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Facings

In addition to acting as a decorative protection barrier, facings serve an integral part of the overall insulation system. Facings provide vapor barriers, light reflectivity and structural strength. In some cases, a reinforcement of fiberglass scrim is used for extra rigidity and greater impact resistance.

Facings as Vapor Barriers

The main function of facings is to act as a vapor barrier. While a vapor barrier may not necessarily be able to stop the flow of water vapor, it does an excellent job of minimizing the rate and volume of the flow. This prevents moisture from accumulating within the insulation blanket and the structure, which translates into

consistent thermal values and lower heating and cooling costs.

The effectiveness of a vapor barrier depends on three primary factors:

- 1) Location within the insulated section
- 2) Permeance
- 3) Proper installation

Facings intended to serve as vapor barriers should be installed on the inner, heated surface of the insulation, where vapor pressure is the highest. This helps in preventing vapor from reaching the cooler air and condensing.

Perm Rating

The perm rating, or permeance, is a measure of the amount of water that passes through one square foot of material per hour. The lower the perm rating, the more effective the barrier. A facing material with a perm rating of 0.1 or less is considered excellent. Anything with a rating above 1.0 is not considered a vapor barrier.

Installation and Selection

Metal Building Depot provides the highest quality products available. However, proper installation and selection is imperative for maximum effectiveness. Please refer to installation instructions to ensure correct procedures are used. Facings that have been torn or punctured are no longer capable of blocking water vapor and may eventually do more harm than good. Be sure to quickly patch any holes in the vapor barrier.

When selecting a facing, special consideration should be given to its reflective quality. A facing with high reflectivity reduces the need for high light levels in work areas. This results in reduced energy costs and increased productivity.

Warning!

Although the fiberglass insulation itself is not affected by cold weather, the facing is. Colder temperatures can cause cold crack, a situation where the facing becomes brittle and if handled can crack. Bay Insulation recommends that vinyl faced fiberglass products never be installed in temperatures below 40 degrees.

VAPOR BARRIERS PREVENT VAPOR FROM REACHING COOLER AIR AND CONDENSING.

Need More Information? We have detailed specifications on many different facings below!



ICONBUILDINGS.COM

Most Popular Facings

NAME	WMP-VR	MWP-10	WMP-VR-R	WMP-50
GENERIC ID	PSK-LD	PSK-STD	PSP	PSKP
HIGHLIGHTS	Lowest Cost general purpose product. Excellent for chemically hostile environment.	Excellent general-purpose product. Specified by Army Corps of Engineers.	Lowest cost film/film product with a .02 perm (WVTR).	Excellent strength and highly abuse resistant. Provides enhanced installed appearance.

- Most Popular facings satisfy the majority of applications.
- WMP-VR and WMP-10 are industry standards.
- Kraft backed products improve in appearance after installation

MOST POPULAR FACINGS - SPECIFICATION DATA													
A*	B	C	D	E	F	G							
Name / Generic Identification	Construction	WVTR Perm	MD TENSILE lbs / in	XD TENSILE lbs / in	MULLEN BURST psi	BEACH PUNCTURE	NRC	CHEMICAL RESISTANCE	UL-723	ASTM E 84	CAN ULC-S102M	FACTORY MUTUAL	BS 476 CLASS 0
WMP-VR SK-LD	White polypropylene film, fiber-glass & polyester scrim, 11# natural kraft	0.09	40	30	60	125	.85	Excellent	X	X	X	X	X
WMP-10 PSK-STD	White polypropylene film, metallization, fiberglass & polyester scrim, 14# white kraft	0.02	40	35	65	125	.85	Good	X	X	X	X	X
WMP-VR-R PSP	White polypropylene film, fiberglass scrim, metallized polyester	0.02	35	35	90			Good	X	X		X	
WMP-50 PSKP	White polypropylene film, fiberglass & polyester scrim, 30# natural kraft, metallized polyester	0.02	65	60	120	125	.80	Good	X	X	X	X	X

"LAMTEC", "WMP" AND "WCF" ARE REGISTERED TRADEMARKS OF LAMTEC CORPORATION

WMP-VR
POLYPROPYLENE / SCRIM / KRAFT
Meets ASTM C1136, Type IV



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional Fiberglass/Polyester	4 / inch (XD) 4 / inch (MD)	20 / 100 mm (MD) 16 / 100 mm (XD)
Kraft	Natural	11 lbs / 3000 ft ²	18 gm / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	17 lbs / 1000 ft ²	83 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.09 perm (grains/hr.ft ² .in Hg)	5.17 ng / N.s
Bursting Strength	ASTM D774	60 psi	4.2 kg / cm ²
Puncture Resistance	ASTM C1136	125 beach units	3.7 Joules
Tensile Strength	ASTM C1136	40 lbs/inch width (MD) 30 lbs/inch width (XD)	7.0 kn / m (MD) 5.3 kn / m (XD)
Caliper / Thickness	Micrometer	0.008 inch	203 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	85%	85%

FIRE TESTING	UL 723 / ASTM E84		CAN ULC-S102M		BRITISH STANDARD 476
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed	Parts 6 and 7 Summary Report
Film Exposed	10	10	15	30	Class 0 Surface
Kraft Exposed	15	5	15	45	

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

WMP-VR BLACK**BLACK COATING / POLYPROPYLENE / SCRIM / KRAFT****Meets ASTM C1136, Type IV**

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
Black Coating	Flame Resistant	0.0002 inch	5.1 micron
Film	Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional Fiberglass/Polyester	4 / inch (XD) 5 / inch (MD)	20 / 100 mm (MD) 16 / 100 mm (XD)
Kraft	Natural	11 lbs / 3000 ft ²	18 gm / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	19 lbs / 1000 ft ²	93 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.09 perm(grains/hr.ft ² .in Hg)	5.17 ng / N.s
Bursting Strength	ASTM D774	60 psi	4.2 kg / cm ²
Puncture Resistance	ASTM C1136	125 beach units	3.7 Joules
Tensile Strength	ASTM C1136	40 lbs/inch width (MD) 30 lbs/inch width (XD)	7.0 kn / m (MD) 5.3 kn / m (XD)
Caliper / Thickness	Micrometer	0.008 inch	203 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%

FIRE TESTING	UL 723 / ASTM E84	
	Flame Spread	Smoke Developed
Polypropylene Exposed	10	10
Polyester Exposed	15	5

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

WMP-10
POLYPROPYLENE / SCRIM / KRAFT
Meets ASTM C1136, Type II, IV



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Metalized Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional Fiberglass/Polyester	5 / inch (XD) 5 / inch (MD)	20 / 100 mm (MD) 20 / 100 mm (XD)
Kraft	White	14 lbs / 3000 ft ²	23 gm / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	19 lbs / 1000 ft ²	93 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	65 psi	4.6 kg / cm ²
Puncture Resistance	ASTM C1136	125 beach units	3.7 Joules
Tensile Strength	ASTM C1136	40 lbs/inch width (MD) 35 lbs/inch width (XD)	7.0 kn / m (MD) 6.1 kn / m (XD)
Caliper / Thickness	Micrometer	0.009 inch	229 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	85%	85%

FIRE TESTING	UL 723 / ASTM E84		CAN ULC-S102M		BRITISH STANDARD 476
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed	Parts 6 and 7 Summary Report
Polypropylene Exposed	10	10	15	30	Class 0 Surface
Polyester Exposed	15	5	15	45	

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

WMP-10 BLACK**BLACK COATING / POLYPROPYLENE / SCRIM / KRAFT****Meets ASTM C1136, Type II, IV**

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
Black Coating	Flame Resistant	0.0002 inch	5.1 micron
Film	Metalized Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional Fiberglass/Polyester	5 / inch (XD) 5 / inch (MD)	20 / 100 mm (MD) 20 / 100 mm (XD)
Kraft	White	14 lbs / 3000 ft ²	23 gm / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	21 lbs / 1000 ft ²	103 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	65 psi	4.6 kg / cm ²
Puncture Resistance	ASTM C1136	125 beach units	3.7 Joules
Tensile Strength	ASTM C1136	40 lbs/inch width (MD) 35 lbs/inch width (XD)	7.0 kn / m (MD) 6.1 kn / m (XD)
Caliper / Thickness	Micrometer	0.009 inch	229 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%

FIRE TESTING	UL 723 / ASTM E84	
	Flame Spread	Smoke Developed
Film Exposed	10	10
Kraft Exposed	15	5

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

WMP-VR-R
POLYPROPYLENE / SCRIM / POLYESTER



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
Metal Panels	Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional Fiberglass/Polyester	4 / inch (XD) 4 / inch (MD)	16 / 100 mm (MD) 16 / 100 mm (XD)
Film	Metalized Polyester	0.0005 inch	12.7 micron

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	14 lbs / 1000 ft ²	68 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	90 psi	6.3 kg / cm ²
Tensile Strength	ASTM C1136	35 lbs/inch width (MD) 35 lbs/inch width (XD)	6.1 kn / m (MD) 6.1 kn / m (XD)
Caliper / Thickness	Micrometer	0.007 inch	178 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	85%	85%

FIRE TESTING	UL 723 / ASTM E84	
	Flame Spread	Smoke Developed
Film Exposed	10	35
Kraft Exposed	10	40

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

WMP-50**POLYPROPYLENE / SCRIM / CORE / METALLIZED POLYESTER**

Meets ASTM C1136, Type I, II, III, IV

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional Fiberglass/Polyester	5 / inch (XD) 5 / inch (MD)	20 / 100 mm (MD) 20 / 100 mm (XD)
Core	Proprietary	30 lbs / 3000 ft ²	49 gm / m ²
Adhesive	Polymeric		
Film	Metalized Polyester	0.0005 inch	12.7 micron

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	32 lbs / 1000 ft ²	156 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	120 psi	8.4 kg / cm ²
Puncture Resistance	ASTM C1136	125 beach units	3.7 Joules
Tensile Strength	ASTM C1136	65 lbs/inch width (MD) 60 lbs/inch width (XD)	11.4 kn / m (MD) 10.5 kn / m (XD)
Caliper / Thickness	Micrometer	0.010 inch	254 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	85%	85%

FIRE TESTING	UL 723 / ASTM E84		CAN ULC-S102M		BRITISH STANDARD 476
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed	Parts 6 and 7 Summary Report
Polypropylene Exposed	5	30	5	30	Class 0 Surface
Polyester Exposed	5	20	5	20	

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

Specialty Facings

HIGH UV Use facings with white coated foil for building interiors with significant UV (ultraviolet) exposure; from oversized doors, multiple skylights or interior indirect lighting. Select: WCF-30 or WCF-50

HIGH ABUSE Use facings with exceptionally high impact and tear strength; for sporting facilities and high traffic areas where contact with the facing is likely. Select: GYMGUARD or ARENASHIELD

NAME	WCF-30	WCF-50	WMP-30	GYMGUARD	ARENASHIELD
GENERIC ID	White FSK	White FSKP	PSK-HD	Film / Fabric	Foil / Fabric
HIGHLIGHTS	Standard duty white coated foil. For high UV applications.	Heavy duty white coated foil. For high UV applications.	Heavier kraft provides improved strength and appearance.	Exceptionally high impact strength.	Excellent strength and highly abuse resistant. Provides enhanced installed appearance.

SPECIALTY FACINGS - SPECIFICATION DATA													
A*	B	C	D	E	F	G							
Name / Generic Identification	Construction	WVTR Perm	MD TENSILE lbs / in	XD TENSILE lbs / in	MULLEN BURST psi	BEACH PUNCTURE	NRC	CHEMICAL RESISTANCE	UL-723	ASTM E 84	CAN ULC-S102M	FACTORY MUTUAL	BS 476 CLASS 0
WCF-30 White FS	White coated aluminum foil, fiberglass & polyester scrim, 30# natural kraft.	0.02	55	35	60	85		Poor	X	X	X		
WCF-50 White FSKP	White coated aluminum foil, 30# natural kraft, fiberglass & polyester scrim, metallized polyester film	0.02	60	55	100	90		Poor	X	X	X		
WMP-30 PSK-HD	White polypropylene film, metallization, fiberglass & polyester scrim, 30# natural kraft	0.02	55	40	70	105	.75	Good	X	X	X	X	
Gymguard Film / Fabric	White polypropylene film, metallization, fiberglass & polyester fabric.	0.02	195	150	250	650	.65	Good	X	X	X	X	
Arenashield Foil / Fabric	Aluminum foil, fiberglass & polyester fabric	0.02	195	150	250	550	.65	Poor	X	X	X	X	

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WCF-30 - Tentative Specification
WHITE FOIL/ SCRIM / KRAFT
Meets ASTM C1136, Type I, II, III, IV



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Foil	Aluminum	0.0003 inch	7.6 micron
Barrier Coating	Elastomeric Polymer	0.0001 inch	2.5 micron
Reinforcing	Tri-directional Fiberglass/Polyester	5 / inch (XD) 5 / inch (MD)	20 / 100 mm (MD) 20 / 100 mm (XD)
Adhesive	Flame Resistant		
Kraft	Natural	30 lbs / 3000 ft ²	49 gm / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	24 lbs / 1000 ft ²	117 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	60 psi	4.2 kg / cm ²
Puncture Resistance	ASTM C1136	85 beach units	2.5 Joules
Tensile Strength	ASTM C1136	55 lbs/inch width (MD) 35 lbs/inch width (XD)	9.6 kn / m (MD) 6.1 kn / m (XD)
Caliper / Thickness	Micrometer	0.008 inch	203 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM E308	62%	62%

FIRE TESTING	UL 723 / ASTM E84		CAN ULC-S102M	
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
Foil Exposed	5	5	5	5
Kraft Exposed	25	10	25	10

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

WCF-50 - Tentative Specification
WHITE FOIL/ SCRIM / CORE / METALLIZED POLYESTER
Meets ASTM C1136, Type I, II, III, IV



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Foil	Aluminum	0.0003 inch	7.6 micron
Adhesive	Polymeric		
Core	Proprietary	30 lbs / 3000 ft ²	49 gm / m ²
Reinforcing	Tri-directional Fiberglass/Polyester	5 / inch (XD) 5 / inch (MD)	20 / 100 mm (MD) 20 / 100 mm (XD)
Adhesive	Flame Resistant		
Film	Metalized Polypropylene	0.0005 inch	12.7 micron

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	29 lbs / 1000 ft ²	142 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm(grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	100 psi	7.0 kg / cm ²
Puncture Resistance	ASTM C1136	90 beach units	2.7 Joules
Tensile Strength	ASTM C1136	60 lbs/inch width (MD) 55 lbs/inch width (XD)	10.5 kn / m (MD) 9.6 kn / m (XD)
Caliper / Thickness	Micrometer	0.009 inch	229 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM E308	62%	62%

FIRE TESTING	UL 723 / ASTM E84		CAN ULC-S102M	
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
Foil Exposed	5	0	5	0
Polyester Exposed	15	45	15	45

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

WMP-30
POLYPROPYLENE / SCRIM / KRAFT
Meets ASTM C1136, Type I, II, III, IV



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Metalized Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional Fiberglass/Polyester	5 / inch (XD) 5 / inch (MD)	20 / 100 mm (MD) 20 / 100 mm (XD)
Kraft	Natural	30 lbs / 3000 ft ²	49 gm / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	26 lbs / 1000 ft ²	127 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	70 psi	4.9 kg / cm ²
Puncture Resistance	ASTM C1136	105 beach units	3.1 Joules
Tensile Strength	ASTM C1136	55 lbs/inch width (MD) 40 lbs/inch width (XD)	9.6 kn / m (MD) 7.0 kn / m (XD)
Caliper / Thickness	Micrometer	0.010 inch	254 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	85%	85%

FIRE TESTING	UL 723 / ASTM E84		CAN ULC-S102M	
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
Polypropylene Exposed	5	5	5	5
Polyester Exposed	10	20	20	25

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

GYM GUARD
POLYPROPYLENE / FIBERGLASS-POLYESTER BLEND FABRIC



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Metalized Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Fabric	Fiberglass/Polyester Blend	7.5 lbs / 3000 ft ²	122 gm / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	36 lbs / 1000 ft ²	176 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	250 psi	17.6 kg / cm ²
Puncture Resistance	ASTM C1136	650 beach units	19.4 Joules
Tensile Strength	ASTM C1136	195 lbs/inch width (MD) 150 lbs/inch width (XD)	34.1 kn / m (MD) 26.3 kn / m (XD)
Caliper / Thickness	Micrometer	0.007 inch	178 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	85%	85%

FIRE TESTING	UL 723 / ASTM E84		CAN ULC-S102M	
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
Foil Exposed	0	30	5	30
Fabric Exposed	5	40	5	40

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

ARENASHIELD
FOIL / FIBERGLASS-POLYESTER BLEND FABRIC



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
Foil	Aluminum	0.0003 inch	7.6 micron
Adhesive	Flame Resistant		
Fabric	Fiberglass/Polyester Blend	75 lbs / 3000 ft ²	122 gm / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	40 lbs / 1000 ft ²	195 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm(grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	250 psi	17.6 kg / cm ²
Puncture Resistance	ASTM C1136	550 beach units	16.4 Joules
Tensile Strength	ASTM C1136	195 lbs/inch width (MD) 150 lbs/inch width (XD)	34.1 kn / m (MD) 26.3 kn / m (XD)
Caliper / Thickness	Micrometer	0.006 inch	152 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Emissivity	ASTM C408	0.03	0.03

FIRE TESTING	UL 723 / ASTM E84		CAN ULC-S102M	
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
Foil Exposed	5	5	5	5
Fabric Exposed	5	5	5	5

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

Specialty Facings II

REFLECTIVITY / LOW EMISSIVITY Use facings with an exposed foil surface to reduce the radiant energy entering the building, due to their low (.03) emissivity. Commonly used in agricultural buildings, ice arenas, mini storage, etc. Select: R-3035 HD, WMP-F or Arenashield

ENTERTAINMENT / RETAIL Black facings draw less attention to the surface area, providing unique architectural opportunities and benefits. Applications include open ceiling designs, theaters, malls, retail stores, restaurants, and arenas. Select: Black - Available in most facings

NAME	R-3035 HD	WMP-F	VRP HD	VSF HD	BLACK
GENERIC ID	FSK-HD	PSF	VRP-HD	VSF-HD	BLACK
HIGHLIGHTS	Lowest cost foil facing designed for metal buildings. Provides .03 emissivity benefits.	Lowest cost film/foil product. Highly water resistant. Expose foil for .03 emissivity.	Attractive film/film product is flexible and impact resistant.	Rigid vinyl provides smooth panel appearance.	Matte black finish at lower cost than painting. UV stable and UL approved.

SPECIALTY FACINGS - SPECIFICATION DATA													
A*	B	C	D	E	F	G							
Name / Generic Identification	Construction	WVTR Perm	MD TENSILE lbs / in	XD TENSILE lbs / in	MULLEN BURST psi	BEACH PUNCTURE	NRC	CHEMICAL RESISTANCE	UL-723	ASTM E 84	CAN ULC-S102M	FACTORY MUTUAL	BS 476 CLASS 0
R-3035 HD FSK-HD	Aluminum foil, fiberglass & polyester scrim, 30# natural kraft	0.02	55	35	60	85	.80	Poor	X	X	X	X	
WMP-F PSF	White polypropylene film, fiberglass scrim, aluminum foil	0.02	45	45	90	130	.90	Good	X	X	X	X	
VRP HD VRP HD	White vinyl film, fiberglass scrim, metallized polyester film	0.02	40	30	85	150	.75	Fair	X	X			
VSF HD Film / Fabric	White vinyl film, fiberglass scrim, aluminum foil	0.02	45	30	80	50	.75	Fair	X	X	X		
Black	Available in most facings: WMP-VR, WMP-10, WMP-VR-R, WMP-50, WMP-30, Gymguard, R-3035 HD, WMP-F and VRP-HD								X	X			

"LAMTEC", "WMP" AND "WCF" ARE REGISTERED TRADEMARKS OF LAMTEC CORPORATION

R-3035 HD
FOIL / SCRIM / KRAFT
Meets ASTM C1136, Type I, II, III, IV



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
Foil	Aluminum	0.0003 inch	7.6 micron
Barrier Coating	Elastomeric Polymer	.0001 inch	2.5 micron
Reinforcing	Tri-directional Fiberglass/Polyester	5 / inch (XD) 5 / inch (MD)	20 / 100 mm (MD) 20 / 100 mm (XD)
Adhesive	Flame Resistant		
Kraft	Natural	30 lbs / 3000 ft ²	49 gm / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	24 lbs / 1000 ft ²	117 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm(grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	60 psi	4.2 kg / cm ²
Puncture Resistance	ASTM C1136	85 beach units	2.5 Joules
Tensile Strength	ASTM C1136	55 lbs/inch width (MD) 35 lbs/inch width (XD)	9.6 kn / m (MD) 6.1 kn / m (XD)
Caliper / Thickness	Micrometer	0.008 inch	203 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Emissivity	ASTM E408	0.03	0.03

FIRE TESTING	UL 723 / ASTM E84		CAN ULC-S102M	
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
Foil Exposed	5	0	5	5
Kraft Exposed	25	10	25	25

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

WMP-F
POLYPROPYLENE / SCRIM / FOIL
 Title = ASTM C1136, Type I



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Bi-directional Fiberglass	4 / inch (XD) 4 / inch (MD)	16 / 100 mm (MD) 16 / 100 mm (XD)
Foil	Aluminum	0.0003 inch	7.6 micron

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	17 lbs / 1000 ft ²	83 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	90 psi	6.3 kg / cm ²
Puncture Resistance	ASTM C1136	130 beach units	3.9 Joules
Tensile Strength	ASTM C1136	45 lbs/inch width (MD) 45 lbs/inch width (XD)	7.9 kn / m (MD) 7.9 kn / m (XD)
Caliper / Thickness	Micrometer	0.008 inch	203 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Emissivity (Foil)	ASTM E408	0.03	0.03
Light Reflectance (Film)	ASTM C523	85%	85%

FIRE TESTING	UL 723 / ASTM E84	
	Flame Spread	Smoke Developed
Polypropylene Exposed	10	20
Polyester Exposed	5	10

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

VRP HD
VINYL / SCRIM / METALLIZED POLYESTER



FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Rigid Vinyl	0.0025 inch	63.5 micron
Adhesive	Flame Resistant		
Reinforcing	Bi-directional Fiberglass	4 / inch (XD) 4 / inch (MD)	16 / 100 mm (MD) 16 / 100 mm (XD)
Film	Metalized Polyester	0.0005 inch	12.7 micron

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	35 lbs / 1000 ft ²	171 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	85 psi	6.0 kg / cm ²
Puncture Resistance	ASTM C1136	150 beach units	4.5 Joules
Tensile Strength	ASTM C1136	40 lbs/inch width (MD) 30 lbs/inch width (XD)	7.0 kn / m (MD) 5.3 kn / m (XD)
Caliper / Thickness	Micrometer	0.0010 inch	254 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	88.5%	88.5%

FIRE TESTING	UL 723 / ASTM E84	
	Flame Spread	Smoke Developed
Foil Exposed	15	50
Film Exposed	15	40

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Rigid Vinyl	0.002 inch	51 micron
Adhesive	Flame Resistant		
Reinforcing	Bi-directional Fiberglass	4 / inch (XD) 4 / inch (MD)	16 / 100 mm (MD) 16 / 100 mm (XD)
Foil	Aluminum	0.0005 inch	12.7 micron

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	29 lbs / 1000 ft ²	114 gm / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft ² .in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	80 psi	5.6 kg / cm ²
Puncture Resistance	ASTM C1136	50 beach units	1.5 Joules
Tensile Strength	ASTM C1136	45 lbs/inch width (MD) 30 lbs/inch width (XD)	7.9 kn / m (MD) 5.3 kn / m (XD)
Caliper / Thickness	Micrometer	0.0016 inch	406 micron
Accelerated Aging	30 Days @95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790-40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0 to -.63% (MD) 0 to +.50% (XD)	0 to -.63% (MD) 0 to +.50% (XD)
Light Reflectance	ASTM C523	88.5%	88.5%

FIRE TESTING	UL 723 / ASTM E84		CAN ULC-S102M	
	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
Foil Exposed	20	30	20	30
Fabric Exposed	10	5	10	5

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%