

BUILDING PRODUCT LISTING PROGRAM

Customer: PHT Cooling Limited O/A ABN REFRIGERATION MANUFACTURING
Class: Insulated Metal Panels
Location: Vaughan, Ontario, Canada

Listing No. B1163-1
Project No. B1163-1, Edition 1

Effective Date: September 2, 2025
Last Revised Date: September 2, 2025

Standards: CAN/ULC-S102-18 "Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies."
ASTM C518-21 "Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus".

Product: Insulated Metal Panels (IMP) for walk-in coolers and freezers of the following types:

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

- a) Manufacturers name or recognized trademark
- b) Product name
- c) Traceability code.
- d) QAI file number: B1163-1
- e) CAN/ULC-S102 Flame Spread Index and Smoke Developed Index
- f) Panel thickness requirements.
- g) QAI logo shown here:



Models / ABN IMP have the following performance properties when evaluated per CAN/ULC
 Ratings: S102:

Model(s)	Flame Spread Index	Smoke Developed Index	Thickness Max. (mm)	Density Max. (kg/m ³)
Foam Core (W/O Steel Skin)	≤ 500 ¹	500+	103	37.5
Panels (with Steel Skin ²)	≤ 50	500+	103	37.5 (core)

1: Flame spread determined in accordance with CAN/ULC-S127 as required by CAN/ULC-S102 for thermosetting charring foam.

2: Joint treatment included silicone bead along full length of joint. Finished panel joints require silicone sealant applied in a continuous bead at joints between panels. Fastening with screws at top and bottom joints shall be required.

ABN IMP have the following thermal resistivity and minimum thickness required for compliance with National Resources Canada (NRCan) Energy Efficiency Regulation requirements when evaluated per ASTM C518 for applications noted¹:

APPLICATION		THERMAL RESISTIVITY m ² K/W (hr ² ft ² °F / Btu ² in)	REQUIRED MINIMUM THICKNESS, mm (inches)
Walk-In Cooler Mean 12.8°C (55°F)	Structural (Wall)	47.8 (6.89)	92 mm (3.75 in) @ RSI 4.40 m ² K/W
	Floor		102 mm (4 in) @ RSI 4.93 m ² K/W
Walk-In Freezer Mean -6.7°C (20°F)	Structural (Wall)	54.5 (7.86)	102 mm (4 in) @ RSI 5.64 m ² K/W
	Floor		90 mm (3.75 in) @ RSI 4.93 m ² K/W

Note 1: Evaluation was conducted in accordance with 10 CFR-2017, Part 431, Subpart R, Appendix B.

Notes: 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 remain as they are listed.

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