

BUILDING PRODUCTS LISTING PROGRAM

Customer: Icynene, Inc.
 Class: Thermal Insulation
 Location: Mississauga, Ontario, Canada
 Website: www.icynene.com

Listing No. B1056-1
 Project No. B1056-1 Edition 2

Effective Date: November 6, 2014
 Last Revised Date: March 30, 2017

Standards: ASTM E84 "Standard Test Method for Surface Burning Characteristics of Building Materials"
 CAN/ULC-S102 "Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies".
 ASTM E119 "Standard Test Methods for Fire Tests of Building Construction and Materials".
 CAN/ULC-S101 "Standard Test Methods for Fire Tests of Building Construction and Materials".
 NFPA 285 "Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components".

Product: Spray applied polyurethane foam insulation of the following models:

Icynene Product	Icynene Model No.	Patriot Spray Foam, Inc. Product
Classic	LD-C-50™	N/A
Classic Max	LD-C-50™ V2	Patriot 500 HY
Classic Max Select	LD-C-50™ V2.4	Patriot 500
Classic Plus	LD-C-70™	N/A
Classic ECO	LD-R-50™	N/A
Pro Seal	MD-C-200™ V3	Patriot 200
Pro Seal ECO	MD-R-210™	Patriot 200 ECO

Markings: Each panel is marked with a permanent label containing the following information:

- a) Manufacturers name or recognized trademark
- b) Manufacturing address
- c) Product name
- d) Lot number
- e) QAI file number: B1056-1
- f) QAI logo shown here:



Models / Ratings: The following outlines Icynene Inc. spray applied polyurethane foam insulation performance determined in accordance with the noted standards. The ratings outlined in the some of the tables below are achieved in assemblies that are defined in the QAI Design Listings.

ASTM E84 - Surface Burning Characteristics

Models		Maximum Density	Maximum Thickness	Flame Spread Index (FSI)	Smoke Development Index (SDI)
Classic	LD-C-50™	0.55 lbs/ft ³ (9 kg/m ³)	4" (100 mm)	≤ 25	≤ 450
Classic Max	LD-C-50™ V2				
Classic Max Select	LD-C-50™ V2.4				
Classic Plus	LD-C-70™				
Classic ECO	LD-R-50™				
Pro Seal	MD-C-200™ V3				
Pro Seal ECO	MD-R-210™	2.3 lbs/ft ³ (37 kg/m ³)			

CAN/ULC-S102 - Surface Burning Characteristics

Models		Maximum Density	Maximum Thickness	Flame Spread Index (FSI)	Smoke Development Index (SDI)
Classic	LD-C-50™	0.55 lbs/ft ³ (9 kg/m ³)	2" (50 mm)	40	275
Classic Max	LD-C-50™ V2				
Classic Max Select	LD-C-50™ V2.4				
Classic Plus	LD-C-70™	0.77 lbs/ft ³ (12 kg/m ³)	3" (75 mm)	50	110
Pro Seal	MD-C-200™ V3	2.2 lbs/ft ³ (35 kg/m ³)	2" (50 mm)	45	325

ASTM E119/CAN/ULC-S101 – Non-loadbearing Walls and Partitions

QAI Design #	Models		Maximum Density	Maximum Thickness	Fire Endurance Period
B1056-1a	Classic	LD-C-50™	0.55 lbs/ft ³ (9 kg/m ³)	6" (150 mm)	1 hour
	Classic Max	LD-C-50™ V2	0.55 lbs/ft ³ (9 kg/m ³)		
	Classic Max Select	LD-C-50™ V2.4	0.55 lbs/ft ³ (9 kg/m ³)		
	Classic Plus	LD-C-70™	0.77 lbs/ft ³ (12 kg/m ³)		
	Classic ECO	LD-R-50™	0.55 lbs/ft ³ (9 kg/m ³)		
B1056-1d	Pro Seal	MD-C-200™ V3	2.2 lbs/ft ³ (35 kg/m ³)	6" (150 mm)	1 hour
B1056-1e	Pro Seal ECO	MD-R-210™	2.3 lbs/ft ³ (37 kg/m ³)	6" (150 mm)	2 hour
B1056-1f	Pro Seal ECO	MD-R-210™	2.3 lbs/ft ³ (37 kg/m ³)	6" (150 mm)	3 hour

ASTM E119/CAN/ULC-S101 – Restricted*-loadbearing Wall

QAI Design #	Models		Maximum Density	Maximum Thickness	Fire Endurance Period
B1056-1b B1056-1c	Classic	LD-C-50™	0.55 lbs/ft ³ (9 kg/m ³)	2-1/4" (57 mm)	1 hour
	Classic Max	LD-C-50™ V2	0.55 lbs/ft ³ (9 kg/m ³)		
	Classic Max Select	LD-C-50™ V2.4	0.55 lbs/ft ³ (9 kg/m ³)		
	Classic Plus	LD-C-70™	0.77 lbs/ft ³ (12 kg/m ³)		
	Classic ECO	LD-R-50™	0.55 lbs/ft ³ (9 kg/m ³)		

*Restricted-Load Bearing - Load rating for this assembly was 1,805 pounds per stud

NFPA 285 – Exterior Non-loadbearing Walls

QAI Design #	Models		Maximum Density	Maximum Thickness
B1056-1g	Classic	LD-C-50™	0.55 lbs/ft ³ (9 kg/m ³)	6" (150 mm)
	Classic Max	LD-C-50™ V2	0.55 lbs/ft ³ (9 kg/m ³)	
	Classic Max Select	LD-C-50™ V2.4	0.55 lbs/ft ³ (9 kg/m ³)	
	Classic Plus	LD-C-70™	0.77 lbs/ft ³ (12 kg/m ³)	
	Classic ECO	LD-R-50™	0.55 lbs/ft ³ (9 kg/m ³)	
	Pro Seal	MD-C-200™ V3	2.2 lbs/ft ³ (35 kg/m ³)	
	Pro Seal ECO	MD-R-210™	2.3 lbs/ft ³ (37 kg/m ³)	

Notes: Final acceptance of the product in the intended application is to be determined by the authority having jurisdiction.

Products must be installed with the manufacturer's published installation instructions and in accordance with the building codes recognized by the authority having jurisdiction.

Listed manufacturers are subject to on-going inspections by QAI to ensure that the products outlined above remains as it is listed.

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