

Building a Sustainable Future

Isocindu is the result of the partnership of two large industrial groups, Manni Group from Italy through its subsidiary Isopan a world leader in IMP manufacturing with facilities in Italy, Romania, Germany, Russia, Spain. And Cindu of Venezuela, leader in supply and installation of construction materials in Latin America

Isocindu's main mission is to supply the construction market with technological innovation applied to IMP's and guarantee efficient logistics and service in the most sustainable way from an environmental social view.

► Production Technology

- Isopan's Know-how with +50 years of experience
- 2,000,000 m² of capacity per year
- High speed shift typology
- 20 year pioneers using cyclopentane
- Nimble and precise cured of PUR and PIR foam

► Quality and Certifications

- High quality standards in materials and suppliers
- ISO quality certification
- FM approved (4880, 4881, 4471)
- Rigorous lab quality control

► On-time logistics

- Solid and rigorous delivery structure
- Just-In-Time delivery time for export
- Ideal geographical location for timely coverage



The Isopan companies, part of the Manni group, are certified under the ISO 9001 standard, processes applied in IsoCindu, using the technical equality of products, guaranteeing the demanded standards according to the reference market. Thanks to their particular characteristics, IsoCindu panels contribute to the fire protection of buildings, preventing the spread of fire and limiting its spreading (passive protection).

An Environmental Product Declaration (EPD) is a document that reports the environmental impact of a material throughout its life cycle, from the primary material extraction process, transportation to the manufacturing plant and the product manufacturing process, all based on the international standard ISO 14025.

Technology and Sustainability

We have a new-generation plant, which ensures a product of unbeatable quality that meets the toughest specifications and the best delivery times in the market. Our process has replaced chlorofluorocarbons for more than 20 years with cyclopentane, an expanding agent that evaporates at the end of the expansion process without harming the atmosphere.

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|---------------------|---------------------------|--------------------------|
| ► Food grade | ► Chemically inert | ► Low maintenance |
| ► Non-toxic | ► Antistatic | ► Washable |

Associations and Quality

Certified under ISO 9001, using technical product equality, active member of Global Cold Chain Alliance and main promoter of safety and quality in the refrigeration industry.

ISOCINDU stands in the US market as part of MCA, ensuring that our clients are purchasing insulating panels supported by the greatest building associations in the industry.



Isocindu for LEED certification

Isocindu contributes to the global challenge to improve the building sector based on an environmental sustainability perspective. Efficiency and energy savings guide IsoCindu's production management.

- Water and energy resource consumption efficiency and the use of clean energy.
- Waste management and building materials used in the production and maintenance of the building.
- The quality of the building's interior environment.
- Space building optimization and environmental impact.
- Innovation and design, such as technologies and construction models used in building construction.

Technical Features



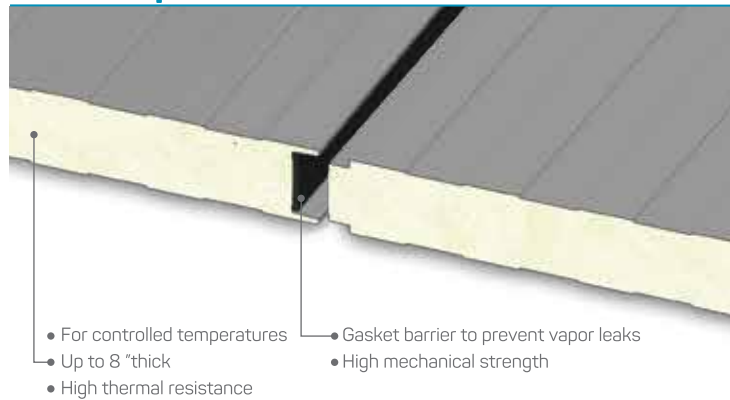
Factory Mutual Certification

Standards

Standards	Number
Approval standard for class 1 fire rating of building panels or interior finish materials	4880
Approval standard for class 1 exterior wall	4881
Approval standard for class 1 panel roofs	4471

Building insulations - wall and ceilings (FM approval class numbers 4411, 4651, 4880, 4881, 4882) **A U.S. ESR or Canadian ESL report can be provided on request for additional certifications**

Panel Specs, Features and Benefits



Standard Length:	Typical panel length is 8' up to a maximum of 54'
Width	39 3/8" / 45 1/4"
Joint:	Interconnecting male/female
Thickness:	1 1/8" 2" 2 1/2" 3" 4" 5" 6" 8"
Exterior Face	Prepainted steel
Interior Face:	Shadowline profile
Foam Density:	2.49 LB/FT ³
Exterior Finish:	Polyester coating
Interior Finish:	Polyester coating
Joint Type:	Exposed

Thermal Insulation

Panel Nominal Thickness (in)	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	4"	5"	6"	8"
R	PIR / 35 ° F (1.67 ° C) 55°F a 15°F / ASTM C518										
m²K/W	1.137	1.421	1.705	2.01	2.48	3.10	3.72	4.96	6.20	7.44	9.92
H ft F/Btu	6.456	8.070	9.684	11.44	14.08	17.61	21.13	28.17	35.21	42.25	56.34
R	PIR LEAF / 35 ° F (1.67 ° C) 55°F a 15°F / ASTM C518										
m²K/W	1.592	1.990	2.388	2.588	3.185	3.981	4.777	6.639	7.962	9.554	12.739
H ft F/Btu	9.04	11.302	13.562	14.693	18.083	22.604	27.125	36.166	45.208	54.250	72.333

Certifications

Insulated Panels:

ASTM E28: Flame Speed 25 or less
 ASTM E28: Smoke Speed 450 or less
 ASTM C518: Thermal Transmission
 ASTM D1929: Ignition Properties
 ASTM E283: Air leakage through exterior
 ASTM E331: Water penetration
 ASTM D1623: Tensile adhesion properties
 ASTM E72: Transverse load positive and negative pressure
 ASTM E661: Roof punching shear resistance
 ASTM C272: Density water absorption
 ASTM C393: Coefficient of expansion for core and facing
 ASTM E108: fire roof classification

Certified EPD (environmental Product Declaration):

Program operator: UL Environment
 Declared product: Insulated Metal Panels
 Reference PCR: Insulated Metal Panels & Metal Composite Panels, and Metal Cladding: Roof and Wall

ICC Certification:

Certificate pending, please contact your sales rep for more information.

Skin Delamination:

No skin delamination with direct pull off pressure up to 1188 psf

External face profile

