EXCERPTS FROM CHIEL EPS FOAM BEAD RESIN TESTING DOCUMENT NO. 3025950-1

RE. EPS FOAM VAPOUR PERMEANCE TESTING OF NUDURA EPS FOAM TO ASTM E-96

AS A COMPONENT OF NUDURA™ INTEGRATED BUILDING TECHNOLOGY INSULATED CONCRETE FORMS

CONDUCTED AT PLASTIQUES CELLULAIRES POLYFORM MANUFACTURING FACILITY



NOTE:

ON NOV 1st, 2002, THE COMPANY FORMERLY KNOWN AS "AIM BUILDING PRODUCTS INC." BECAME INCORPORATED UNDER THE COMPANY NAME OF "NUDURA CORPORATION"

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Description

Foam Description:

Nudura I.C.F. High Performance Wall System Insulating Concrete Forms

manufactured at Plastiques Cellulaire Polyform Granby, Quebec.

Material:

Expanded polystyrene foam manufactured from one (1) bead type identified as

Starex SF-301H Cheil Industries.

Foam Panel Dimensions:

18" high X 96" long X 2-5/8" thick each side

Color:

Green

Web Description:

Polypropylene reinforcing webs are cast into EPS foam to create a positive

connection between interior and exterior EPS walls and to serve as an anchor

point for surface finishing materials.

Web Material:

Injection Molded Polypropylene manufactured by Polymax, Granby Quebec

Web Spacing:

Every 8" (203 mm) horizontally

Web Color:

Black

Summary of Test Results

Starex SF-301H Cheil Industries

Property	CAN/ULC-	Requirement	Result	Comment
1	S701-01	!		i
i	Requirement			
	Number		_	
Flexural	5.1.1 table 1	Min 240 kPa	276 kPa (40.1 lb/in²)	Met
Strength			 	requirement
Compressive	5.1.1 table 1	Min. 110 kPa	128 kPa (18.6 lb/in²)	Met
Strength		·		requirement
Water	5.1.1 table 1	<300 ng/Pa.s.m² @ a	96 ng/Pa.s.m² @ a	Met
Vapour		thickness of 25 mm	thickness of 25 mm	requirement
Permanence			1 	
Dimensional	5.1.1 table 1	Max. 1.5%	-0.47% Max. change	Met
Stability	1			requirement

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Test Results

1. Water Vapour Permeance: ASTM E 96

Starex SF-301H Cheil Industries

Sample #1	Sample #2	Sample #3	Average
25.0	25.5	25.0	
0.027	0.027	0.027	
312	312	312	-
23	23	23	
53	53	53	
2810.4	2810.4	2810.4	
*3.94	4.13	4.88	
0.468	0.490	0.579	
87	91	<u> </u>	95
		<u> </u>	
2.18	2.32	2,70	
87	93	108	96
	<u> </u>	1	
			<300ng/Pa.s.m ²
			@ a thickness
		1	of 25 mm
	25.0 0.027 312 23 53 2810.4 3.94 0.468 87	25.0 25.5 0.027 0.027 312 312 23 23 53 53 2810.4 2810.4 *3.94 4.13 0.468 0.490 87 91 2.18 2.32	25.0 25.5 25.0 0.027 0.027 0.027 312 312 312 23 23 23 53 53 53 2810.4 2810.4 2810.4 *3.94 4.13 4.88 0.468 0.490 0.579 87 91 108 2.18 2.32 2.70