

Closed-Cell Insulation For Efficient Building Enclosures

THERMA-SHIELD® 2004 is a two-component, closed-cell spray polyurethane foam for residential and light-commercial insulation. Formulated with a zero-ozone-depleting HFO blowing agent with GWP below 1, it combines thermal performance, material strength, and moisture resistance. The non-fibrous system is compatible with common construction materials and serves wall cavities, attics, crawl spaces, foundations, and roof-deck undersides. Process exclusively with IPS A-Side (ISO) and follow approved assembly requirements.

DEFINING EXCELLENCE THROUGH INNOVATION

AGED THERMAL PERFORMANCE

Provides aged R-7.4 per inch below 3.5 inches total thickness and R-7.1 per inch at 3.5 inches or greater, tested under ASTM C518.

DOCUMENTED CLOSED-CELL STRENGTH

Combines more than 95% closed-cell content with 28.8 psi compressive strength and greater than 32 psi tensile strength, supported by ASTM testing.

AIR AND MOISTURE CONTROL

Qualifies as air-impermeable insulation at one inch under ASTM E2178 and records less than 1% water absorption by volume under ASTM D2842.

FLOOD AND FUNGAL RESISTANCE

Identified as FEMA Class 5 flood damage-resistant material, with no fungal growth in ASTM C1338 testing for documented resistance in demanding building environments.

R-7.4 / in.

BELOW 3.5 IN. THICKNESS

R-7.1/in. at 3.5 in. or more · ASTM C518

>95%

CLOSED-CELL CONTENT

ASTM D6226

<1%

WATER ABSORPTION

By volume · ASTM D2842

APPLICATIONS

- Walls & Rim Joists
- Foundations & Crawl Spaces
- Attics & Roof Decks
- Ductwork Insulation

Not for exterior roofing. Cold-storage structures require design by a design professional for that use. Follow the current TDS, application guide, component SDSs, and CCRR-0674 assembly requirements.

Talk with IPS about your project.

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