



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.

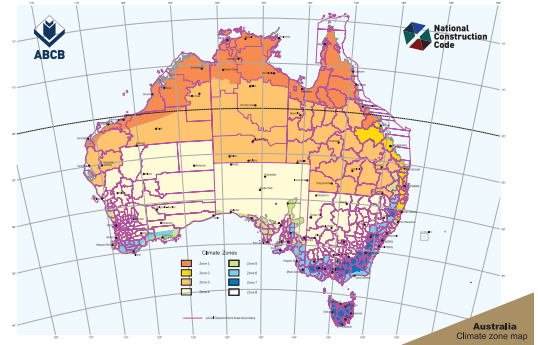


Building systems for thermal comfort, moisture management and energy efficiency.

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 :0206104	CeaseFire® :0204882	CeaseFire® :0204882	CeaseFire® :0204882	CeaseFire® :0204882	Typical Cathedral / Raked Ceiling* :		
SilverSark® xR :0182013	SilverSark® :0182007 :0182010	VapourTech® RWC :0441508	VapourTech® RWC :0441508	CeaseFire® :0204882	CeaseFire® :0204882		
SilverSark® :0182007	SilverSark® xR :0182013 :0182014	SilverSark® :0182007 :0182010	SilverSark® :0182007 :0182010	VapourTech® RWC :0441508	VapourTech® RWC :0441508		
FireSark® :0106451	VapourTech® RWC :0441508	SilverSark® xR :0182013 :0182014	SilverSark® xR :0182013 :0182014	+ ThermalCav™ Drainage Battens :0501110	+ ThermalCav™ Drainage Battens :0501110		
ThermalBreak® :0811234	+ ThermalCav™ Drainage Battens :0501110	+ ThermalCav™ Drainage Battens :0501110	+ ThermalCav™ Drainage Battens :0501110	Typical Pitched Roof with Attic Space:			
ThermalLiner™ :0811014	+ Cavity Drainage Battens :0441505	+ Cavity Drainage Battens :0441505	+ Cavity Drainage Battens :0441505	Vapour Permeable: as above			
	ThermalBreak® :0811234	ThermalBreak® :0811234	ThermalBreak® :0811234	Vapour Barriers:			
	ThermalLiner™ :0811014	ThermalLiner™ :0811014	ThermalLiner™ :0811014	ThermalBreak® :0811234	ThermalBreak® :0811234		
	FireSark® :0106451	FireSark® :0106451	FireSark® :0106451	ThermalLiner™ :0811014	ThermalLiner™ :0811014		
				SilverSark® :0182007	SilverSark® :0182007		
L.C. WALLS	L.C. WALLS	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 3, and Class 4 Vapour Permeable	Water Barrier Minimum of Class 4 Vapour Permeable			
SilverSark® HVB :0206104	CeaseFire® :0204882	CeaseFire® :0204882	CeaseFire® :0204882	CeaseFire® :0204882	CeaseFire® :0204882		
SilverSark® xR :0182013	VapourTech® RWC :0441508	VapourTech® RWC :0441508	VapourTech® RWC :0441508	VapourTech® RWC :0441508	VapourTech® RWC :0441508		
SilverWrap® :0810104	VapourTech® Wall :0441507	VapourTech® Wall :0441507	VapourTech® Wall :0441507	VapourTech® Wall :0441507	VapourTech® Wall :0441507		
SilverSark® :0182007	VapourTech® Brane® VHP :0038672 :0811065	VapourTech® Brane® VHP :0038672 :0811065	VapourTech® Brane® VHP :0038672 :0811065	VapourTech® Brane® VHP :0038672 :0811065	VapourTech® Brane® VHP :0038672 :0811065		
FireSark® :0106451	SilverWrap® # :0810104 :0810479	+ ThermalCav™ Drainage Battens :0501110	+ ThermalCav™ Drainage Battens :0501110	+ ThermalCav™ Drainage Battens :0501110			
ThermalBreak® :0811234	SilverWrap® xR # :0182013 :0182014						
ThermalLiner™ :0811014	SilverWrap xRS #						
	ThermalBreak® # :0811234						
	ThermalLiner™ # :0811014						
# 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	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 3, and Class 4 Vapour Permeable	Minimum of Class 4 Vapour Permeable			
SilverSark® HVB :0206104	SilverWrap® xRS	CeaseFire® :0204882	CeaseFire® :0204882	CeaseFire® :0204882	CeaseFire® :0204882		
SilverWrap® xRS	SilverWrap® xRS Micro-perforated	VapourTech® Wall :0441507	VapourTech® Wall :0441507	VapourTech® RWC :0441508	VapourTech® RWC :0441508		
SilverSark® xR :0182013	SilverSark® xR :0182013	VapourTech® RWC :0441508	VapourTech® RWC :0441508	VapourTech® Wall :0441507	VapourTech® Wall :0441507		
SilverWrap® :0810104	SilverWrap® xR Micro-perforated	SilverWrap® xRS Micro-perforated	SilverWrap® xRS Micro-perforated	VapourTech® Brane® VHP :0038672 :0811065	VapourTech® Brane® VHP :0038672 :0811065		
SilverSark® :0182007	SilverWrap® :0810104	SilverWrap® xR Micro-perforated :0811319	SilverWrap® xR Micro-perforated :0811319	SilverWrap® MD Micro-perforated :0810105	SilverWrap® MD Micro-perforated :0810105		
FireSark® :0106451	SilverWrap® Micro-perforated :0812008	SilverWrap® HD Micro-perforated :0182008	SilverWrap® HD Micro-perforated :0182008	SilverWrap® LD Micro-perforated :0038676	SilverWrap® LD Micro-perforated :0038676		
ThermalBreak® :0811234	VapourTech® Wall :0441507	SilverWrap® MD Micro-perforated :0810480	SilverWrap® MD Micro-perforated :0810480	SilverWrap® xR HD Micro-perforated :0812013	SilverWrap® xR HD Micro-perforated :0812013		
ThermalLiner™ :0811014	VapourTech® Brane® VHP :0038672	SilverWrap® LD Micro-perforated :0038678	SilverWrap® LD Micro-perforated :0038678				
	FireSark® Micro-perforated :0106452	FireSark® Micro-perforated :0106452	FireSark® Micro-perforated :0106452				
		VapourTech® Brane® VHP :0038672 :0811065	VapourTech® Brane® VHP :0038672 :0811065				

*When combined with a 20 mm adjacent air space. © Copyright Ametalin 2024 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®.