



650 Series

Technical sheet

Structural Insulating Panels

Product Description

Product Name	Polyisocyanurate Insulation Boards
Brand	650 Series
Panel Type	Roof
Composition	2 OSB CSA 0325, 7/16 + foam polyiso injected in the center
Standard dimensions	4×8', 4×9', 4×10', 4×12'
Thickness	6.625"
Thickness tolerance and Squareness	1/8"
Density	46-50 kg/m ³

Thermal Performance

Panel only:
Element C518 laboratory test

• Thermal Resistance	49.225 °F·ft²·h/BTU
• Thermal Conductivity	0.134 BTU·in/h·ft²·°F
• Thermal Resistivity	7.444 °F·ft²·h/BTU·in

Full composition

1. Exterior air film	0.17
2. PIS (Prestige) 6.5"	49.23
3. Air space (1×3 à 16"c/c)	0.51
4. Air space (2×4 à 16"c/c)	1.02
5. Gypsum 1/2"	0.44
6. Interior air film	0.17

Total "R" factor	51.54
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Mechanical performance

Reference to the technical specifications for L2C structural insulated panels.

Flame retardant properties

CAN/ULC S102 and CAN/ULC S127

1. Flame spread rating	80
2. Smoke developed classification	362

ASTM E84

1. Flame spread rating	5
2. Smoke developed classification	300

Compliance with current standards

- ASTM C1289-17
- CAN/ULC C-S704.1-2017
- CAN/ULC S102 ref. CAN/ULC S127
- ASTM E84-21
- ASTM C518-21

Application and installation

Application areas	Roof
Installation method	Refer to our installation manual

Advantages

- Excellent thermal performance
- High compressive strength
- Lightweight and easy to handle
- Low Global Warming Potential blowing agents (less than 1)
- Low flame spread
- Timeless material
- Reduced management of materials on site

Precautions for use

Handling	Handle our panels with care and use appropriate personal protective equipment to ensure maximum safety on the construction site.
Storage	Store our panels outdoors or indoors in a dry, cool, covered place, protected from direct sunlight.

Insulation Type	450	550	650	Mineral Wool	Wool Rock	Wool Cellulose	Extruded Insulation
Panel Thickness	4 1/2"	5 1/2"	6 1/2"	5 1/2"	5 1/2"	5 1/2"	6 1/2"
Total Wall Thickness	8 3/4"	9 3/4"	10 3/4"	9 1/4"	9 1/4"	9 1/4"	10 3/4"
Insulation Rating	R-32.325	R-41.50	R- 49.23	R-20	R-21.60	R-19	R-24
Total Wall Rating	R-36.275	R-43.81	R-51.54	R-26.93	R-28.53	R-25.93	R-27.95