

InSoFast® Panel Features

1. EPS Insulation

- High density, closed-cell, expanded polystyrene with fire retardant
- Rated for below grade applications, unlike open-cell bead board
- Type III Vapor Retarder
- Space saving 2" thick panel

2. Tongue and Groove

- Tongue and Groove design on all sides

3. Attachment Studs

- I-Beam style with openings to minimize heat transfer
- 1-1/2" nailing face
- Full height studs with 16" o.c spacing
- Polypropylene - 100% recycled material

4. Mechanical Attachment Points

- Three recessed attachment points per stud for mechanical fasteners, such as Tapcon® screws or Gripcon® nails

5. Ribbed Bonding Surfaces

- Located on back side of attachment stud
- Provides extra gripping surface for construction adhesive

6. Reference Lines

- Mark cutting locations to maintain running bond pattern
- Locate the center of vertical wiring chases

7. Wiring Chases

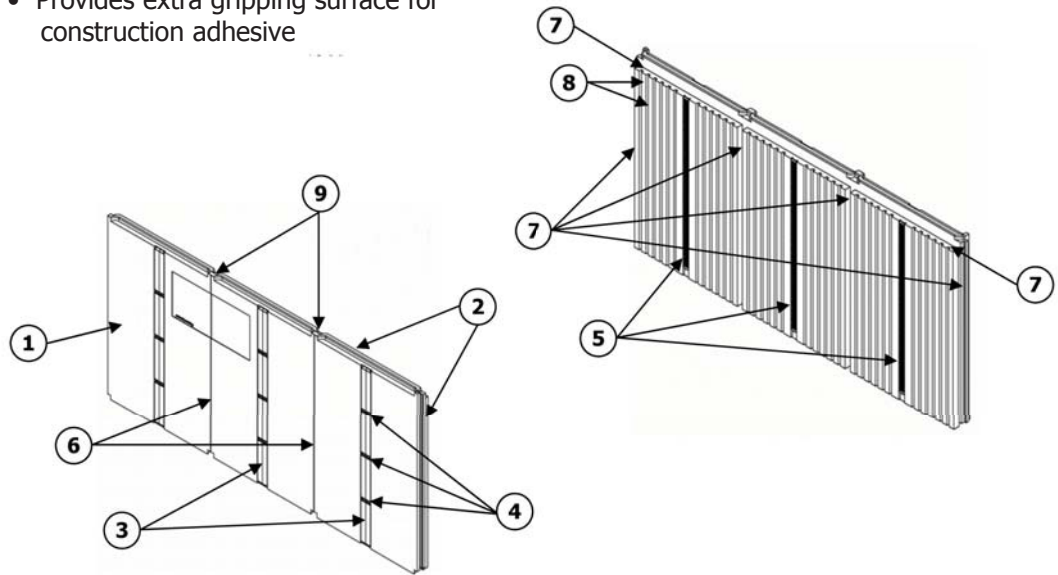
- 1-1/4" deep chases to comply with electrical codes (NEC Article 330-4d and 300-41a)
- Horizontal chases are 1" x 3/4" @ 24" o.c. when two panels are joined together
- Vertical chases are 3/4" x 3/4" @ 16" o.c.

8. Moisture Drainage Channels

- 36 vertical flashed channels for drainage

9. Alignment Notches

- Integrated into the horizontal tongue & groove
- Assure that the studs and the wiring chases stay aligned





InSoFast® Panel Benefits

EPS Insulation

- R-10 wall system does not lose R-value when subjected to moisture
- Closed-cell EPS does not wick up moisture or water
- Designated as a Class III Vapor Retarder which is not affected by moisture and provides added safety by allowing the wall system to dry either to the exterior or the interior -- use of additional vapor retarder on the interior of the wall system is generally not required (check with local code agency)
- Manufactured with fire retardant so that the EPS foam will not support combustion
- Light weight and easy to cut
- Non-irritating material, mask not required
- Recognized as a "Healthy Home" product by the American Lung Association due to the lack of CFCs or HCFCs emitted during the manufacturing process and because there is no off gassing after the panel is manufactured
- No nutrient value for mold growth

Attachment Studs

- Similar to ICFs which have been used for more than 30 years
- Continuous 1-1/2" wide by full 24" high solid attachment surface for drywall, eliminating pops
- Studs are flush with the surface of the panel for easy visibility
- When mechanically fastening InSoFast panels to the concrete wall, recessed attachment points allow for screw heads to stay below the surface of the panel, making drywall installation easier
- Ribbed bonding surface provides superior attachment for construction adhesive
- Can easily be located with a stud sensor
- No nutrient value for mold growth

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Wiring Chases

- Gridwork of chases provide easy access to pull wiring to any location
- Either romex or armored style cable can be used; conduit is not required due to the depth of the chases
- Easy to wire because boxes can be located after all panels are installed
- Additional wiring can be done even after drywall is installed
- Chases provide plenty of room for multiple wires

Moisture Drainage Channels

- Provides an extra layer of safety by helping to keep moisture safely away from the drywall
- InSoFast panels can be used in conjunction with perimeter drainage systems to channel excess moisture directly to the drainage system sealed to the floor
- While InSoFast provides moisture drainage, it is not a replacement for water proofing

Installation

- Press-in-place installation with construction adhesive
- Solid attachment, fully bonded to wall surface
- Reference lines clearly indicate the cutting line and the vertical wiring chase location
- Do-It-Yourself friendly with few tools required
- Easy to carry boxes of 11 panels easily fit down stairways or through windows (2' W x 2' H x 4' L)

Exterior Usage

- InSoFast panels can be used on the exterior for areas above and below grade. The attachment studs allow for easy attachment of siding or cement fiber board, which is used between the grade and siding to protect the insulation. Standard 2" rigid insulation can be used below grade as an alternative but provides no drainage capabilities.

Installer's Advantages: No Waste or Waiting

- Minimal material waste
- No waiting for all the materials to get hauled in
- No wasted time sorting through lumber piles
- No wasted time optimizing plate lengths
- No wasted time crowning studs
- No complicated layout to figure, just get started
- Corners don't add any waste or additional materials
- Backing is not required in the corners or partitions, saving two to three studs for each
- No waiting for insulation contractor

Distributor Advantages

- Quick Estimating
- 4' x 4' bundles 4' high
- 2 bundles per skid
- Damage resistant cardboard packaging (11 panels per pack)
- Bundles can be stacked 16' high
- Bundles can be secured to flat bed or pushed into panel trucks
- Easy to count and store

General Benefits

- Solid backed construction
- Reduced call backs for screw pops
- Fewer subcontractors - no insulation installer
- Thinner wall assembly adds floor space
- Straighter walls than conventional wood construction
- No voids; seamless continuous insulation - no studs to insulate around
- No installing fiberglass in corners during framing

Green Building Benefits

- EPS is a by-product of the petroleum industry
- EPS can be recycled and reused at the same level of thermal performance
- 100% recycleable material
- Polypropylene studs are made from 100% recycled material



InSoFast® Panel Specifications

InSoFast Panels are a closed-cell, high density expanded polystyrene panel with three integrated polypropylene attachment studs. The tongue-and-groove edge design provides tight connection between panels.

InSoFast Panel Size: 4' long x 2' high x 2" thick.

Moisture Drainage: The back side of the InSoFast panel is ribbed to provide moisture drainage channels but is not classified as a water proofing material.

Wiring Chases: Chases are located 1-1/4" below the surface of the panel and spaced 16" o.c. vertically and 24" o.c. horizontally (National Electric Code - NEC Article 330-4d and 300-41a).

Attachment Studs: Attachment studs provide solid attachment for drywall. They have no nutrient value to animals, insects, or micro-organisms. There is no nutrient value to bacterial growth including mold. Polypropylene attachment stud (ASTM D 1929, ASTM D 635, ASTM D 2843, ASTM D 638).

Closed-Cell EPS (Expanded Polystyrene): InSoFast panels are shape molded at 1.25 pcf with Type VIII - Flame Retardant Expanded Polystyrene. EPS is a moisture-resistant closed-cell foam which contains no ozone depleting CFCs or HCFCs and is 100% recyclable. No toxins or formaldehydes are produced. EPS is inert and experiences no physical or chemical breakdown over time. There is no nutrient value to animals, insects, bacteria, or mold.

Usage: InSoFast panels are a non-structural panel installed on masonry block or cast-in-place concrete. The masonry block or concrete must be structurally sound. The InSoFast panel is bonded to the masonry block or concrete with construction adhesive as per manufacturer's recommendations.

Construction Note: In most installations, InSoFast panels must be covered with a 15 minute thermal barrier (typically 1/2" drywall) or otherwise installed in accordance with applicable building code requirements.

Physical Properties	Units	ASTM Test	Type VIII EPS
Compressive Resistance at 10% Strain Deformation Flexural Strength	Min psi (kPa) Min psi (kPa)	D 1621, C 165 C 203	13.0 (90) 30.0 (208)
Thermal Resistance (R-Value) 75 +/- 2 F 40 +/- 2 F	Min R for 1" thickness	C 177, C 518	3.92 4.25
Thermal Conductivity (K-Value) 75 +/- 2 F 40 +/- 2 F	BTU/hr (Sq.Ft.) (F/in.)	C 177, C 518	0.225 (1.46) 0.235 (1.35)
Coefficient of Thermal Expansion	In./(in.)(F)	D 696	0.000035
Moisture Resistance Water Adsorption by total immersion Class III Vapor Retarder: Water Vapor Permeability of 1" thickness max perm	% by volume Max Max Perm/in	C 272 E 96	3.0 3.5
Max. Service Temperature Long Term / Intermittent	F		167 / 180
Flame Spread Smoke Developed		E84-81A E84-81A	5 @ 4" 105 - 190
Density, minimum Density, nominal	Min lb/ft	C 303	1.15 (18) 1.25

This information in this bulletin is presented in good faith, and is believed to be accurate.
All statements are made without warranty expressed or implied.



InSoFast® Testing

InSoFast Insulation Board Compliance with ICC-ES-AC116

The 3rd party testing for the InSoFast non-structural stud has been completed by Stork Twin City Testing which is an ICC-ES accredited testing facility.

The report states the following:

- ASTM D1761-06 "Standard Test for fastener Shear and Pullout"
 - The average ultimate fastener "shear" or lateral load was 403 pounds for the #6 x 1-¼" drywall screw.
 - (Design load per ICC-ES AC116 require a 75% proportional limit so the maximum allowable lateral load is 302.2 pounds per fastener)
 - The average ultimate fastener withdrawal was 211 pounds for the #6 x 1-¼" drywall screw.
 - (Design load per ICC-ES AC116 require a safety factor of 5 which brings the maximum allowable load to 42.2 pounds per fastener)
- ASTM D4541-02 "Standard test Method for Pull-off Strength of Adhesives"
 - The average ultimate Pull-Off is 108 PSI of adhesive bond for the PL brand construction adhesive.
 - Each 8' long stud section has 66 square inches of bonding area giving a bond strength of 7,128 pounds pull-off for per 8' long section stud.
 - Design load per ICC-ES AC116 require a safety factor of 5 which brings the maximum allowable load to 1,425.6 pounds pull-off for per 8' long section stud)

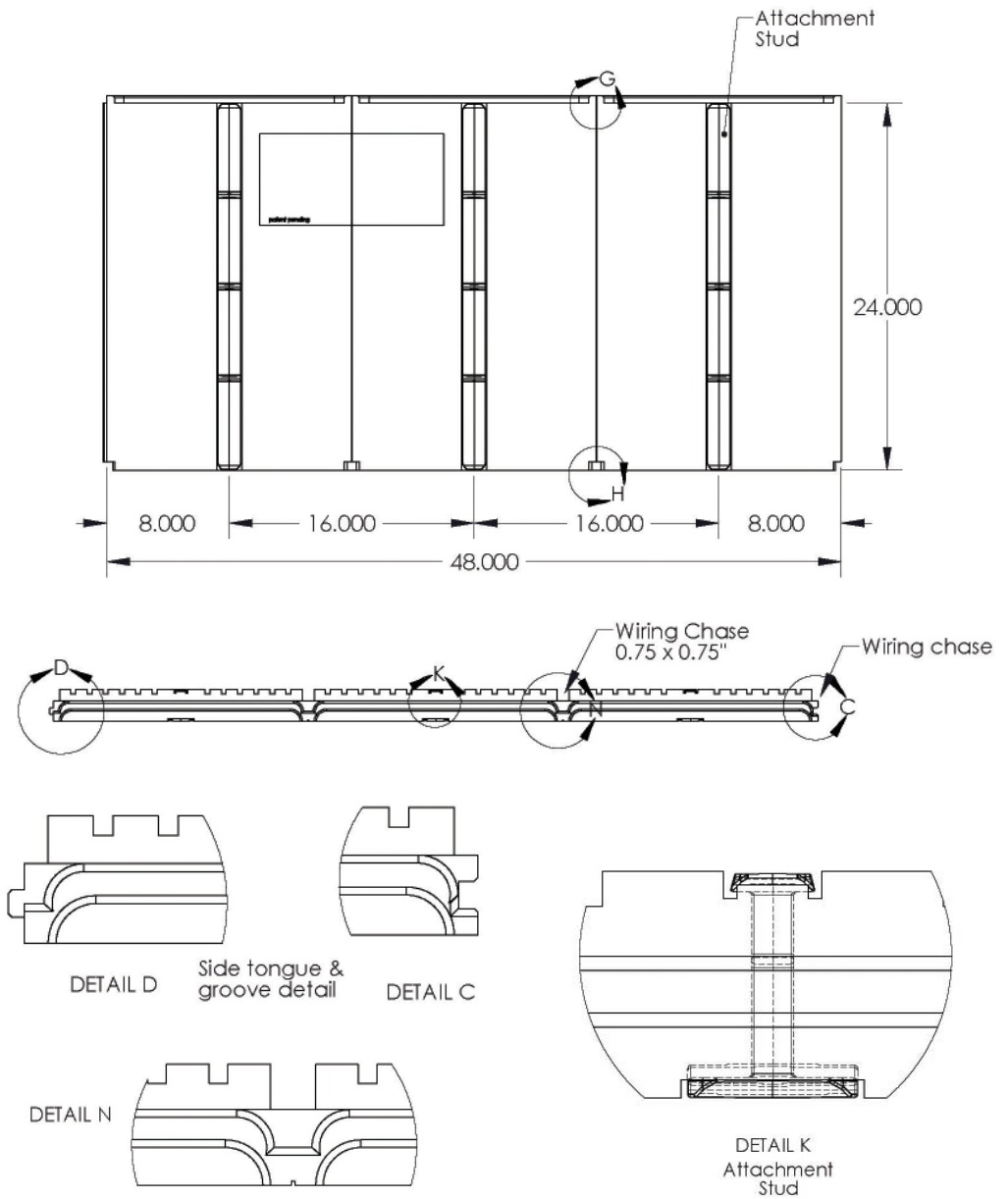
Feel free to contact William Stegeman with the Building Materials Testing Division at 651-659-7230.

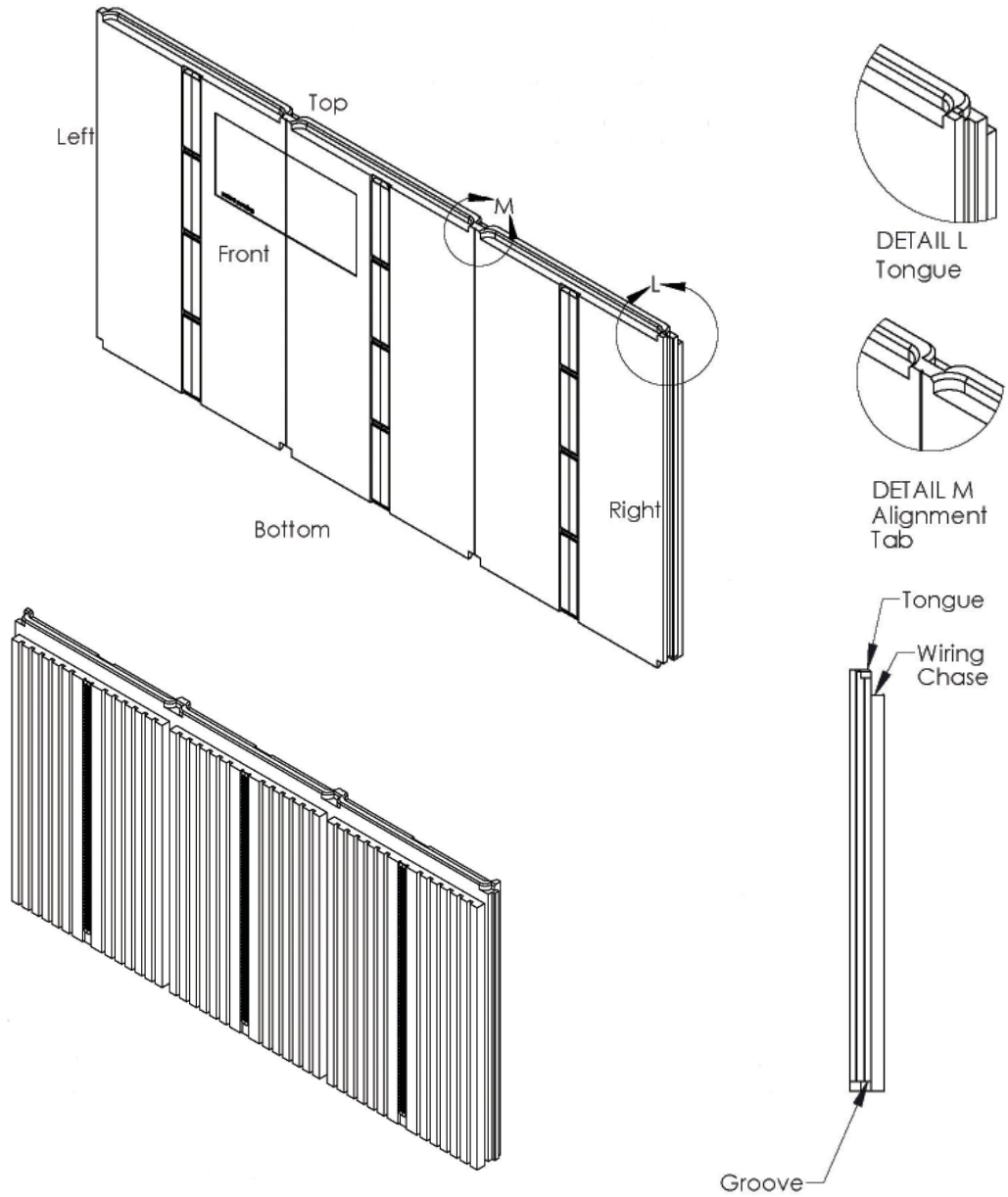
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InSoFast® CAD Drawings







InSoFast® Outperforms R-13 Fiberglass

As you will see in the charts below, InSoFast panels with a total wall assembly R-Value of 11.08 will outperform the traditional 2x4 framed wall using R-13 fiberglass insulation.

Oak Ridge National Laboratories, an independent testing facility, did a study on the actual performance of “Perfectly Installed” and real world “Typically Installed” fiberglass insulation. Their findings show that fiberglass insulated walls can fall short of their stated R-13 value by 11% to 28%.

Using the “Typically Installed” performance of fiberglass, InSoFast performs 8.4% better than the R-10.22 of the traditional wall assembly.

Component	R-Value of “Typically Installed” R-13 Fiberglass Framed Wall		InSoFast Wall Assembly
	Studs	Cavity Only	
Exterior Air Film	0.17	0.17	0.17
Concrete Foundation	1.28	1.28	1.28
3-1/2” Fiberglass Batt R-13	---	9.36*	---
3-1/2” Stud	4.38	---	---
InSoFast Stud	---	---	8.50
1/2” Drywall	0.45	0.45	0.45
Interior Air Film	0.68	0.68	0.68
Percent for 16” O.C. plus Studs	15%	85%	---
Total Wall Component R- Value	6.96	11.94	11.08
Wall Component U-Value	0.176	0.084	0.09
Total Wall Assembly R-Value	---	10.22	11.08

* Fiberglass Batts-Labeled vs. Installed Performance—Oak Ridge National Laboratory research shows that “perfectly installed” batts lose 11% of their labeled R-Value, and that “commonly installed” fiberglass batts lose 28% of their labeled R-value. [See documentation.](#)

R-Value Calculation: $Assembly\ R-Value = 1 / (Assembly\ U-Value) = 1 / (u-Studs \times \% + U-Cavity \times \%)$

[R-Value List for Building Materials](#)

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Fiberglass Batts- Labeled vs. Installed Performance

Consumer Update: Insulation Effectiveness Bulletin

Summary: Oak Ridge National Laboratory research shows that “perfectly installed” batts lose 11% of their labeled R-Value, and that “commonly installed” fiberglass batts lose 28% of their labeled R-value.¹

This study confirms tests conducted 20 years ago by fiberglass manufacturers, and reveals the surprisingly large disparity between the labeled R-value and the installed R-value of fiberglass batts.²

Who: Oak Ridge National Laboratory³

What Was Measured: The R-value results presented here are the *clear wall R-values*, which Andre Desjarlais of Oak Ridge explains, “includes the studs, top and bottom plates, sheathings and exterior façade... It does not include additional structural components around details such as corners, windows, etc.”⁴

“The *clear wall R-value*... represents the area of the wall containing insulation and only the necessary structural member away from all interface details.”⁵

Why: “To address the number one wall research need...whole wall performance was ranked by 270 private building industry contributors as the most important public sector R&D need to accelerate the development and application of energy-efficient building walls.”⁶

How: Full-size walls were constructed and tested to determine their thermal conductivity.⁷

What Did They Find: The highest tested R-value for “R-19” labeled batts before they were installed. From there, the test results dropped to R-17 and then R-13.7⁸

“R-19” batts have an R-value of 13.7 when installed as commonly found in actual walls.⁹

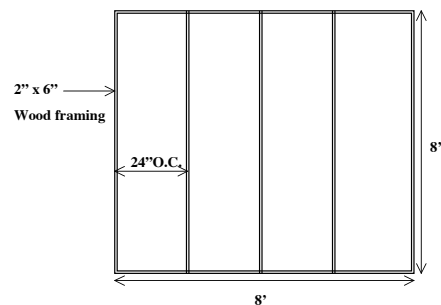


Figure 1 – Full size 8’ x 8’ wall sections were built using 2 x 6 wood framing 24” o.c. (Note that 89% of the surface area of the wall is insulated with “R-19” labeled batts and just 11% is wood framing.)

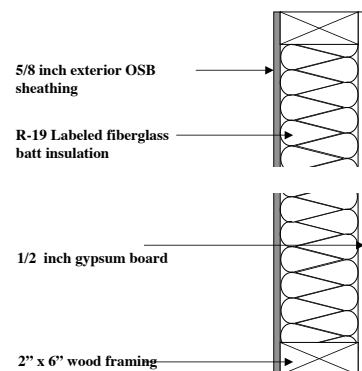


Figure 2 – The 2” x 6” wood framed wall was insulated with “R-19” labeled fiberglass batts and enclosed with 5/8 inch exterior OSB sheathing and 1/2 inch gypsum board.

Labeled vs. Installed Performance - *Explained*

Q: Did an independent laboratory conduct the tests? Who funded the tests?

A: Oak Ridge National Laboratory conducted the research. Oak Ridge is completely independent and funded by the US Department of Energy.¹⁰

Q: Why were the tests conducted?

A: According to Oak Ridge, builders, architects, designers, and homeowners want energy-efficient walls. The best way to determine how insulation systems perform is to build and test full-size walls.¹¹

Q: Can't R-values be used to compare insulation systems?

A: R-values are a good starting point – but they are the results of small, meticulously prepared laboratory samples and do not necessarily reveal how an insulation system performs once installed in actual buildings. Different insulation systems with the same laboratory “R-value” can deliver much different levels of comfort and energy efficiency.¹²

Q: What did the researchers find?

A: The researchers found that fiberglass batts deliver far less than their labeled R-value in real walls, as shown in Figures 3 and 4.¹³

Q: Where does the R-value go?

A: Technically, the “R-value” doesn't change because it is based on specific laboratory test claims by the fiberglass manufacturers. However, the Oak Ridge research reveals the following:

- “R-19” labeled fiberglass batts have an R-value of 17.4 *before they are installed*.¹⁴
- “R-19” fiberglass batts have an R-value of 17.0 when installed *perfectly* (the scientists installed the batts before installing the exterior sheathing to precisely fit the batts in place from both sides).¹⁵
- “R-19” fiberglass batts have an R-value of 13.7 when installed as commonly found in actual walls.¹⁶

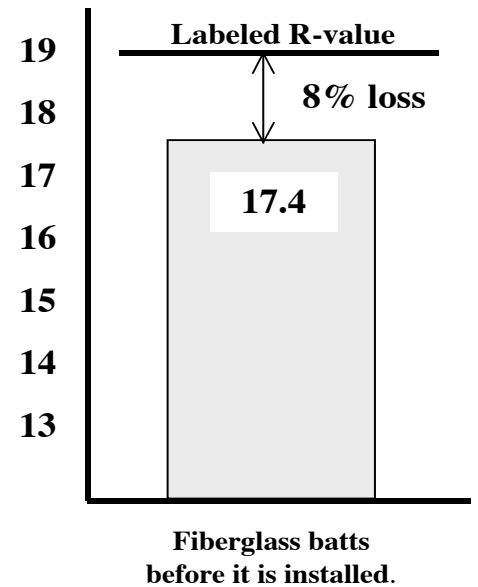


Figure 3 – Before any of the installation tests were begun, the fiberglass batts were tested and found to provide R-17.4

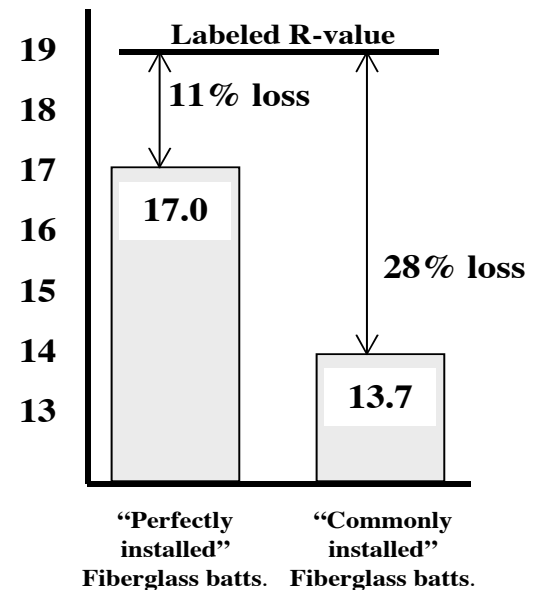


Figure 4 – Taking the framing, OSB, and gypsum board into account, the R-19 fiberglass batt insulation provided much less than its labeled R-value

Sources:

¹ J.E. Christian, J. Kosny, A.O. Desjarlasi, and P.w. Childs, “The Whole Wall Thermal Performance Calculator –On the Net”, Thermal Performance of the Exterior Envelopes of Buildings VII, 1998.

² R.M. Neisel, “A Study of the Effects of Insulation Gaps on Building Heat Losses, Final Report,” Johns-Manville Sales Corp, 1979

³ Christian, et al.

⁴ “Wall R-Values”, Personal Correspondence, 2000

⁵⁻⁹ Christian, et al.

¹⁰ D.W. Yarbrough, Telephone Conversation, 2000.

¹¹ Christian, et al.

¹² Yarbrough

¹³⁻¹⁶ Christian, et al.

Source for Figures 1-4: Christian, et al.



InSoFast® Comparison to R-13 Fiberglass

How Does InSoFast Compare to a Framed Wall with Fiberglass Insulation?

The Department of Energy is clear in its opinion that framed walls with any type of batt insulation is ineffective as a thermal barrier. InSoFast panels provides significant advantages in every important category. A wall system utilizing the InSoFast panels will outperform the framed wall with fiberglass insulation and provide a comfortable and safe living environment. InSoFast looks forward to elevating building codes beyond today's wood frame standard to a higher performance level.

A Wall System Built with InSoFast Panels outperform the Frame Wall with R-13 Insulation in 17 categories!

	Framed Walls	InSoFast Wall System
Wall System Description	A concrete wall along with a 2x4 wall framed at 16" o.c. installed with R-13 fiberglass insulation as well as a vapor barrier that is often used to keep moisture from reaching the drywall.	InSoFast panels installed against a concrete wall with a drywall finish.
Actual Thermal Performance of Wall System	R-Value of 10.22	R-Value of 11.08
Thermal Breaks	Each stud location represents a thermal short circuit in the insulating barrier, allowing moisture-filled air to pass. When wood 2x4 framing is used, 15 - 25% of the wall surface is comprised of 2x4 framing that is R-4.	InSoFast Panels are manufactured with fully insulated studs which eliminate thermal breaks. Interlocking flanges create a tight seal at each panel connection.
Moisture Effect on R-Value	Fiberglass can lose as much as 80% of its R-value when exposed to even low moisture levels, which are common below grade. Moisture leads to wood decay.	When exposed to moisture, the R-value of InSoFast Panels remains constant and will shed liquid water.
Permeability	Frame walls built with vapor barriers are impermeable, trapping moisture inside the wall cavity where moisture can lead to mold and decay.	InSoFast Panels are vapor semi-permeable and do not inhibit the walls ability to dry.

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	Framed Walls	InSoFast Wall System
Temperature Effect	Fiberglass insulation loses as much as 40% of its insulating capacity when temperatures fall below 20°F and over half its R-value below 0°F.	The thermal performance of InSoFast Panels is not degraded by changes in temperature. In fact, studies have shown R-values to improve as temperatures decrease.
Compression Effect	Fiberglass must be fully expanded to work properly. If it is stuffed into openings or compressed by plumbing or electrical wires, it loses most of its R-value.	Wires are easily installed into pre-formed channels in the InSoFast panel.
Mold and Mildew	Organic wood studs absorb moisture and support mold growth. Fiberglass insulation also absorbs moisture and promotes mold growth.	InSoFast panels do not promote mold growth. Semi-permeable panels allow moisture to dry inward as recommended by the Building Science Consortium.
Off-gassing Indoor Air Quality	Wood building materials and fiberglass insulation are often treated with preservatives and formaldehyde. Mold and airborne toxins contaminate the indoor air quality.	InSoFast panels manufactured with no ozone depleting CFCs or HCFCs. No toxins or formaldehyde is produced. The InSoFast panels are inert and experience no physical or chemical breakdown over time.
Strength & Stability	Wood frame construction exceeds strength requirements but degrades over time. Wood framing members warp and twist as moisture levels vary. Nail “pops” are common.	InSoFast panels are stable and unaffected by moisture variances. Panels exceed a 2,000# pull test. Polypropylene studs provide a stable surface with superior holding power and eliminate nail pops.
Water Absorption of Insulation	Fiberglass insulation can hold many times its weight in water. Water damaged fiberglass insulation must be removed and replaced.	The maximum adsorption by total immersion is less than 3% moisture content for the InSoFast panel. ASTM:D6817
Water Absorption of Framing Members	The standard moisture content for above grade wood framed wall is 10 - 15%. By adding just 5% more moisture, such as in a basement installation, mold will grow.	The InSoFast stud is a plastic product and will not absorb water or rot away.

	Framed Walls	InSoFast Wall System
Vapor Control	Basement walls must be able to dry. For walls built below grade, drying typically means towards the interior. Adding vapor barriers to control the moisture actually keeps the moisture from being able to dry properly. If placed directly against the masonry wall, an impermeable barrier keeps moisture from being able to dry towards the interior. If installed over the wood frame moisture is trapped inside the wall cavity causing wood to rot and mold to grow.	InSoFast Panels are a Type III Vapor Retarder and are inherently mold resistant. This type of semi-permeable foam is the perfect insulating material for basements. Moisture is able to dry inward as recommended by the Building Science Consortium.
Installing Insulation	The performance of the thermal barrier is dependent in part upon the quality of workmanship. For fiberglass insulation to work effectively, it must be in continuous contact with its surrounding surfaces on all six sides. It is virtually impossible for installers to achieve this on a job site. Even the smallest gap allows air circulation which kills the insulation value.	InSoFast Panels are installed in a consistent manner with no gaps. Tongue & groove connections and alignment notches make installations foolproof. Thermal performance is consistent.
Space Savings	The current standard of frame construction with ½” drywall and a 1” air gap requires 5”. The air gap is an attempt to keep the fiberglass from coming in direct contact with the concrete surface.	With InSoFast, every room will be larger. The panel is 2” thick including the built-in drainage channels.
Environmental Impact	Wood framing members are produced from trees and treated with preservatives. Fiberglass insulation is often produced with formaldehyde.	No trees are harvested leaving them to absorb CO2. InSoFast panels require 25% less energy to produce than fiberglass insulation. The InSoFast studs are made from 100% recycled material.
Durability - Service Life	Wood frame walls attract moisture, mold, and insects which eventually leads to wood rot and deterioration.	InSoFast Panels are not susceptible to moisture, insects, or mold and provide an unlimited service life.



InSoFast® Cost Savings -- Basements

How much will Insulating the Basement save?

According to the Department of Energy's Building America Report, an un-insulated basement can account for up to one third of the heat loss of a residential structure.

The DOE report states that by installing R-5 insulation with a total assembly R-Value 7.13 on the interior of a basement wall, the heat loss will be cut by 70%. Based on this report, installing InSoFast panels with an R-Value of 8.5 and a total assembly R-Value 11.08 will reduce the heat loss by 81%.

Example: Annual Heating Bill of \$1,000

An Un-insulated Basement accounts for up to 1/3 of Heat Cost = \$333

Insulation Type	Savings %	Heat Dollars Saved
Un-insulated Basement Heat Loss of 70%	0	\$0.00
R-5 Wall System	70%	\$231.10
2x4 with R-13 Fiberglass	79%	\$263.07
InSoFast Wall System	81%	\$269.73

InSoFast can lower your whole house heating bill and your carbon footprint by as much as 26%.

How long is the Payback for InSoFast?

InSoFast panels have a payback that starts immediately and returns the full investment in a little as six to seven years for the average basement.

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PRODUCT WARRANTY -- INSOFAST[®] PANELS

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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Foam Types and Mold Issues

What makes InSoFast panels ideal for both basement and retrofit applications, starts with the unique properties of the foam and the specialized process that it is manufactured with. **InSoFast panels are formed with high-density closed-cell foam that is not damaged by moisture.** InSoFast works to protect your structure. It's like installing a protective layer of Gortex® fabric which is noted for its ability to shed water while still being able to "breathe" and to allow drying under extreme conditions.

InSoFast panels offer an extreme advantage over other types of insulation. The common Pink or Blue type of (XPS) extruded closed-cell foam insulation board used in thickness of more than ¾" will form a vapor barrier and prevent drying of the wall system which can lead to trapped moisture problems. This also applies to any other type of insulation board with a "foil face" or "plastic skin".

- InSoFast panels work like a protective layer of Gortex® fabric
- Made of closed-cell, high density foam
- InSoFast panels maintain their insulating value even after getting wet
- No nutrient value for mold growth

Other foam products like the open cells of the low density "bead board" and even the spray in open cell foam products, including conventional fiberglass insulation, are proven to work well when kept dry. However, when exposed excess moisture or water, like in the typical basement, these systems are capable of soaking up and storing large amounts of water like a sponge. Because of the inability to shed water and dry quickly when located within conventional framing, the wood or even just the paper on the drywall is all that is needed for mold growth. **Almost 80% of lawsuits**

in the construction industry are related to moisture, water, or mold.

The fully insulated polypropylene studs of the InSoFast panel are just one more safeguard from mold. These studs which are integral in each of the InSoFast panels will not warp, rot or decay and also provide the perfect base for attaching siding or drywall eliminating screw pops. InSoFast panels are truly a user friendly, healthy, and mold resistant product for any structure.



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InSoFast® Manufacturer's Certification Statement



Patent Pending


American Recovery and Reinvestment Act of 2009

InSoFast Certification

InSoFast, LLC verifies that the InSoFast insulating panel is:

1. An insulation material or system that is specifically and primarily designed to reduce heat loss or gain of a dwelling unit;
2. May be taken into account in determining whether the building envelope requirements established by the IECC are satisfied; and
3. Is "Eligible Building Envelope Components" which qualify for a Federal Tax Credit for existing homes under section 25C of the Energy Policy Act of 2005 and the American Recovery and Reinvestment Act of 2009.

InSoFast, LLC


Edward Scherrer
President

Homeowner's Certification

The InSoFast insulating panel listed below has been installed primarily to reduce heat loss or gain in the home identified, which is the primary residence of the following taxpayer.

Homeowner/
Taxpayer Name _____

Primary Residence
Street Address _____

Social Security Number _____

City _____ State ____ Zip _____

Product	R-Value	Purchase Price	Date Purchased	Date Installed

Keep this document and any receipts with your income tax records. Do not submit with your income taxes and do not send to InSoFast. For more information, visit www.insofast.com.

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