

TECHNICAL DATA SHEET

14 April 2025, Issue 2



LAMBDABOARD®



LAMBDABOARD® is a closed-cell thermosetting polyisocyanurate (Polyiso/PIR) foam core, integrally bonded to inorganic facers on both sides. Blowing agent has Zero Ozone Depletion Potential (ODP) and <1 Global Warming Potential (GWP).

APPLICATION

Built environment

PHYSICAL PROPERTIES

CATEGORY	PHYSICAL PROPERTIES	TEST METHOD
THERMAL CONDUCTIVITY	λ Lambda value 0.024 (W/m.K) @ 22°C mean temperature, aged	ASTM C518
DENSITY	Overall density 40 kg/m ³	ASTM D1622
FIRE CLASSIFICATION RESULTS	Rating D s3 d0 (Accredited Lab results)	SANS 53501-1 SANS 53823
	Class A (External fire exposure)	ASTM E108
TOXICITY	Approved for usage in confined spaces	NES 713
WATER ABSORPTION	< 1% water absorption by mass	SANS 1381-1 2007 ASTM C1763
DIMENSIONAL STABILITY	< 1%	ASTM 2126

DIMENSIONS AND ATTRIBUTES:

THICKNESS	25mm to 100mm
WIDTH	1220mm
THICKNESS TOLERANCE	+/-2mm
COMMON BUILDING CHEMICAL RESISTANCE	Alkaline, Solvents, Paints, Adhesives
OPERATING TEMPERATURE RANGE	-60°C to 120°C (maintains physical integrity and performance)

FACINGS

Facer materials serve a variety of functions in the production and use of polyiso insulation. During the manufacture of polyiso boards, inorganic facers are used to contain the foam core during the continuous production process. After manufacture, facers add strength and aesthetics to the finished insulation board.

DISAVOWAL: The customer acknowledges and understands that after delivery, the goods will have left the control of RigiFoam (Pty) Ltd, and that the customer will be responsible for the unpacking of and connection/installation of the goods. The customer acknowledges that it is his/her further responsibility to ensure that a fully qualified and competent person is used to install the goods to ensure their effective operation. Failure by the customer to ensure the installation of the goods, according to the written instructions of the manufacturer and/or supplier, by a fully qualified and competent person, may result in the failure of the goods, injury, loss or damages to the customer. Accordingly, and in this event, RigiFoam (Pty) Ltd accepts no responsibility for any loss or damages that might arise by reason of death or personal injury to any person engaged in the installation or use of the goods thereafter, subject to the provisions of the Consumer Protection Act 68 of 2008.

TECHNICAL DATA SHEET

14 April 2025, Issue 2



LAMBDABOARD®



FACING PROPERTIES

FACING DESCRIPTION	APPLICATION
ECOLAM Foil Aluminium Foil Facer (AFF) both sides	Cavity walls, under roof covering
Coated Glass Facer (CGF) Mineral White to exposed side and Mineral Natural to the concealed side	Below roof covering, inverted roof, vertical cladding, below-grade, hot deck, cold deck, below waterproofing and ceiling applications
Pigmented Black Coated Glass Facer (CGF) to exposed side and Mineral Natural to the concealed side	Below roof covering, vertical cladding
Pigmented Grey Coated Glass Facer (CGF) to exposed side and Mineral Natural to the concealed side	Below roof covering, vertical cladding
ECOLAM 5C White Polyethylene foil kraft composite laminate double sided	Below roof covering, vertical cladding, Agricultural applications, washable
Kraft Paper double sided	Under slab, concealed applications, under screed
Bitumen Kraft double sided	Hot deck and inverted roof

R-VALUE RABLE

LAMBDABOARD R-VALUE M² K/W			
Thickness (mm)	R-value	Thickness (mm)	R-value
25 mm	1.04	65 mm	2.71
30 mm	1.25	70 mm	2.92
35 mm	1.45	75 mm	3.13
40 mm	1.67	80 mm	3.33
45 mm	1.88	85 mm	3.54
50 mm	2.08	90 mm	3.75
55 mm	2.29	95 mm	3.96
60 mm	2.5	100 mm	4.17

R-VALUE RABLE

LAMBDABOARD® insulation boards are wrapped in branded plastic packaging for delivery to site. Keep away from direct sunlight and moisture. 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 customer acknowledges and understands that after delivery, the goods will have left the control of RigiFoam (Pty) Ltd, and that the customer will be responsible for the unpacking of and connection/installation of the goods. The customer acknowledges that it is his/her further responsibility to ensure that a fully qualified and competent person is used to install the goods to ensure their effective operation. Failure by the customer to ensure the installation of the goods, according to the written instructions of the manufacturer and/or supplier, by a fully qualified and competent person, may result in the failure of the goods, injury, loss or damages to the customer. Accordingly, and in this event, RigiFoam (Pty) Ltd accepts no responsibility for any loss or damages that might arise by reason of death or personal injury to any person engaged in the installation or use of the goods thereafter, subject to the provisions of the Consumer Protection Act 68 of 2008.