

Solar Absorptance

A roof with a lower solar absorptance will reflect more heat than a roof with a higher solar absorptance, and will keep the roof space and dwelling cooler on a hot day.

NCC Classification

NCC categories on the basis of their solar absorptance:

Light (L < 0.40), Medium (M < 0.60), Dark (D > 0.60).

Changes to NCC 2019 Section J :

1. All climate zones, except 8, to have a maximum roof solar absorptance of 0.45.
2. All medium and dark colour roofs will require a performance-based solution (JV3) to demonstrate compliance.

NextSTAR™ Australis Series provides the largest range of light colours in Australia.

Note: Solar absorptance can impact on a building's star rating. If you have a target rate in mind, recommending a colour with a solar absorptance value appropriate to the building's location and construction system may provide the improvement in the thermal performance of the building to reach the target rating.

COLOUR	BCA Class	Solar Absorptance
Freycinet™	L	0.23
Hotham™	L	0.24
Coorong™	L	0.24
Hellfire™	L	0.26
Vivonne™	L	0.29
Cocky Moleskins™	L	0.31
Exmouth™	M	0.42
Gairdner™	M	0.46
Jenolan™	M	0.48
Windjana™	M	0.53
Kooljaman™	M	0.55
Cable Grey™	M	0.59
Ningaloo™	D	0.63
Arkaroola™	D	0.64
Broome™	D	0.64
Inna-bloody-mincka™	D	0.65
Alice Red™	D	0.67
Ben Lomond™	D	0.67
Oona-wup-wup™	D	0.67
Grey Nomad™	D	0.68
Melaleuca™	D	0.68
Fingal™	D	0.73
Lockyer™	D	0.73
Gibber™	D	0.73
Grampians™	D	0.73
Wilpena™	D	0.74
Kingsford Grey™	D	0.74
Kalkajaka™	D	0.78
Kuranda™	D	0.78
Surat™	D	0.95



COLOUR NAME	SOLAR ABSORPTANCE	
	NEXTSTAR™	BLUESCOPE
Freycinet™	0.23	
Coolmax® Whitehaven®		0.23
Coorong™	0.24	
Hotham™	0.24	
Hellfire™	0.26	
Vivonne™	0.29	
Cocky Moleskins™	0.31	
Off White Surfmist®	0.32	0.32
Smooth Cream Classic Cream™		0.32
Exmouth™ Shale Grey®	0.42	0.43
Merino Paperbark®		0.42
Dusk Evening Haze®		0.43
Gairdner™ Dune®	0.46	0.47
Jenolan™	0.48	
Windjana™	0.53	
Cove®		0.54
Kooljaman™	0.55	
Armour Grey Windspray®	0.58	0.58
Cable Grey™	0.59	
Mist Green Pale Eucalypt®		0.60
Gulf Gully®		0.63
Broome™	0.64	
Arkaroola™	0.64	
Manteal Mangrove®		0.64
Wallaroo Wallaby®		0.64
Inna-bloody-mincka™	0.65	
Oona-wup-wup™	0.67	
Ben Lomond™	0.67	

Any reference to BluesScope and/or COLORBOND® names are for comparison purposes only.

COLOUR NAME	SOLAR ABSORPTANCE	
	NEXTSTAR™	BLUESCOPE
Alice Red™	0.67	
Melaleuca™	0.68	
Jasmin Brown Jasper®		0.68
Grey Nomad™ Basalt®	0.68	0.69
Heritage Red Manor Red®		0.69
Territory Terrain®		0.69
Slate Grey Woodland Grey®	0.73	0.71
Monolith Monument®	0.73	0.73
Gibber™	0.73	
Lockyer™	0.73	
Grampians™	0.73	
Fingal™	0.73	
Iron Grey Ironstone®		0.74
Kingsford Grey™	0.74	
Wilpena™	0.74	
Caulfield Green Cottage Green®		0.75
Mountain Blue Deep Ocean®		0.75
Kalkajaka™	0.78	
Kuranda™	0.78	
Surat™	0.95	
Ebony Night Sky®		0.96

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