

LEXBOARD 90

12.5 mm (1/2") COVER BOARD

DESCRIPTION & USE

LEXCOR LEXBOARD 90 is a high-density cover board, composed of a closed-cell polyisocyanurate foam core integrally bonded to inorganic coated glass facers on both sides. LEXBOARD 90 is suitable for use as a protective layer for the primary insulation or a separation board in recover applications. It can be used in new and reroofing applications; more so, in mechanically fastened and fully adhered single ply roofing systems, as well as self-adhered "peel & stick" roofing systems.

FEATURES & BENEFITS

High-Density - Strong and rigid roof protection.

Dimensionally Stable - Increased membrane performance.

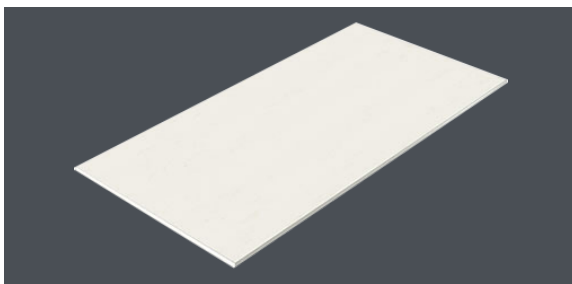
Light Weight - Easy to handle.

High Strength Glass Facers - Superior membrane bond with adhered systems and highly resistant to mold growth.

TECHNICAL DATA

LEXBOARD 90 meets or exceeds the following physical properties.

Typical Physical Properties and Characteristics		
Property	Test Method	ASTM C1289 or CAN/ULC S704 (Minimum Requirements)
Nominal Thickness:	-	12.5 mm (0.5")
Thermal Resistance:	ASTM C518	RSI = 0.44 (R-VALUE = 2.5)
Water Vapour Transmission:	ASTM E96	< 1.5 perm < 85.8 ng/Pa·s·m ²
Water Absorption:	ASTM C209 ASTM C1763 ASTM D2842	< 4.0% < 4.0% < 3.5%
Compressive Strength:	ASTM D1621	90 ¹
Dimensional Stability:	ASTM D2126	0.5%
Tensile Strength:	ASTM D1623	95 kPa (<2000 psf)
Smoke Development:	ASTM E84/UL723	< 75 ²
Flame Spread:	ASTM E84/UL723	< 450 ²
Service Temperature:	-	-73°C to 121°C (-100°F to 250°F)



¹ 551 kPa (80 psi) minimum, up to 758 kPa (110 psi)

² Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of ≤75 and smoke development ≤450 meet code requirements for foam plastic roof insulation. Physical properties listed above are presented as typical average values as determined by referenced ASTM test methods and are subject to normal manufacturing variation.

APPROVALS & COMPLIANCES

Compliant with the following standards:

- ASTM C 1289, Type II, Class 4, Grade 1
- CAN/ULC-S704, Type 4, Class 3
- UL Certified for Canada - Insulated Roof Deck Assemblies Construction No. C38 and 52. Meet CAN/ULC-S126, CAN/ULC-S101 and CAN/ULC-S107
- UL 1256 Classification Construction No. 120, 123 & 292
- UL 790 (ASTM E108) Roofing Systems Classification
- UL 263 (ASTM E119) Fire Resistance Classification
- FM 4450/4470 Refer to FM Approvals® RoofNav for Specific System Details
- FM 4473 rated SH-1 for Severe Hail
- UL Class B Over Combustible Decks with UL Classified Membranes
- IBC Chapter 26 & NBC Sections on Foam Insulation
- UL 2824 Resistant to Mold Growth as Validated by UL Environment



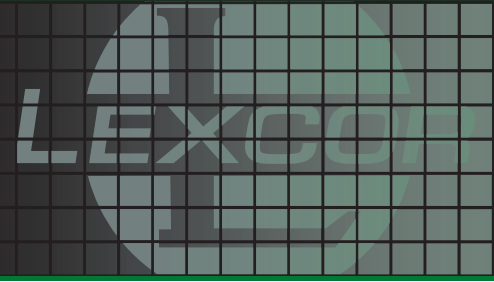
COMMERCIAL BUILDING PRODUCTS

Ontario & Western Canada 1.800.268.2889 / Quebec & Atlantic Canada 1.800.363.2307

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PACKAGING & COVERAGE

Sizes	Coverage per Panel	Panels per Bundle	Coverage per Bundle	Board Weight	Bundle Weight
1219 mm x 1219 mm (48' x 48')	1.49 m ² (16 ft ²)	42	62.4 m ² (672 ft ²)	3.72 kg (8.21 lbs)	156.24 kg (344.82 lbs)
1220 mm x 2440 mm (48" x 96")	2.97 m ² (32 ft ²)	42	115.6 m ² (1344 ft ²)	7.44 kg (16.41 lbs)	312.48 kg (689.22 lbs)

INSTALLATION

LEXBOARD 90 must be kept dry before, during and after installation. May be mechanically fastened in accordance with system requirements with approved fasteners and plates, or adhered in place with an approved adhesive. When adhered, 1210 mm x 1210 mm (4' x 4') boards are recommended. Consult with your LEXCOR representative for a list of approved adhesives.

Prior to installation, LEXCOR recommends you refer to your local building codes, contract documents and membrane manufacturer for additional installation guidelines.

CAUTIONS & LIMITATIONS

- This product will burn if exposed to an ignition source of sufficient heat and intensity.
- Do not apply flame directly to LEXBOARD 90.
- To minimize the effects of thermal bridging, and the impact of moisture/airflow into the roof system, LEXCOR recommends the insulation assembly be installed in staggered multiple layers.



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