



AIR-INS inc.

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**AIR PERMABILITY TESTS
RESULTS (R&D)**

**AIR-INS Project no.: AI-01645-A
Date: June 26th 2000**

MATERIAL: INSULATION MATERIAL WITH A TARPAPER

CUSTOMER: ICYNENE INC.

**PREPARED FOR: MR. JAMES MAGUIRE
5805 WHITTLE ROAD, UNIT 110
MISSISSAUGA, ONTARIO
L4Z 2J1**

Mr. Maguire,

This letter is to inform you of the air permeability tests that were performed in accordance with A.S.T.M. E-283 on two specimens of your insulation material. Each specimen included a surrounding wood frame with a centre cross member.

The specimen assembly is shown in the following photograph.

PHOTOGRAPH OF THE SPECIMEN ASSEMBLY





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The results are summarized by the table below.

PRELIMINARY TEST RESULTS (R & D)

SAMPLE NUMBER	EXPOSED AREA	DESCRIPTION	TEST PRESSURE	AIR LEAKAGE PER AREA UNIT (INFILTRATION)
	m ²		Pa	l/s•m ²
Sample #1	1.0 (10.76 ft ²)	Insulation material with a tarpaper* of 0.8 mm (0.0315 in.). The average insulation thickness is equal to 133.4 mm (5.25 in.).	75 (1.57 psf)	0.0049 L/s-m ² (0.0010 ft ³ /min-ft ²)
Sample #2	1.0 (10.76 ft ²)	Insulation material with a tarpaper* of 0.8 mm (0.0315 in.). The average insulation thickness is equal to 82.6 mm (3.25 in.).	75 (1.57 psf)	0.0080 L/s-m ² (0.0016 ft ³ /min-ft ²)

* The tarpaper is discontinuous at the centre part.

These tests demonstrates that both samples of your insulation material meet the requirements of section 5.4.1.2 of the Canada National Building Code, where all sheet and panel type materials intended to provide the principal resistance to air leakage shall have an air leakage characteristic not greater than 0.02 l/(s•m²) measured at an air pressure difference of 75 Pa.

We trust the above is satisfactory. Please do not hesitate to contact us, if you have any questions regarding this project.

Yours truly,

Air-Ins Inc.



Jean Miller, E.I.T.



Armand Patenaude, Eng., M.S.