



VERSION 20.0

**INSULATED
VAPOR BARRIER**

DIVISION
070000

PRODUCT NAME

Insul-Barrier• Insulated Vapor Barrier

MANUFACTURER

ISI BUILDING PRODUCTS
401 Truck Haven Road
East Peoria, IL 61611
866.698.6562 / www.isibp.com

PRODUCT DESCRIPTION

BASIC USE

Insul-Barrier is a blanket insulation/vapor barrier designed to provide a thermal break and moisture barrier in crawl spaces. Insul-Barrier can also reduce condensation, mold and degradation by controlling water vapor migration.

COMPOSITION & MATERIALS

A multi-layer blanket insulation, Insul-Barrier is manufactured using cross-woven polyethylene, high-density closed-cell foam, a layer of high-density polyethylene bubble and reflective aluminum. These layers combine to provide consistent thermal and moisture protection.

SIZE

Standard Sizes: 4' x 25'

WEIGHT

Approximately 10 lbs per 100 sf.

TECHNICAL DATA

APPLICABLE STANDARDS

ASTM C 1371 Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emitters

ASTM C 518-02 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials

ASTM E 1643 Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs

ASTM D 412-98 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension

ASTM D 3575 Standard Test Methods for Flexible Cellular Materials Made From Olefin Polymers

ASTM D 751 Standard Test Methods for Coated Fabrics

ASTM D 1922 Standard Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method

INSTALLATION

Instructions on architectural or structural drawings should be reviewed and followed. Detailed installation instructions can be obtained by calling the manufacturer at 866.698.6562 or visiting www.isibp.com.

WARRANTY

Warranty information can be obtained by calling the manufacturer at 866.698.6562 or visiting www.isibp.com.

MAINTENANCE

Requires no maintenance once installed.

TECHNICAL SERVICES

Technical information and detailed test results can be obtained by calling the manufacturer at 866.698.6562.

FILING SYSTEMS

Additional information can be obtained by calling the manufacturer at 866.698.6562 or visiting www.isibp.com.

PROPERTIES TEST PROCEDURE (INDEPENDENT TEST FACILITY)	TEST METHOD APPLICABLE STANDARDS	RESULTS IP UNITS
UNIT WEIGHT	N/A	10 lbs/100 sf
R-VALUE PERFORMANCE	ASTM C 1371	**SEE BELOW
TENSILE STRENGTH & ELONGATION (BUBBLE PACK)	ASTM D 412-98	136 PSI
TENSILE STRENGTH (CROSS-WOVEN POLYETHYLENE)	ASTM D 751 (GRAB)	45 lbf/in
COMPRESSION SET	ASTM D 3575-00	4.3%
COMPRESSION SET	ASTM D 3575-10-16	3.2%
BURSTING STRENGTH (BUBBLE PACK)	ASTM D 751-00 (BALL BURST)	95.1 lbf
BURSTING STRENGTH (BUBBLE PACK)	ASTM D 751-00 (MULLEN)	90 PSI
TEAR STRENGTH (CROSS-WOVEN POLYETHYLENE)	ASTM D1922 (TONGUE TEAR)	28 lbs (WARP) 33 lbs (FILL)
MAXIMUM USE TEMPERATURE	N/A	180°F
MINIMUM USE TEMPERATURE	N/A	-60°F
WATER VAPOR PERMEANCE	ASTM E 96	.002 PERMS CLASS A

R-Value Performance:

Insul-Barrier is composed of reflective polyethylene, high-density bubble pack and high-density closed cell foam. The two outside polyethylene skins protect the interior insulation materials as well as provide excellent moisture protection. Insul-Barrier is designed to separate during installation. R-values may increase or decrease slightly depending on airspace. Follow manufacturer's instructions to receive maximum R-value benefit. Insul-Barrier and the total wall assembly have been independently tested by a 3rd party testing facility for Thermal Resistance values in both summer and winter conditions. The values below are an average of the summer and winter results.

Insul-Barrier: Material - R 8.73 Wall System - R 12

** The precision of this testing is estimated to be 2.5% (ASTM C 518-10, Section 10.8). The precision for this composite with included air space is estimated to be 15%, IR Emittance for the exterior surface of the panel that forms the enclosed air space has been determined in accordance with ASTM C 1371.

DISCLAIMER: TO THE BEST OF OUR KNOWLEDGE, THE SPECIFICATION CHART LISTS TYPICAL PROPERTY VALUES AND ARE INTENDED AS GUIDES ONLY, NOT AS SPECIFICATION LIMITS. ISI BUILDING PRODUCTS MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, NO GUARANTEE OF SATISFACTORY RESULTS FROM RELIANCE UPON CONTAINED INFORMATION OR RECOMMENDATIONS AND DISCLAIMS ALL LIABILITY FOR RESULTING LOSS OR DAMAGE.



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