



InSoFast®

InSoFast® Insulation Panels

InSoFast Panels are EPS foam panels with built-in polypropylene studs, drainage channels/rainscreen, and electrical raceways for a fast, efficient installation. Designed to eliminate thermal bridging, these all-in-one panels provide a secure attachment point for drywall, siding, or cabinets while ensuring superior moisture control. Durable and mold-resistant, InSoFast panels install easily using standard tools—no complex framing required.

Core Features & Performance Benefits

- Continuous Insulation
- Secure attachments for interior or exterior finishes
- Moisture & Mold Resistance for Lasting Durability
- Faster Installs, Lower Labor Costs

Applications

- Metal or Wood Framed Walls
- Concrete or Masonry Walls
- Exterior Insulation
- Basements
- Floors
- Weather-Resistant Barrier

Standards & Code Compliance

- Meets ASTM C578 Type VIII
- Meets CAN/ULC-S701 Type 2
- ASTM E2273: Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS)
- NFPA 285: Fire Propagation Characteristics of Exterior Non-load-bearing Wall Assemblies Containing Combustible Components
- NFPA 286: Fire Test for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
- IBC – 15, 18, 21: International Building Code®
- IRC – 15, 18, 21: International Residential Code®
- Approved by Miami-Dade County
- Code Evaluation Report by Dr J Engineering: report No. 1910-03 available at www.drjcertification.org/ter/1910-03

Physical Properties

Property	Test Method	Value
Thermal Resistance at 75°F, R-Value (RSI)	ASTM C518	8.5-15.9 (1.50-2.80) ¹
Compressive Strength, lb (kPa) ²	ASTM D1621	13 (90)
Flexural Strength, lb (kPa)	ASTM C203	30 (208)
Foam Density pcf (kg/m3)	ASTM C303	1.5 (24.0)
Water Absorption (% by volume)	ASTM C272	3
Vapor Permeability (perm/in)	ASTM E-96	3.5
Maximum Service Temperature (Continuous), °F (°C)	-	167 (75)
Maximum Service Temperature (Intermittent), °F (°C)	-	180 (82)
Flame Spread ³	ASTM-E84	5
Smoke Developed	ASTM-E84	190

1. R-value (RSI) varies based on the thickness of the panels. See product table for specific product R-Value (RSI).
2. Tested to 10% strain deformation
3. These laboratory tests are not intended to describe the hazards presented by this material under actual fire conditions.

Allowable Loading

Substrate	Fastening Method	Test Method	Allowable Load, lb/fastener (psf) ¹	
			Withdrawal	Lateral
InSoFast® Stud	#6 Coarse Type W Screw ²	ASTM D1761	65 (-)	95 (-)
Wood Framing	#9 Type W Screw ²		95 (71) ³	35 (26) ³
CFS Stud ⁴	#10 Self Drilling Screw ²		50 (37) ³	70 (52) ³
Concrete/Masonry	Tapcon® 3 / 16" (dia.) Concrete Screw Anchors ⁵		55 (41) ³	100 (75) ³
	Loctite® PL Premium® 3X ⁶		- (40)	- (50)
Steel	Loctite® PL Premium® 3X ⁶		- (30)	- (40)

1. Pounds per square foot of InSoFast® Panels
2. Fastener calculations performed in accordance with AISI S100-16 Section J4.3.1
3. Calculations assume 12" O.C. spacing of fasteners along InSoFast® Studs. Loading may be increased by adjusting screw spacing.
4. CFS studs have a minimum thickness of 1.058" and a minimum tensile strength of 50 KSI.
5. Load capacities in accordance with Tapcon® evaluation reports and product specifications. Concrete screw anchor must provide 1" minimum penetration into masonry substrate.
6. Adhesive should be applied in a 3/8" diameter bead to the ribbed glue surface on the back side of the InSoFast® Panels. Alternatively, LaPage® PL Premium® 3X may be used.

1)

Technical Information

- InSoFast Panels are non-structural materials and must be installed on framing that is independently braced and structurally adequate to meet required construction and service loading conditions.
- InSoFast panels can be exposed to the exterior during normal construction cycles. During that time, some yellowing may begin due to UV exposure, and if exposed for extended periods of time, some degradation or “dusting” may of the polystyrene surface may begin. It is recommended that the product is covered within 60 days to minimize degradation. Once covered, the degradation stops, and the damage is limited to the thin top surface layers of cells. Cells below are generally unharmed and still useful insulation.
- Approved adhesives for attaching InSoFast® studs to concrete or steel substrates are Loctite® PL Premium® 3X and LaPage® PL Premium® 3X. No other adhesives are approved for this application.
- This product is combustible. A protective barrier or thermal barrier is required to separate this product from indoor living or conditioned spaces as specified by the appropriate building code.
- All construction should be evaluated for the necessity to provide vapor retarders. See ASHRAE Handbook of Fundamentals.



Product Options

Products	Dimensions	R-Value (RSI)	Quantity per Box	Box Coverage (sf)	Quantity per pallet
UX-2.0	2' x 4' x 2"	8.5 (1.50)	5	40	16
EXi-2.5	2' x 4' x 2.5"	10.6 (1.87)	5	40	12
MAX-3.75	2' x 4' x 3.75"	15.9 (2.80)	6	48	8

Warranty and Disclaimer of Liability

InSoFast® panels are warranted to be free from manufacturing defects arising from workmanship or defects in material which may cause the InSoFast® panels to be unusable as an insulating material. This warranty is effective only if the InSoFast® panels are installed in accordance with the Installation Manual, or any other installation instruction or guidelines published by InSoFast®, LLC, and local building codes, and only if InSoFast®, LLC has received written notice of defects within 30 days of the first discovery of a defect but in any event no later than within one year of the date of shipment by InSoFast®, LLC. EXCEPT AS EXPRESSLY SET FORTH ABOVE, INSOFAST, LLC MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, IN FACT OR IN LAW, INCLUDING, WITHOUT LIMITATION, THE WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. No person has any authority to bind InSoFast®, LLC to any affirmation, representation, or warranty concerning InSoFast® panels except as stated in this Manufacturer's Warranty. InSoFast®, LLC's liability and the purchaser's sole and exclusive remedy from alleged defects in the materials or manufacturing of the InSoFast® panels shall be limited to the replacement of an equivalent amount of product or a refund of the invoice charged up to the manufacturer's suggested retail price (as InSoFast®, LLC may elect) if payment has been made. In no event shall InSoFast®, LLC be liable for any consequential or incidental damages, losses, costs, or expenses of any person of any kind (including without limitation, loss of profits or injury to credit, reputation, or goodwill) directly or indirectly resulting from any alleged breach of warranty contained in this Manufacturer's Warranty.

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