



## PRODUCT DATA SHEET

# Sarnatherm CG

RIGID CLOSED CELL POLYISOCYANURATE INSULATION BOARD WITH COATED GLASS FACERS

### PRODUCT DESCRIPTION

Sarnatherm CG is a rigid closed cell polyisocyanurate insulation board with coated glass facers, and is suitable for use in new construction and re-roofing with Sarnafil® or Sikaplan® membranes.

### WHERE TO USE

Wherever insulation is required within a conventional roof assembly to achieve specified thermal resistance.

### AREAS OF APPLICATION

- New Roofs
- Recover Roofs
- Mechanically Attached Systems
- Adhered Systems

### CHARACTERISTICS / ADVANTAGES

- Manufactured with no CFCs or HCFCs
- Virtually no GWP (Global Warming Potential)
- Zero ODP (Ozone Depletion Potential)
- Recognized as resistant to mold growth
- Compatible with Sarnafil® and Sikaplan® membranes
- Improved coverage rates in adhered systems

### APPROVALS / CERTIFICATES

- ASTM C 1289 Type II, Class 2, Grade 2 (138 kPa (20 psi))
- ASTM C 1289 Type II, Class 2, Grade 3 (172 kPa (25 psi))
- ULC S704, Type 2, Class 3 (138 kPa (20 psi))
- ULC S704, Type 3, Class 3 (172 kPa (25 psi))
- UL 1256, 790, 263
- ULC S126, S101, S107
- FM 4450, 4470
- Miami-Dade County
- State of Florida
- CSA-A123.21

## PRODUCT INFORMATION

<b>Composition / Manufacturing</b>	Polyisocyanurate foam core with coated glass facers		
<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ 1.2 m x 1.2 m (4 ft x 4 ft)</li> <li>▪ 1.2 m x 2.4 m (4 ft x 8 ft)</li> <li>▪ Various Thicknesses</li> </ul>		
<b>Shelf Life</b>	N/A		
<b>Storage Conditions</b>	<p>Factory-applied packaging is intended only for protection during transit. When stored outdoors or on the job site, the insulation should be stacked on pallets at least 102 mm (4") above ground level and completely covered with a weatherproof covering such as a tarpaulin. The temporary factory-applied packaging should be slit or removed to prevent accumulation of condensation. Refer to PIMA Technical Bulletin 109: <i>Storage and Handling Recommendations for Polyiso Roof Insulation</i>.</p>		
<b>Thickness</b>	<b>Thickness</b>	<b>LTTR Value*</b>	<b>Flute Spanability</b>
	25 mm (1.0")	5.7	5.08 cm (2-5/8")
	38 mm (1.5")	8.6	10.16 cm (4-3/8")
	44 mm (1.75")	10.0	10.16 cm (4-3/8")
	46 mm (1.8")	10.3	10.16 cm (4-3/8")
	51 mm (2.0")	11.4	10.16 cm (4-3/8")
	64 mm (2.5")	14.4	10.16 cm (4-3/8")
	66 mm (2.6")	15.0	10.16 cm (4-3/8")
	76 mm (3.0")	17.4	10.16 cm (4-3/8")
	78 mm (3.1")	18.0	10.16 cm (4-3/8")
	89 mm (3.5")	20.5	10.16 cm (4-3/8")
	97 mm (3.8")	22.3	10.16 cm (4-3/8")
	102 mm (4.0")	23.6	10.16 cm (4-3/8")
	108 mm (4.25")	25.2	10.16 cm (4-3/8")
	109 mm (4.3")	25.5	10.16 cm (4-3/8")
	114 mm (4.5")	26.8	10.16 cm (4-3/8")
	<small>* LTTR (long term thermal resistance) values are based on ULC-S770-09. Test samples were third-party selected and tested by an accredited material testing laboratory. The LTTR results were reviewed by FM Global and certified by the PIMA Quality Mark Program.</small>		

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	138 kPa (20 psi) 172 kPa (25 psi)	(ASTM D-1621)
<b>Dimensional Stability</b>	< 2%	(ASTM D-2126)
<b>Reaction to Fire</b>	Flame Spread: 25 – 60* Smoke Development: 50 – 170*	(ASTM E-84)
	<small>* Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of ≤ 75 and smoke development ≤ 450 meet code requirements for foam plastic roof insulation. Codes exempt foam plastic insulation when used in FM 4450, UL 1256, ULC S126.</small>	
<b>Permeability to Water Vapour</b>	< 229 ng/(Pa·s·m <sup>2</sup> ) (4 perm)	(ASTM E-96)
<b>Water Absorption</b>	< 1.5%	(ASTM C-209)
<b>Service Temperature</b>	-73 °C to 121 °C (-100 °F to 250 °F)	

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## OTHER DOCUMENTS

### Availability

Sarnatherm CG is available directly from Sika Canada Authorized Applicators when used within a Sika® Sarnafil® Roofing or Waterproofing System. Contact Sika Canada or visit our website at [www.sika.ca](http://www.sika.ca) for further information.

### Warranty

Upon successful completion of the installed roof by the Sika Canada Authorized Applicator, Sika Canada can provide a Warranty to the Building Owner via the Authorized Applicator.

## ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

Sarnatherm CG is installed by a Sika Authorized Applicator. Sarnatherm CG may be installed by mechanical-attachment to the roof deck with Sarnafasteners and Sarnaplates and/or by attachment with Sarnacol Board Adhesive depending on project requirements and specifications. Roof insulation which has become wet or damaged should be removed and replaced with solid, dry insulation. Contact Sika Canada – Roofing Technical Department regarding alternative methods of attachment.

## MAINTENANCE

Standard maintenance of Sarnafil® or Sikaplan® systems should include regular inspections of flashings, drains, and termination sealants at least twice a year and after each storm.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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### Other locations

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

### Product Data Sheet

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