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BURNABY AIR BARRIER **Technical Data Sheet “SOYA”**

New Generation ZERO ODS **05/11/09**
CAN/ULC S705.1 (Including Amendments 1 and 2) TYPE 11

Burnaby Air Barrier “SOYA” is a two component closed cell spray-applied rigid polyurethane foam system, green in color, formulated to exceed the requirements of CAN/ULC S705.1-01 (including Amendment 1 & 2) “Standards for thermal insulation” TYPE 11 (i.e. the highest LTTR R value classification). Approved by Canadian Construction Material Centre CCMC #13244-L. **Burnaby Air Barrier “SOYA”** is applied exclusively by factory approved applicators certified by CUFCA. **Burnaby Air Barrier “SOYA”** is evaluated by an independent recognized laboratory and meets all the requirements of the National Building codes of Canada. This new ecological insulation is made from renewable vegetable oils and recycled plastic bottles as well as a **Zero Ozone Depletion Substance (ZERO ODS) content, exceeds the highest requirements for VOC with GREENGUARD Children and School® certifications.**

PHYSICAL PROPERTIES

<u>Method</u>	<u>Description</u>	<u>Value</u>
ASTM D-1622	Density	34-37 Kg/m ³ / 2.1-2.3 lb/ft ³
ASTM C-518	Initial Thermal Resistance, 25.4 mm	1.25 RSI/25 mm / R7 / 1”
	Aged Thermal Resistance 180 days @ 23 ⁰ C	1.15 RSI/25 mm / R7 / 1”
CAN/ULC S 770	Long Term Thermal Resistance (LTTR) Type 11	1.02 RSI/25.4 mm / R6
ASTM D-2856	Open Cell Content (%)	<1%
ASTM D-1621	Compressive Strength (10%)	195 kPa / 28.3 psi
ASTM D-1623	Tensile Strength	355 kPa / 51.5 psi
ASTM D-D2842	Volumetric Water Absorption %	0.8%
ASTM E-96	Water Vapour Presence (core), 50 mm	37 ng/Pa.s.m ² / .65 Perms
CCMC O7273	Air Barrier Material, 25 – 30 mm	0.00004 L/s/m ² @ 75 Pa
CAN/ULC S102	Flame Spread Classification	200
	- FSC-1 (Tunnel)	32
	- FSC-2 (Corner)	200
	- Smoke Developed SD1	396
CAN/ULC S101-04		Passed
ASTM D2126	Dimensional Stability, 28 days (% Volume Change, sample without skin)	
	-20°C	-0.03%
	80°C	+2.9%
	70°C, 97% R.H.	+9.8%
CAN/ULC S774	VOC Emissions from polyurethane foam	Conform 24 hrs.
ASTM C 1338	Fungi Resistance, 28 days	No Fungal Growth
GREENGUARD	Indoor Air Quality®	Certified
GREENGUARD	Children & Schools®	Certified
	Conforms to the LEED program	