



Performance insulation for a greener world

Design and build to suit your climate zone.

A Design Guide for the easy selection of roof sarking, wall wraps and vapour permeable membranes for modern Australian Buildings, NCC 2022 - ABCB Climate Zones 1 - 8.

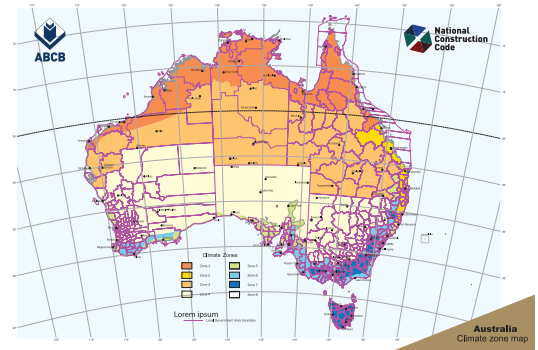


Building systems for thermal comfort, moisture management and energy efficiency.

## Design and build to suit your climate zone.

Australia has a varied climate, leading to different locations around the country having different heating and cooling requirements. To account for these differences, the energy efficiency DTS Provisions varies from location to location, for simplicity, locations with approximately similar climates have been combined into eight climate zones.

The **ABCB interactive map** allows you to search for the climate zone your building is located in; visit <https://www.abcb.gov.au/resources/climate-zone-map>



The following product matrix is a hierarchal guide for selecting products for residential and commercial building applications for the relevant ABCB climate zones.

### NCC 2022 - Volume 1 and Volume 2 / Housing Provisions.

#### ABCB Climate Zones

1	2	3	4	5	6	7	8
Wet Tropics	Sub-tropical		Temperate		Cool / Alpine		
ROOFS	ROOFS		ROOFS		ROOFS		
<b>For optimal performance, roof membranes should be sealed to the wall membrane.</b>	<b>For optimal performance, roof designs should include a minimum 20 mm ventilation path.</b>		<b>For optimal performance, roof designs should include a minimum 20 mm ventilation path.</b>		<b>NCC 2022 DtS requirement, all roofs must include a minimum 20 mm ventilation path.</b>		
Sarking HVB	CeaseFire®		CeaseFire®		<b>Typical Cathedral / Raked Ceiling* :</b>		
Sarking xR	Sarking, Sarking xR		VapourTech® RWC		CeaseFire®		
Sarking	VapourTech® RWC		Sarking, Sarking xR		VapourTech® RWC		
FireSark®	<b>+ ThermalCav™ Drainage Batten</b>		<b>+ ThermalCav™ Drainage Batten</b>		<b>+ ThermalCav™ Drainage Batten</b>		
ThermalBreak®	<b>+ Cavity™ Drainage Batten</b>		<b>+ Cavity™ Drainage Batten</b>		<b>Typical Pitched Roof with Attic Space:</b>		
ThermalLiner™	ThermalBreak®		ThermalBreak®		Vapour Permeable: as above		
	ThermalLiner™		ThermalLiner™		Vapour Barriers:		
	FireSark®		FireSark®		ThermalBreak®, ThermalLiner™, Sarking		
L.C. WALLS	L.C. WALLS		L.C. WALLS		L.C. WALLS		
<b>Water Barrier Class 1 or Class 2 Vapour Barrier</b>	<b>Water Barrier Class 2 Vapour Barrier or Class 3 or 4 Vapour Permeable</b>		<b>Water Barrier Minimum of Class 3, and Class 4 Vapour Permeable</b>		<b>Water Barrier Minimum of Class 4 Vapour Permeable</b>		
Sarking HVB	CeaseFire®		CeaseFire®		CeaseFire®		
Sarking xR	VapourTech® RWC		VapourTech® RWC		VapourTech® RWC		
Wall Wrap	VapourTech® Wall		VapourTech® Wall		VapourTech® Wall		
Sarking	VapourTech® Brane® VHP		VapourTech® Brane® VHP		VapourTech® Brane® VHP		
FireSark®	Wall Wrap® #		<b>+ ThermalCav™ Drainage Battens</b>		<b>+ ThermalCav™ Drainage Battens</b>		
ThermalBreak®	Wall Wrap xR # Wall Wrap xRS #						
ThermalLiner™	ThermalBreak® # ThermalLiner™ #						
<b># Lightweight Clad Walls:</b> Please check cladding manufacturer's requirements and warranty before installation under cladding.							
BRICK VENEER & DRAINED CAVITY WALLS	BRICK VENEER & DRAINED CAVITY WALLS		BRICK VENEER & DRAINED CAVITY WALLS		BRICK VENEER & DRAINED CAVITY WALLS		
<b>Class 1 or Class 2 Vapour Barrier</b>	<b>Class 2 Vapour Barrier or Class 3 or 4 Vapour Permeable</b>		<b>Minimum of Class 3, and Class 4 Vapour Permeable</b>		<b>Minimum of Class 4 Vapour Permeable</b>		
Sarking HVB	Wall Wrap xRS		CeaseFire®		CeaseFire®		
Wall Wrap xRS	Wall Wrap xRS Micro-perforated		VapourTech® Wall		VapourTech® RWC		
Sarking xR	SilverSark® xR		VapourTech® RWC		VapourTech® Wall		
Wall Wrap	Wall Wrap xR Micro-perforated		Wall Wrap xRS Micro-perforated		VapourTech® Brane® VHP		
Sarking	Wall Wrap		Wall Wrap xR Micro-perforated		Wall Wrap MD Micro-perforated		
FireSark®	Wall Wrap Micro-perforated		Wall Wrap MD Micro-perforated		Wall Wrap LD Micro-perforated		
ThermalBreak®	VapourTech® Wall		Wall Wrap LD Micro-perforated		Wall Wrap xR Micro-perforated		
ThermalLiner™	VapourTech® Brane® VHP		FireSark® Micro-perforated				
	FireSark® Micro-perforated		VapourTech® Brane® VHP				

\*When combined with a 20 mm adjacent air space. © Copyright Ametalin 2022 All Rights Reserved. Ametalin is a division of Amalgamated Metal Industries Pty. Ltd.

**Condensation Management:** Ensure in ABCB climate zones 3 and 4, that an appropriate Class 3 or Class 4 Vapour Permeable membrane is used. Ensure that in ABCB climate zones 6, 7 and 8 that an appropriate Class 4 Vapour Permeable membrane is used. Individual constructions benefit from a hygrothermal analysis by a suitably qualified engineer to ensure the greatest protection from condensation risk and moisture-related damage. The purchaser should independently determine the suitability of the product for the intended purpose.

**Steel-frame construction:** Ensure provisions are made for thermal break and thermal bridging mitigation where required by the NCC2022. ThermalCav™ Drainage Battens provide a 20 mm air space and achieve R0.26 thermal break, to meet & exceed NCC2022 R0.2 thermal break requirements. Also available: R0.25 ThermalBreak® Strips and ThermalBreak®.



Architects and Specifiers | CPD  
Design and specify to suit your ABCB Climate Zone.



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