	0.001 (cfm/ft² @ 1.57 psf)	0.004 (cfm/ft² @ 1.57 psf)	0.002 (cfm/ft² @ 1.57 psf)	0.0008 (cfm/ft² @ 1.57 psf)	0.00082 (cfm/ft² @ 1.57 psf)	ASTM E 2178
MTVR/Perms	15 Perms	16-18 Perms	15 Perms	24 Perms	35 Perms	55 Perms	ASTM E 96-05 Method A
UV Resistance	6 Months	6 Months	6 Months	6 Months	6 Months	6 Months	NA
Drainage Efficiency	>95%	>90%	>98%	>90%	>95%	>95%	ASTM E2273 (ICC-ES AC 235)
Fire Rating	15 Class A	0 Class A	≤25 Class A	0 Class A	15 Class A	15 Class A	ASTM E84 Flame Spread Index
	45 Class A	15	≤450	75	45 Class A	Pass	Smoke Develop Index

SOURCES: PermaRProducts.com, Kingspan.com



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