



# POLARBOARD™

## ABOUT POLARBOARD

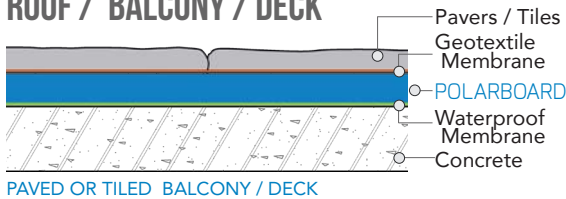
Australian made POLARBOARD is a high performance, rigid thermal insulation with increased compressive and load bearing strength (up to 300kPa). POLARBOARD is available in sheets or block form and is designed to perform in all Climate Zones throughout Australia.

POLARBOARD provides stable and long term thermal performance and will not deteriorate in structural integrity or physical properties over its lifetime. POLARBOARD adds minimal load to a building structure, making it ideal for rooftops, balconies, decks and commercial void fill applications.

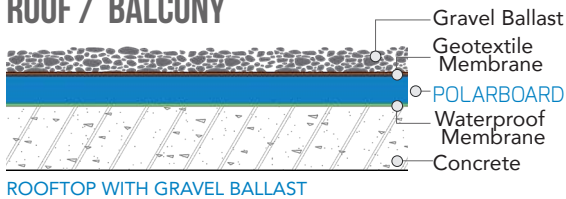
## UP TO 300 KPA SUPER STRONG POLARBOARD INSULATION UNDER SLAB, COMMERCIAL VOID FILL, ROOFTOP, COOL ROOM, WALLS

POLARBOARD Insulation is designed for outdoor applications on commercial and residential projects including walls, rooftops, balconies, decks and under slab applications where a high performance, thermal insulation solution is required. POLARBOARD is specified for commercial void fill applications including roadworks, landscaping and planter box fill.

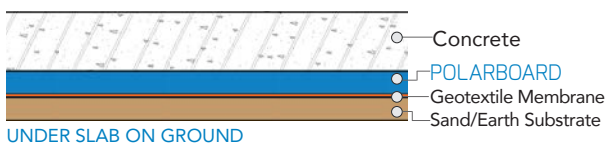
### ROOF / BALCONY / DECK



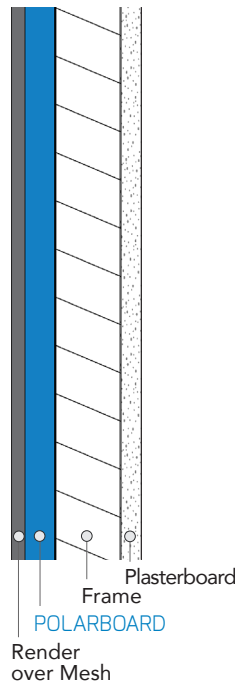
### ROOF / BALCONY



### UNDER SLAB ON GROUND / SLAB EDGE



### RENDERED WALL



**QUICK & EASY TO INSTALL**  
**LIGHTWEIGHT & DURABLE**

**NON-TOXIC & FIBRE-FREE** | **RECYCLABLE & GREEN**

**MADE IN AUSTRALIA** | **THERMALLY EFFICIENT**



[WWW.POLARBOARD.COM.AU](http://WWW.POLARBOARD.COM.AU)  
**1300 246 476** [INFO@POLARBOARD.COM.AU](mailto:INFO@POLARBOARD.COM.AU)



# POLARBOARD™

**TECHNICAL  
BUILDING DESIGN  
SPECIFICATIONS**  
1300 246 476

**POLARBOARD 70** Thermal insulation for ceilings, walls and floors. Geof foam blocks for commercial void fill and landscaping applications including planter box fill.

**POLARBOARD 105** Thermal insulation for underslab, underfloor, roof, balcony and decks. Render substrate and thermal insulation for external walls. Commercial void fill.

**POLARBOARD 165** Thermal insulation for underslab, maintenance areas. Render substrate and thermal insulation for external walls. Balcony and roof top applications.

**POLARBOARD 300** Thermal insulation for maintenance and foot traffic areas including roofs, decks and balconies. Cold storage and cool rooms. Commercial applications.



## ▶ NEED A DIFFERENT R-VALUE OR THICKNESS? OTHER SIZES AVAILABLE SHEETS OR BLOCKS

R-VALUES	20 mm	30 mm	35 mm	40 mm	50 mm	60 mm	70 mm	80 mm	90 mm	100 mm	110 mm	120 mm
POLARBOARD 70	R0.5	R0.7	R0.9	R1.0	R1.2	R1.5	R1.7	R2.0	R2.2	R2.5	R2.7	R2.9
POLARBOARD 105	R0.5	R0.8	R0.9	R1.1	R1.3	R1.6	R1.8	R2.1	R2.4	R2.6	R2.9	R3.2
POLARBOARD 165	R0.6	R0.9	R1.0	R1.1	R1.4	R1.7	R2.0	R2.3	R2.6	R2.9	R3.1	R3.4
POLARBOARD 300	R0.6	R0.9	R1.1	R1.3	R1.6	R1.9	R2.2	R2.5	R2.8	R3.1	R3.4	R3.8

TECHNICAL DATA	UNIT	POLARBOARD				TEST METHOD
		70	105	165	300	
Dimensions	Sheets	1200 x 2400mm. Other sheet sizes available.				
	Blocks	2400 x 1200 x 600mm. Other block sizes available.				
Compressive stress (@ 10% deformation, min)	kPa	70	105	165	300	AS 2498.3
Cross-breaking strength; min	kPa	135	200	320	380	AS 2498.4
Rate of water vapour transmission (Maximum, measured parallel to rise @23°C)	mg/m²s	<630	<520	<400	<400	AS 2498.5
Dimensional stability of length, width, thickness (max@70°C over 7days)	%	1.0	1.0	1.0	1.0	AS 2498.6
Thermal conductivity (Max. @ mean temperature of 23°C)	W/mk	0.0407	0.038	0.035	0.032	AS 2464.5 or AS 2464.6
Flame propagation characteristics:						AS 2122.1
- median flame duration; max	s	2	2	2	2	
- eight value; max	s	3	3	3	3	
- median volume retained;	%	>18	>30	>50	>50	
- eight value; min	%	>15	>27	>47	>47	

Always obtain independent professional engineering advice for load bearing and structural applications.



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Product specifications are subject to change without notice. The information and technical details included herein are given in good faith and apply to the uses described. Recommendations for use should be independently verified for compliance with actual requirements, project specifications, laws and regulations. Please contact us to obtain up to date information pertaining to acceptable uses for Polarboard based on applicable Building Code criteria and actual project requirements, including building construction type and intended application.