Ametalin

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.

Sarking Insulation Selector

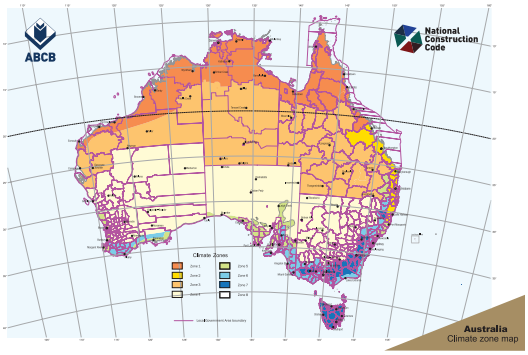
NCC 2022, ABCB CLIMATE ZONES 1 – 8

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**		
For optimal performance, roof membranes should be sealed to the wall membrane.	**For optimal performance, roof designs should include a minimum 20 mm ventilation path.**		**For optimal performance, roof designs should include a minimum 20 mm ventilation path.**		**NCC 2022 DtS requirement, all roofs must include a minimum 20 mm ventilation path.**		
SilverSark® HVB	CeaseFire®		CeaseFire®		**Typical Cathedral / Raked Ceiling* :**		
SilverSark® xR	SilverSark® SilverSark® xR		VapourTech® RWC		CeaseFire®		
SilverSark®	VapourTech® RWC		SilverSark® SilverSark® xR		VapourTech® RWC		
FireSark®	**+ ThermalCav™ Drainage Batten**		**+ ThermalCav™ Drainage Batten**		**+ ThermalCav™ Drainage Batten**		
ThermalBreak®	**+ Cavity™ Drainage Batten**		**+ Cavity™ Drainage Batten**		**Typical Pitched Roof with Attic Space:**		
ThermalLiner™	ThermalBreak®		ThermalBreak®		**Vapour Permeable:** as above		
	ThermalLiner™		ThermalLiner™		**Vapour Barriers:**		
	FireSark®		FireSark®		ThermalBreak®, ThermalLiner™ SilverSark®		
L.C. WALLS	**L.C. WALLS**		**L.C. WALLS**		**L.C. WALLS**		
Water Barrier Class 1 or Class 2 Vapour Barrier	**Water Barrier Class 2 Vapour Barrier or Class 3 or 4 Vapour Permeable**		**Water Barrier Minimum of Class 3, and Class 4 Vapour Permeable**		**Water Barrier Minimum of Class 4 Vapour Permeable**		
SilverSark® HVB	CeaseFire®		CeaseFire®		CeaseFire®		
SilverSark® xR	VapourTech® RWC		VapourTech® RWC		VapourTech® RWC		
SilverWrap®	VapourTech® Wall		VapourTech® Wall		VapourTech® Wall		
SilverSark®	VapourTech® Brane® VHP		VapourTech® Brane® VHP		VapourTech® Brane® VHP		
FireSark®	SilverWrap® #		**+ ThermalCav™ Drainage Battens**		**+ ThermalCav™ Drainage Battens**		
ThermalBreak®	SilverWrap® xR # SilverWrap xRS #						
ThermalLiner™	ThermalBreak® # ThermalLiner™ #						
# **Lightweight Clad Walls:** 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**		
Class 1 or Class 2 Vapour Barrier	**Class 2 Vapour Barrier or Class 3 or 4 Vapour Permeable**		**Minimum of Class 3, and Class 4 Vapour Permeable**		**Minimum of Class 4 Vapour Permeable**		
SilverSark® HVB	SilverWrap® xRS		CeaseFire®		CeaseFire®		
SilverWrap® xRS	SilverWrap® xRS Micro-perforated		VapourTech® Wall		VapourTech® RWC		
SilverSark® xR	SilverSark® xR		VapourTech® RWC		VapourTech® Wall		
SilverWrap®	SilverWrap® xR Micro-perforated		SilverWrap® xRS Micro-perforated		VapourTech® Brane® VHP		
SilverSark®	SilverWrap®		SilverWrap® xR Micro-perforated		SilverWrap® MD Micro-perforated		
FireSark®	SilverWrap® Micro-perforated		SilverWrap® MD Micro-perforated		SilverWrap® LD Micro-perforated		
ThermalBreak®	VapourTech® Wall		SilverWrap® LD Micro-perforated		SilverWrap® 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.

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 themal 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

Design and specify to suit your climate zone.

NATSPEC Specification Worksection available to download

0471p AMETALIN in thermal insulation and pliable membranes

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