1. Product Name
ISOGLASS
Coated Glass
Polyisocyanurate Insulation

2. Supplier
Thermomass
1000 Technology Drive
Boone, Iowa 50036
(800) 232-1748
www.thermomass.com

3. Product Description
ISOGLASS insulation combines a high-performance polyisocyanurate foam core with inorganic coated glass facers. This contributes to its strength, high R-value and moisture resistance.

BASIC USE
ISOGLASS insulation is designed for use in concrete walls (precast, tilt-up or cast-in-place), where it is sandwiched between two layers of concrete with connectors holding together the finished wall. The polyisocyanurate core provides superior insulation, while the inorganic coated glass facer contributes to moisture resistance. Because the facings are composed of an inorganic coated glass mat, ISOGLASS will not corrode or react chemically with concrete.

SIZES
Width and length: 4’ x 8’ (square edge)
Thickness: 1”, 1½”, 2”, 3”, 4”

4. Applicable Standards

Applicable standards include:
• C1289 – Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
• C1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
• C203 – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
• C209 – Standard Test Methods for Cellulosic Fiber Insulating Board
• E96 – Standard Test Method for Water Vapor Transmission of Materials
• D2126 – Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging

Table 1: Physical Properties of ISOGLASS Insulation

<table>
<thead>
<tr>
<th>Property and Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Resistance(1), per inch, ASTM C518 @ 75°F mean temp., ft²•°F/Btu, R-value, min.</td>
<td>6.2</td>
</tr>
<tr>
<td>Compressive Strength(2), ASTM D1621, psi, min.</td>
<td>25.0</td>
</tr>
<tr>
<td>Flexural Strength, ASTM C203, psi, min.</td>
<td>55.0</td>
</tr>
<tr>
<td>Water Absorption, ASTM C209, % by volume, max.</td>
<td>0.7%</td>
</tr>
<tr>
<td>Water Vapor Permeability, ASTM E96, perms, max.</td>
<td>1.2</td>
</tr>
<tr>
<td>Maximum Use Temperature, °F</td>
<td>250</td>
</tr>
<tr>
<td>Dimensional Stability, ASTM 2126, %linear change.</td>
<td>&lt;0.2%</td>
</tr>
</tbody>
</table>

1. All test specimens were conditioned in accordance with procedures outlined in ASTM C1289.
PHYSICAL AND CHEMICAL PROPERTIES
ISOGLASS insulation exhibits the properties and characteristics indicated in Table 1 when tested as represented.

ENVIRONMENTAL DATA
ISOGLASS insulation is manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP).

FIRE PROTECTION
ISOGLASS insulation is combustible; protect from high heat sources. For more information, consult MSDS, call Thermomass at (800) 232-1748 or contact your local building inspector.

CODE AND COMPLIANCES
ISOGLASS insulation complies with the following codes:
- International Residential Code (IRC 2012)
- International Building Code (IBC 2012)

Application and system code requirements vary.

5. Installation
ISOGLASS insulation is lightweight and easy to handle, cut and install.
In concrete wall applications, the insulation boards are sandwiched between two concrete layers and the assembly is held together with connectors.

6. Availability
ISOGLASS is sold by Thermomass and shipped to job sites and warehouses via flatbed trailer.
For more information, please call (800) 232-1748.

7. Warranty
Not applicable.

8. Maintenance
Not applicable.

9. Technical Services
Thermomass can provide technical information regarding the physical properties of ISOGLASS coated glass polyisocyanurate insulation.
Technical personnel are available to assist with any insulation-related question.
For assistance, please call (800) 232-1748.

10. Filing Systems
- www.thermomass.com

IN THE U.S.: For Information: 1-800-232-1748

THERMOMASS
1000 Technology Drive, Boone IA 50036

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COMBUSTIBLE: Protect from high heat sources. Local building codes may require a protective or thermal barrier. For more information, consult MSDS and/or call Thermomass at (800) 232-1748.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including Thermomass can give assurance that mold will not develop in any specific system.