

Notional Warranty Period – SOUTH AFRICA

The following information can be used as a guide to obtain a *notional* BlueScope Steel Malaysia Sdn. Bhd. (BSM) warranty period for Clean COLORBOND™, Clean COLORBOND™ Spectrum, Clean COLORBOND™ Ultra and ZINCALUME® steel for South Africa used as cladding, subject to all the terms & conditions of the warranty being satisfied.

All warranty application must be submitted to BlueScope Steel Southern Africa Pty Ltd for approval prior to the commencement of construction. The official warranty certificate is only issued upon written confirmation of project completion date.

Please note the official warranty certificate will not be issued if incorrect fasteners are being used. Fasteners must comply with AS3566 Class 3 or 4 and be certified as such by the supplier of the fasteners.

All fixings, flashings and associated components must be manufactured from compatible materials (Clean COLORBOND™ steel, ZINCALUME® steel, zinc or aluminium) or be coated or painted in accordance with current published BlueScope Steel guidelines. For long lasting consistency in appearance, flashing should be made from the same material as cladding.

Failure of the product in terms of fading, chalking and dirt staining is defined as per the following table:

Colour Shade	Maximum Fading (E units Hunterlab) ASTM D-2244 (cleaned)	Maximum Discolouration By Dirt Staining (E units Hunterlab) ASTM D-2244	Maximum Chalk Rating (Tapeoff Test) ISO4628-6
Light (eg. African White)	6	4	2
Intermediate (eg. African Cream)	9	3	2
Dark (eg. Cape Charcoal)	15	2	2

Below is a list of different types of environmental conditions.

<u>ENVIRONMENTAL CATEGORY</u>	WARRANTY PERIOD (Years)
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VERY SEVERE MARINE Includes off-shores areas and up to 100m from the high waterline of areas with breaking surf.	Warranty against			Clean COLORBOND® Ultra steel	
	Corrosion			5*	
	Flake & peel			-	
	Excessive fading			-	
	Dirt staining			-	

SEVERE MARINE Generally between 100m from the beachfront to approximately 400m inland. In high wind areas, may extend further inland depending on prevailing winds and geography of the area. <i>(Or < 100m from calm still water e.g.: harbor)</i> . Characterized by strong salt and haze, salt smearing and salt building-up in unwashed areas of structures. Generally a very noticeable deterioration of most building materials is evident. In this is this environment we would strongly recommend that you only use Clean COLORBOND Ultra	Warranty against	Clean COLORBOND® steel	Clean COLORBOND® Spectrum steel	Clean COLORBOND® Ultra steel	ZINCALUME® steel
	Corrosion	5*	5*	15*	5*
	Flake & peel	5*	-	5*	-
	Excessive fading	3*	-	3*	-
	Dirt staining	1*	1*	1*	-

MODERATE MARINE Generally between 401m and 1000m from marine surf, although strong prevailing winds may extend this distance. <i>(100m – 500m from calm still water)</i> . Characterized by occasionally noticeable slight salt smell. Airborne salt present but not visible as haze If there is visible salt haze in this zone we would recommend you only use of Clean COLORBOND Ultra	Warranty against	Clean COLORBOND® steel	Clean COLORBOND® Spectrum steel	Clean COLORBOND® Ultra steel	ZINCALUME® steel
	Corrosion	15*	10*	20*	15*
	Flake & peel	7.5*	5*	7.5*	
	Excessive fading	5*	3*	5*	-
	Dirt staining	1.8* (21 months)	1.8* (21 months)	1.8* (21 months)	-

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BENIGN Generally greater than 1000m from marine surf or greater than 500m from calm sea water.	Warranty against	Clean COLORBOND® steel	Clean COLORBOND® Spectrum steel	Clean COLORBOND® Ultra steel	ZINCALUME® steel
	Corrosion	20*	15*	25*	20*
	Flake & peel	10*	10*	10*	-
	Excessive fading	5*	5*	5*	-
	Dirt staining	2.5* (30 months)	2.5* (30 months)	2.5* (30 months)	-

- *Notional warranty period provides as guide to the maximum warranty period we will offer in each environment, however the exact number of years of the warranty may vary from the notional period mentioned above based on information provided in the Warranty Application Form and site inspection where required..*
- *Please note all warranty applications must be received prior to commencement of the building*

<u>ENVIRONMENTAL CATEGORY</u>	<u>WARRANTY PERIOD (Years)</u>
VERY SEVERE INDUSTRIAL Characterized by heavy fall out and emissions from stacks, and strong sulfur and acid or alkali smells. Generally a very high rate of corrosion in most building structures is evident.	Special products may be suitable for use. Please enquire.

SEVERE INDUSTRIAL Characterized by fall-out and emissions from stacks, sulfur and acid or alkali smells. Includes only plant building themselves and any building immediately under stacks. Also includes building with high internal humidity and/ or corrosion from operations within.	Special products may be suitable for use. Please enquire.
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HEAVY INDUSTRIAL Typically characterized by less than 500m fall-out from adjoining severe industrial environments or where small industries lead to significant industrial fall-out. Generally includes other service building located near heavy industrial plants, including out-building of the plant itself.	Warranty against	Clean COLORBOND® steel	Clean COLORBOND® Spectrum steel	Clean COLORBOND® Ultra steel	ZINCALUME® steel
	Corrosion	-	-	10*	-
	Flake & peel	-	-	-	-
	Excessive fading	-	-	-	-
	Dirt staining	-	-	-	-

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INDUSTRIAL	Warranty against	Clean COLORBOND® steel	Clean COLORBOND® Spectrum steel	Clean COLORBOND® Ultra steel	ZINCALUME® steel
This environment is widespread in industrial/urban areas, away from all environments listed above and typically more than 500m up to 1000m from heavy industrial fall-out, or < 500m where small industries lead to a moderate level of fall-out from small stacks, etc.	Corrosion	10*	5*	15*	10*
	Flake & peel	5*	-	5*	-
	Excessive fading	3*	-	3*	-
	Dirt staining	1*	1*	1*	-

LIGHT INDUSTRIAL/URBAN	Warranty against	Clean COLORBOND® steel	Clean COLORBOND® Spectrum steel	Clean COLORBOND® Ultra steel	ZINCALUME® steel
This environment is widespread in industrial/urban areas, away from all environments listed above and typically more than 1000m up to 2000m from heavy industrial fall-out, or between 500m to 1000m where small industries lead to a moderate level of fall-out from small stacks, etc.	Corrosion	15*	10*	20*	15*
	Flake & peel	7.5*	5*	7.5*	-
	Excessive fading	5*	3*	5*	-
	Dirt staining	1.8* (21 months)	1.8* (21 months)	1.8* (21 months)	-

MILD URBAN/RURAL	Warranty against	Clean COLORBOND® steel	Clean COLORBOND® Spectrum steel	Clean COLORBOND® Ultra steel	ZINCALUME® steel
Away from all above environments and corrosive fall-out.	Corrosion	20*	15*	25*	20*
	Flake & peel	10*	10*	10*	-
	Excessive fading	5*	5*	5*	-
	Dirt staining	2.5* (30 months)	2.5* (30 months)	2.5* (30 months)	-

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