

DP Shield™ Cavity Wall Insulation

DP SHIELD™

DP Shield is Dyplast Products' environmentally friendly "green" polyiso sheathing designed for use in cavity walls. DP Shield is a non-ozone depleting, rigid polyiso foam board insulation manufactured with a triplex facer (foil-kraft-foil) on the front side and a foil or triplex facer on the unprinted back side. DP Shield is a high-value, cost-effective building solution.

DP Shield's high insulating R-values reduce energy demands while meeting or exceeding the energy code for your area. It has excellent moisture resistant properties and greatly reduces the potential for condensation problems. DP Shield is maintenance free.

CAVITY WALLS

Install thin profile DP Shield into the narrow cavities of masonry construction. DP Shield is easily installed as the exterior wall is being constructed. It is available cut or scored at optional 16" and 24" widths to fit between masonry ties. DP Shield is easily fabricated on the job. Block masonry wall thermal efficiency can also be supplemented by the installation of DP Shield on the interior or exterior side.

The foil-based facers shed water to help prevent moisture accumulation in the wall cavity. The stability provided by the thermoset foam core assures optimum performance at all extremes of temperatures found in a normal structure. When the board joints are sealed with a self-adhering, flashing grade tape, the DP Shield envelope also acts as an air barrier.

STORAGE

All sheathings should be stored with weather protection. If stored outdoors for any length of time, keep dry by covering completely with a waterproof tarpaulin. Store flat on pallets elevated at least 4" above the floor or ground.

SUSTAINABILITY

Concerned about the environment? So is Dyplast Products! DP Shield for use in cavity walls is non-ozone depleting. DP Shield's polyiso core has the highest R-value to thickness ratio of any commercially available insulation, which can result in energy savings with less material. All products distributed or manufactured by Dyplast Products are 100% CFC-free.

Dyplast Products is the preeminent manufacturer of polyisocyanurate and expanded polystyrene rigid foam products, and also distributes a variety of complementary products. With new world-class production facilities in Miami, Florida, Dyplast Products offers its customers unsurpassed responsiveness with a wide variety of product configurations. Our customer-focused staff, combined with our sound financial footing, ensure we deliver incomparable value to our customers far into the future. **For information on Dyplast Products or additional technical information on this product, visit our website at www.dyplastproducts.com.**

CODES AND COMPLIANCES

DP Shield installed in a cavity wall complies with the requirements of the following building codes when properly installed:

- Uniform Building Code, Section 2603
- International Conference of Building Officials, Section 2603
- International Residential Code, Section 2603 (NER-449)
- BOCA Building Code, Section 2603
- Standard Building Code, Section 2603
- Federal Specification, HH-I-1972
- ASTM C 1289 Standard for Polyiso Insulation
- California State Insulation Quality Standards and Title 25 Foam Flammability Criteria - #TC 1231
- Factory Mutual approved per ASTM E 84; report J.I. 30092226; 0.5" to 4" (13 to 102 mm) thickness at 1.5-1.9 lb/ft³ (24-30 kg/m³) core foam density, facings removed (see next page for test results)
- CAN/ULC S704-01, Type 2, Class C



Environmentally friendly HCFC Free Green Polyiso Insulation Products

WARNING

This product will burn. Do not leave exposed. This product must have ½" gypsum wallboard, or other code-approved fire barrier, installed between it and the occupied area of the building.

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diPShield TYPICAL PHYSICAL PROPERTIES

| Physical Properties | Test Method | Typical Results |
|-----------------------|-------------|--|
| Dimensional Stability | ASTM D 2126 | <2% linear change |
| Water Absorption | ASTM C 209 | <1% by volume |
| Moisture Vapor Trans. | ASTM E 96 | <One (1) Perm (57.5 ng/Pa·s·m ²) |
| Product Density | ASTM D 1622 | Nominal 2.0 pcf |
| *Flame Spread | ASTM E 84 | <75 |
| *Smoke Development | ASTM E 84 | <450 |
| Service Temperature | | -100° F to 250° F Max (-73° to 122° C) |

* Factory Mutual tested per ASTM E 84; report J.I. 30092226; 0.5" to 4" (13 to 102mm) thickness at 1.5-1.9 lb/ft³ (24 to 30kg/m³) core foam density. Tested with facings removed. These numerical values are not intended to reflect hazards presented by this material under actual fire conditions.

FOUNDATION/UNDER SLAB

Installation of diPShield offers physical properties which make this rigid insulation ideal for foundation and under slab applications. Its resistance to moisture and decay, together with its ability to withstand loading and long-term thermal requirements, make diPShield insulation a cost-effective solution to on-grade and below-grade insulation. diPShield insulation can be attached mechanically or with approved adhesives to the interior or exterior of the foundation wall. Protect diPShield from damage when backfill is performed.

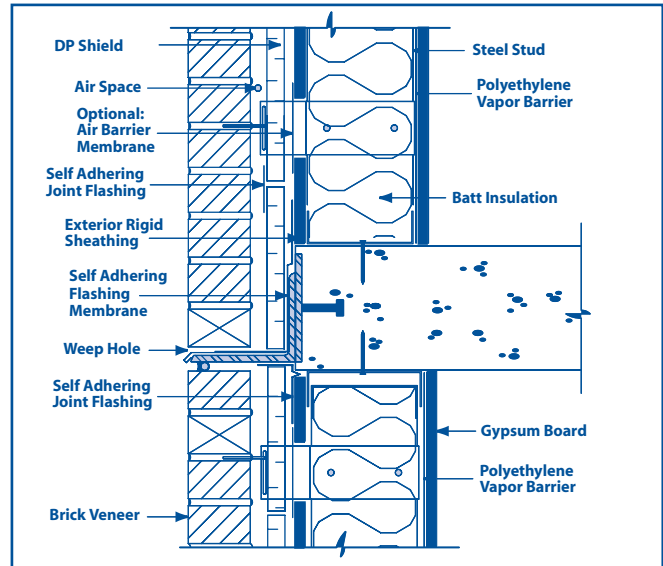
WHAT YOU SHOULD KNOW ABOUT R-VALUES

R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy. The amount of insulation you need depends on the climate you live in. Also, your fuel savings from insulation will depend on the type and size of your building, the amount of insulation already in your building, and your fuel use patterns and occupancy load. To get the marked R-value, it is essential that this insulation be installed properly.

WARRANTY

Manufacturer will replace this product at point of original destination within North America if shown not to comply with manufacturer's specifications. No responsibility is assumed for building design or construction, which is solely the responsibility of the owner, architect, engineer, or contractor.

Typical Cavity Wall Cross Section with diPShield Insulation



PRODUCT TECHNICAL DATA

| Nominal Thickness (Std. 4' x 8') | in. | 1" | 1.5" | 2.0" | 2.5" | 3.0" |
|--|-----|-------|-------|-------|-------|-------|
| | mm. | 25.40 | 38.10 | 50.80 | 63.50 | 76.50 |
| Product R-value | | 6.5 | 9.6 | 12.8 | 16.0 | 19.0 |
| System R-value* | | 9.3 | 12.4 | 15.6 | 18.8 | 21.8 |
| RSI** | | 1.14 | 1.69 | 2.25 | 2.82 | 3.34 |
| Pieces per Pkg | | 23 | 15 | 11 | 18 | 15 |
| 4' x 8' Size – Sq. Ft./Pkg | | 736 | 480 | 352 | 576 | 480 |
| 4' x 9' Size – Sq. Ft./Pkg | | 828 | 540 | 396 | 648 | 540 |
| * 2.8 R added for min. 3/4" Dead Air Space with Reflective Surface | | | | | | |
| ** RSI is metric expression of LTTR (m ² ·K/W) | | | | | | |

LIMITATIONS OF WARRANTY AND LIABILITY

Other than the aforementioned representations and warranty, Seller makes no other representations or warranties as to the insulation herein. The Seller disclaims all other warranties, expressed or implied, including the warranty of merchantability and the warranty of fitness for a particular purpose. Seller shall not be liable for any incidental or consequential damages including the cost of installation, removal, repair or replacement of this product. Buyer's remedies shall be limited exclusively to, at Seller's option, the repayment of the purchase price or re-supply of product in a quantity equal to that of the nonconforming product. Seller's agents, salespersons, or other representatives have no authority to waive or alter the above limitation of liability and remedies.

