1. Product Name
ISOMASS
Rigid Polyisocyanurate Insulation

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

3. Product Description
ISOMASS insulation combines a high-performance polyisocyanurate foam core with a multiplex kraft/aluminum/poly facer. This contributes to its strength, high R-value and moisture resistance.

BASIC USE
ISOMASS 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 facer contributes to moisture resistance. Because it has no exposed metal facings, the ISOMASS facer will not corrode or react chemically with the concrete wall.

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>
<thead>
<tr>
<th>Table 1: Physical Properties of ISOMASS Insulation</th>
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<tbody>
<tr>
<td>Property and Test Method</td>
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<tr>
<td>Thermal Resistance(1), per inch, ASTM C518 @ 75°F mean temp., ft²·°F/Btu, R-value, min.</td>
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<tr>
<td>Compressive Strength(2), ASTM D1621, psi, min.</td>
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<tr>
<td>Flexural Strength, ASTM C203, psi, min.</td>
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<tr>
<td>Water Absorption, ASTM C209, % by volume, max.</td>
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<tr>
<td>Water Vapor Permeability, ASTM E96, perms, max.</td>
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<tr>
<td>Maximum Use Temperature, °F</td>
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<td>Dimensional Stability, ASTM 2126, %linear change.</td>
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1. All test specimens were conditioned in accordance with procedures outlined in ASTM C1289-07, Section 11.1.2.1
PHYSICAL AND CHEMICAL PROPERTIES
ISOMASS insulation exhibits the properties and characteristics indicated in Table 1 when tested as represented.

ENVIRONMENTAL DATA
ISOMASS insulation is manufactured with hydrocarbon blowing agents, which have no ozone depletion potential.

FIRE PROTECTION
ISOMASS 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
ISOMASS insulation complies with the following codes:

- International Residential Code (IRC 2009)
- International Building Code (IBC 2009)

Application and system code requirements vary.

5. Installation
ISOMASS 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
ISOMASS 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 ISOMASS 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.