

RE-COVER BOARD-3

INSULATION FOR RECOVERING EXISTING ROOFS

PRODUCT DESCRIPTION

Rmax Re-Cover Board-3 is an energy efficient thermal insulation board composed of a closed cell polyisocyanurate (polyiso) foam core bonded to facers on both sides. Standard Re-Cover Board-3 (GRF) has glass fiber/organic mat facers, but it is also available as Re-Cover Board-3 (CGF) with inorganic, polymer coated glass fiber mat facers.

COMPLIANCES

- ASTM C1289 Type II, Class 1
- International Building Code (ICC) Chapter 26 Section 2603, Foam Plastic
- ASHRAE 90.1
- Miami-Dade County Product Control Approved
- Florida Product Approval (FL11207)
- RR 25378, City of Los Angeles Research Report
- California Code of Regulations, Title 24 (BHFTI License T1523)
- Re-Cover Board-3 does not have FM approvals nor is it recommended for use in applications where the product is applied directly to steel roof decks. Direct applications require the use of a suitable building code approved thermal barrier. Refer to Rmax's Multi-Max® FA-3 (minimum thickness of 1.5") for applications without a thermal barrier.
- Underwriters Laboratories – UL listed and labeled as shown in UL Certifications Directory:
 - Class A for External Flame – UL Standard 790

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

APPLICATIONS

Built-up roof; modified bitumen; mechanically attached single ply

THERMAL PROPERTIES / PRODUCT DATA

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

NOMINAL THICKNESS	LONG TERM THERMAL RESISTANCE (LTTR) ¹	BUNDLE DATA ² (48" X 96")		TRUCKLOAD DATA (48" X 96")	
		PIECES	SQ. FT.	PIECES	SQ. FT.
1.00	5.7	48	1,536	1,152	36,864
1.10	6.3	43	1,376	1,032	33,024
1.20	6.8	40	1,280	960	30,720
1.25	7.1	38	1,216	912	29,184
1.30	7.4	36	1,152	864	27,648
1.40	8.0	34	1,088	816	26,112

¹LTTR values are determined in accordance with CAN/ULC-S770. LTTR predicts a 15-year, time-weighted average.
²Re-Cover Board-3 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.

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	20 psi ¹
Flame Spread, Core ²	ASTM E84	25 - 60
Smoke Developed, Core ²	ASTM E84	75 - 160
Water Vapor Transmission	ASTM E96	< 1.5 perm
Water Absorption	ASTM C209	< 1% Vol.
Dimensional Stability Length and Width	ASTM D2126	< 2% Linear Change
Service Temperatures		250°F max

¹Also available in Grade 2 or Grade 3 upon request.

²Flame Spread and Smoke Developed Indexes are used to measure and describe the properties of this material in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of this material and other related roofing components under actual fire conditions.

APPLICATION / INSTALLATION

General - Re-Cover Board-3 is applied over an existing roof in order to provide a continuous layer of thermal insulation and a suitable substrate for the application of many different kinds of roofing membranes available in the market today.

Refer to *Rmax Polyiso Roof Insulation Fastening Guide* for details on fastening patterns, thickness requirements and approved washers.

Re-Cover Board-3 must be secured over an existing roof to the deck below with FM listed mechanical screw and plate fasteners of sufficient length to penetrate the existing roof deck for proper pull-out strength. It may be secured to other types of "nailable" decks with suitable mechanical fasteners for that type of "nailable" deck. Re-Cover Board-3 shall be adhered to properly flooded BUR after all ballast is removed. Re-Cover Board-3 may be (as an alternate method of attachment) secured through an old roofing system to a concrete deck with suitable mechanical screw and plate fasteners. For applications utilizing hot bitumens, the asphalt should be applied at its recommended equiviscous temperature (EVT) plus or minus 25°F. Adhesives shall be used in strict accordance with recommended installation procedures as supplied by the manufacturer.

NOTE: Panel size shall be limited to 4' x 4' when hot bitumens are used. No more insulation shall be laid than can be covered with the completed membrane system by the end of the work for the day. Refer to PIMA Technical Bulletin 109 for storage and handling recommendations.

Rmax strongly recommends that the decision to use or not use a vapor retarder in any insulated roofing assembly be guided by the recommendations of the National Roofing Contractors Association (NRCA) in the latest edition of the "NRCA Roofing and Waterproofing Manual".

Designers and installers are referred to Rmax publication "General Notes for Use of Rmax Roofing Insulations in Low Slope Applications", for specifics regarding construction applications utilizing Rmax roof insulation products.

RE-COVER ROOFING NOTES:

When recovering an old roofing system, Rmax insulation may be used where the existing roof system, including the deck below, is still sound and firmly attached.

- Rmax recommends that when the existing roof system is not torn off, the existing roof system and deck should be thoroughly investigated for water intrusion and deterioration. Wet or deteriorated areas require complete removal of the affected area and repairs made to restore the roofing system to a level surface to begin the new work.
- The deck and structure must be investigated by competent engineers to determine if the new imposed loads of the recover roofing system may be added without jeopardizing the structural integrity of the building.
- Insulated roofing systems must drain properly. Ponded water will cause premature deterioration of installed roofing components. Consideration must be given by the roofing designer for improvements in roof drainage systems, such as additional roof drains or the addition of tapered insulation, if ponded water is observed on the existing roofing system.
- When two or more roofing systems are present over the roof structure, Rmax strongly recommends that the roofing system be torn off and not "recovered". NOTE: Three or more roof membranes on a roof structure may violate local building codes.

INSTALLATION REQUIREMENTS:

- Rmax recommends that gravel or slag ballast of an existing built-up membrane be scraped off to produce a smooth surface. Loose ballast may be vacuumed up and the remaining ballast and uneven spots leveled with a flood coat of asphalt. All surfaces must be swept clear of dust, dirt and debris. Application of Re-Cover Board-3 on loose or protruding gravel will crush the insulation and damage the facers. This damage may cause the insulation to become dimensionally unstable and lose R-value.
- Gravel or slag ballast that will be left in place on the roof in a recover roofing application must be covered with a minimum 1/2" thick wood fiberboard prior to application of the Rmax insulation and new membrane system.
- Rmax recommends that the membrane supplier be consulted for treatment of existing single-ply membranes which are to be left in place when recovering with a new roof system.
- Install only DRY insulation and related roofing system components. Install only as much insulation as will be covered by the completed roofing membrane by the end of the work day.
- Lay insulation panels in rows and stagger the end joints in parallel courses. Lightly butt each panel to the adjacent panel. DO NOT force insulation panels into place.

LIMITATIONS

Re-Cover Board-3 is not recommended nor warranted for use in inverted or protected roofing membrane systems (IRMA).

Re-Cover Board-3 is not a structural panel.

Re-Cover Board-3 is not recommended for use directly on steel roof decks.

WARNING

DO NOT leave Re-Cover Board-3 exposed. Polyiso foam is an organic material which will burn when exposed to an ignition source of sufficient heat and intensity and may contribute to flames spreading.

WARRANTY

See Rmax "Sales Policy" for warranty conditions. Rmax does not assume any responsibility or liability for the performance of any products other than those manufactured by Rmax.

NOTE: All Rmax products must be tarped, placed on skids and kept dry before and throughout construction. Requests for Certification Letters and/or special warranty considerations must be submitted to Rmax Sales prior to delivery of the products.



RMAX SALES OFFICES / PLANT

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PRODUCT DATA SHEET
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BUILDING TRUST

