

ECOMAXCI® FR AIR BARRIER (REPLACES ECOMAXCI®)

INSULATION FOR EXTERIOR WALL USE

PRODUCT DESCRIPTION

Rmax ECOMAXci® FR Air Barrier is an energy-efficient thermal insulation board composed of a closed-cell polyisocyanurate (polyiso) foam core bonded to glass fiber reinforced aluminum facers on both sides. Glass fiber reinforcement on both faces of the board offer enhanced durability, dimensional stability and fire performance. The printed side, exposed to the exterior, has a robust embossed 12mil facer with an aluminum reflective surface and clear coating for limited protection against oxidation ensuring jobsite security and enhanced radiant heat protection.

COMPLIANCES

- ASTM C1289 Type I, Class 1 and 2
- ASHRAE 90.1
- International Energy Conservation Code (IECC)
- International Building Code (IBC) Section 2603, Foam Plastic
- DrJ TER 1212-03
- California Code of Regulations, Title 24 (BHFTI License T1523)
- Tested per NFPA 285 to comply with IBC Section 2603.5.5
- Class A Flame Spread and Smoke Developed Indices per IBC Chapter 8, Interior Finishes
- Approved component for use within the ECOMAXci® Wall Solution
 - Water-Resistive Barrier (WRB) Component per ICC-ES AC71 (ASTM E331, AATCC Test Method 127)
 - Air Barrier System Component ASTM E2357, CAN/ULC-S742 (A1)
- High Velocity Hurricane Zone system, R-Trac (HVHZ)
 - Florida Building Code Approval #FL16406
 - Tested per TAS 201,202 and 203
 - Tested per ASTM E1886 and E1996
 - Minimum thickness is 2.0"
- 1, 2, 3 or 4 hour Fire Rated Assemblies as shown in the UL Fire Resistance Directory

NOTE: For details, requirements and/or limitations, refer to Third-Party Evaluation Reports

APPLICATIONS

Exterior walls (Type I-IV): Masonry, steel stud and FRTW stud

THERMAL PROPERTIES / PRODUCT DATA

"R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

NOMINAL THICKNESS	THERMAL R-VALUE ¹
Inches	°F·ft ² ·hr/Btu
0.75	5.0
1.00	6.5
1.20	7.9
1.25	8.3
1.50	10.0
1.75	11.6
2.00	13.1
2.10	13.9
2.30	15.3
2.50	16.7
2.90	19.6
3.00	20.3
3.50	23.9
3.70	25.3
4.00	27.4
4.50	31.0

¹Thermal values are determined by using ASTM C518 test method at 75°F mean temperature on material conditioned according to PIMA Technical Bulletin No. 101.

TYPICAL PHYSICAL PROPERTIES

Physical properties shown are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances.

PROPERTY	TEST METHOD	RESULTS
Density, Overall, Nominal	ASTM D1622	2.0 pcf
Compressive Strength	ASTM D1621	25 psi
Flexural Strength	ASTM C203	60 psi
Flame Spread, Core ¹	ASTM E84	25 or Less
Smoke Developed, Core ¹	ASTM E84	< 450
Air Permeance	ASTM E2178	< 0.02 L/(s·m ²)
Water Vapor Permeance	ASTM E96	< 0.1 perm
Water Absorption	ASTM C209	< 0.2% Vol.
Dimensional Stability, Length and Width	ASTM D2126	< 1% Linear Change
Mold Resistance	ASTM D3273	10, no defacement
Reflectance Emittance	ASTM E408	0.96 0.04
Service Temperatures		250°F max

¹Flame spread and smoke numbers are shown for comparison purposes only and are not intended to represent the performance of ECOMAXci® FR Air Barrier and related components under actual fire conditions.

ECOMAXci® FR Air Barrier is shipped in bundles that are approximately 48" high and wrapped in plastic for easy handling. Visit www.rmax.com for a complete list of thicknesses and packaging information.

LIMITATIONS

ECOMAXci® FR Air Barrier is not recommended, nor warranted, for use as a commercial roof insulation. Consult Rmax Sales for suitable commercial roof insulation products. ECOMAXci® FR Air Barrier is not a structural panel; stud walls insulated with ECOMAXci® FR Air Barrier must be properly braced for lateral loads according to the requirements of local Building Codes.

WARNING

Polyiso is an organic material which will burn when exposed to an ignition source of sufficient heat and intensity and may contribute to flames spreading.

DO NOT leave ECOMAXci® FR Air Barrier exposed to the interior. Installations utilizing ECOMAXci® FR Air Barrier must be separated from the interior of the building by a thermal barrier such as a minimum of 1/2" gypsum wallboard. Consult your local Building Official for specific governing codes and requirements.

Per the IBC, a WRB is required behind the exterior wall veneer. The code also has provisions regarding vapor retarders, type and location, based on the assembly, climate zone and the amount of continuous insulation. It is up to the design professional to specify an assembly that will perform adequately and meet these requirements.

WARRANTY

See Rmax "Sales Policy" and "Fifteen Year Limited Thermal Warranty" for terms and conditions. Rmax does not assume any responsibility or liability for the performance of any products other than those manufactured by Rmax. **NOTE: Factory packaging should not be relied upon as protection at job sites or other outdoor storage locations. When short-term outdoor storage is necessary, take the following precautions: Store flat above ground on raised pallets, place bundles on finished surfaces, cover with a breathable tarpaulin and secure cover to prevent wind displacement.**



RMAX SALES OFFICES / PLANT

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PRODUCT DATA SHEET
ECOMAXCI® FR AIR BARRIER
Revision.08-07-2023

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BUILDING TRUST

