

TECHNICAL DATA SHEET

5 September 2025, Issue 3



LAMBDA GUARD HD



LAMBDA GUARD is a high density closed-cell thermosetting polyisocyanurate (Polyiso) foam core integrally bonded to mineral coated facings on both sides. Zero Ozone Depletion Potential (ODP) and <1 Global Warming Potential (GWP). **LAMBDA GUARD HD** delivers an R-value of 0.45 on a 12.5mm thick board and an R-value of 0.66 on an 18.5mm thick board.

APPLICATION

A lightweight composite alternative for protective layers/substrate in the building envelope. Typical applications include inverted roof and hot deck installations. Compatible with liquid waterproofing or bitumen/EPDM systems. Can be used as a core in high strength composite panels.

PHYSICAL PROPERTIES

THERMAL PROPERTIES	λ Lambda value 0.028 W/m.K @ 22° C mean, aged-tested in accordance with ASTM C518
DENSITY	Minimum of 70 Kg/m ³ foam core
COMPRESSIVE STRENGTH	650 KPA
WEIGHT	18.5 mm = 2.2kg/m ² 12.5 mm = 1.51kg/m ²
WATER ABSORPTION	Zero (closed-cell)
TEMPERATURE RANGE	-60° C to 120° C with no physical property degradation
WIDTH	1 220 mm
LENGTHS	2600 mm standard length. Various lengths available on request.
THICKNESS TOLERANCE	± 2 mm
COMMON BUILDING CHEMICAL RESISTANCE	Alkaline, Solvents, Paints, resistant to VOC's

HANDLING AND STORAGE

LAMBDA GUARD HD insulation boards are wrapped in branded plastic packaging for delivery to site. Keep away from direct sun light. Boards must be stored on a flat surface, under cover and away from the elements.

Learn more at: www.lambdaboard.co.za

PROUD MEMBERS OF:



DISAVOWAL: The information set forth herein is furnished free of charge and is based on technical data that RIGIFOAM believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since some conditions of use are outside our control, we make no warranties, express or implied, and assume no liabilities in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patent.