ALPHA
high performance fabrics & composite
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☑ REVIEWED ☐ REVIEWED AS NOTED
☐ REJECTED ☐ REVISE & RESUBMIT
This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings and submittals during this review do not relieve the contractor from compliance with the requirements of the plans and specifications and applicable laws, codes and regulations. Review of a specific item shall not include review of an assembly of which the item is a component. The contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.
TEAM ARCHITECTURE
BY: dga
DATE: 06-03-16
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VR-R PLUS

DESCRIPTION Reinforced Polypropylene Film – Metalized Polyester Film

APPLICATIONS Metal Building Insulation Facing

CERTIFICATIONS Meets all criteria for ASTM C1136 Types II, IV UL 723/ASTM E84, ULC-S102M fire testing

COMPOSITION

		VALUES*	
COMPONENT	**DESCRIPTION**	**English**	**Metric**
White Film	Polypropylene	0.0011 inch	28.0 micron
Adhesive	Flame Resistant		
Reinforcement	Tri-directional Fiberglass	4/inch (MD) 4/inch (CD)	20/100 mm (MD) 8/100 mm (MD)
Film	Polyester	0.0005 inch	12.7 micron

TYPICAL PHYSICAL PROPERTIES

		VALUES*	
CHARACTERISTIC	**METHOD**	**ENGLISH**	**METRIC**
BASIS WEIGHT	Scale	13.2 lbs/1000 SF	64.1 g/SM
THICKNESS	ASTM-D-1777	0.007"	178 microns
PERMEABILITY (WVTR)	ASTM-E-96	0.02 Perms	1.15 ng/N's
BURST STRENGTH	ASTM-D-774	100 psi	7.0 kg/cm²
PUNCTURE RESISTANCE	ASTM-C-1136	300 units (79 in-lbs)	9.0 Joules
TENSILE STRENGTH	ASTM-C-1136	30 lbs/inch MD 30 lbs/inch CD	5.25 kN/m 5.25 kN/m
ACCELERATED AGING	30 days @ 95% RH, 120 °F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
TEMPERATURE RESISTANCE		-40 °F to 220 °F	-40 °C to 104 °C
WATER IMMERSION	24 hours @ 73°F (23°C)	No Delamination	No Delamination
MOLD RESISTANCE	ASTM-C-665	No Growth	No Growth
LIGHT REFLECTIVITY	ASTM-C-523	85%	85%

Physical properties are based upon nominal values. Weight / Thickness +/- 10%

FIRE TESTING

	UL723/ASTM E84/CAN ULC-S102M
	Composite
FLAME SPREAD	25
SMOKE DEVELOPED	50

DATA SHEET # 13662 REV. I DATE: 12/10/14 *All values are nominal unless otherwise specified.

Note: Alpha's metal building insulation facings are produced with plastic films containing ultraviolet (UV) inhibitors, however, intense exposure to UV sources such as direct or indirect sunlight and/or high-output UV lighting is not recommended as these will degrade the plastic film facing.