

Prepainted - PP

GENERAL DESCRIPTION

KIRANA® prepainted steel, specifically designed by BlueScope to provide roofing and wall cladding material for general use. To determine if warranties apply, please contact your nearest BlueScope sales office for advice.

TYPICAL USES

General exterior architectural uses in light to moderate industrial environment, for example, roofing, wall cladding, and other building products such as garage doors and infill panels. For material selection advice, please contact your nearest BlueScope sales office.

STANDARD

AS/NZS 2728:2013 Prefinished/Prepainted sheet metal products for interior/exterior building applications – Performance requirements.

AS 1397:2011 Continuous hot-dip metallic coated steel sheet and strip – Coatings of Zinc and Zinc alloy with aluminium and magnesium.

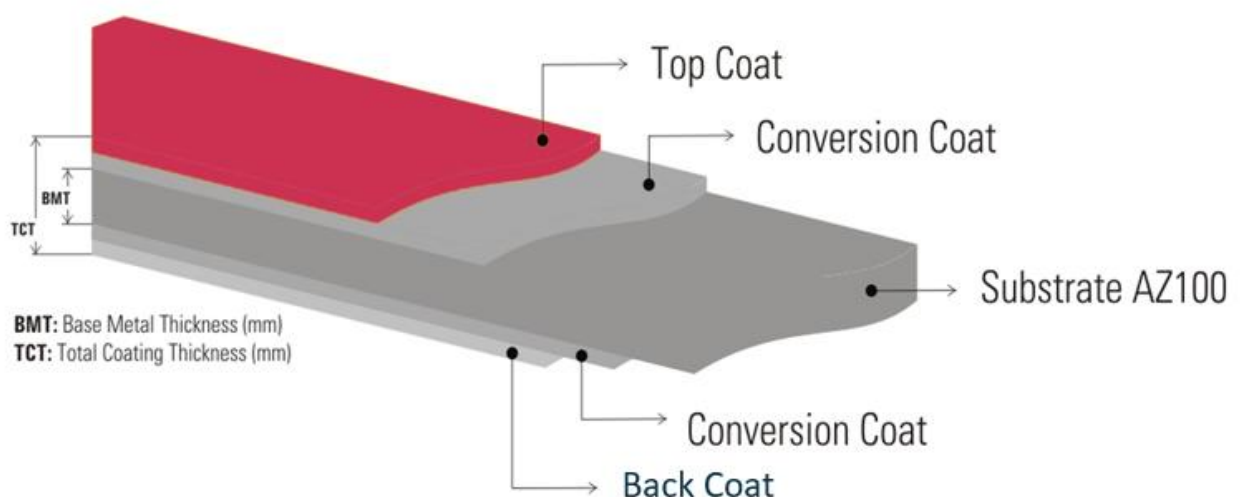
INDONESIA STANDARD

SNI 4096:2007 Baja lembaran dan gulungan lapis paduan Aluminium – seng (Bj.L AS)

SNI 8305:2019 Baja lembaran dan gulungan lapis paduan Aluminium-Seng dan lapis paduan Aluminium-Magnesium lapis cat warna (Bj. LAS Warna – Bj. LAM Warna)

PRODUCT INFORMATION

SUBSTRATE	G550 AZ100 (Aluminium/Zinc alloy-coated steel) (Refer to Note 8)
	G300 AZ100 (Aluminium/Zinc alloy-coated steel) (Refer to Note 8)
PRETREATMENT	Corrosion-resistant proprietary conversion coating
FINISH COAT	Custom formulated polyester paint system. Nominal dry film thickness 10µm on the top or weather side. The finish coat can, if required, be applied to both sides to provide a double-sided product.
BACKING COAT	Custom formulated Abu Semeru. Nominal dry film thickness 5µm
COLOUR	A range of standard colours is available. Other specifically required colours may be available on request.



PT NS BLUESCOPE INDONESIA

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Guaranteed Properties of Steel Based

Mechanical Properties	Guaranteed Minimum	
	G300	G550
Yield Strength (MPa)	300	550
Tensile Strength (MPa)	340	550
Elongation (% - on 50mm)	20	2

Chemical Properties of Steel Based

Elements	Guaranteed Max (%)	
	G300	G550
Carbon	0.30	0.20
Mangan	1.60	1.20
Phosphorus	0.040	0.040
Sulphur	0.035	0.030

Fabricating Performance

Method	G300	G550
Bending	Excellent	Fair
Drawing	Limited	Poor
Pressing	Good	Poor
Roll Forming	Excellent	Excellent
Painting (pretreatment)	Excellent	Excellent
Welding	Good	Good

Dimensional Capabilities

Thickness (BMT)	Width Range	
	G300	G550
0.30	914, 1219	914, 1219
0.35	914, 1219	914, 1219
0.40	914, 1219	914, 1219
0.45	914, 1219	914, 1219
0.60	914, 1219	914, 1219
0.70	914, 1219	914, 1219

Notes:

- The dimensions are a reflection of the technical capability to produce.
- Supply condition may be subject to dimensional restrictions and is subject to PT. NS BlueScope Indonesia Sales and Marketing confirmation.
- Typical mechanical properties are based on typical dispatched to Customer.
- For requirements outside the range of the standard product, please your local Sales Office.

EXPECTED PRODUCT SERVICE PERFORMANCE

The appearance of KIRANA® and other coil-coated products can change over time on exterior weathering not only due to dirt pick-up but also to changes in the paint system itself and resulting in gloss loss, chalking and fading of pigmentation. Colour change, which is largely due to the changes in pigmentation will depend on the colour shade chosen. It is measured using a spectrophotometer, according to ASTM D-2244 on surfaces thoroughly cleaned of dirt, oxidised film and foreign contaminants. The typical appearance changes of standard KIRANA® colours in normal environments after 5 years of service are given in Table 1.

COLOUR SHADE	TYPICAL APPEARANCE CHANGE (ΔE UNITS CIELAB 2000)
Light (e.g. Off White)	≤ 6
Intermediate (e.g. Gull Grey)	≤ 9
Dark (e.g. Sonata Blue)	≤ 15

TABLE 1 – EXPECTED COLOUR CHANGE AFTER 10 YEARS IN NATURAL WELL-WASHED EXPOSURE (AS/NZS 1580.457.1 & ASTM D-2244)

Notes

Refer Note 9 & 10

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ATTRIBUTES TESTED DURING MANUFACTURE

PROPERTY	TEST & EVALUATION METHOD (S)	RESULTS
Specular Gloss		
60°meter	AS/NZS1580.602.2; ASTM D523	Nominal 30 ± 5 units
Adhesion		
Reverse Impact	AS/NZS2728 (Appendix E)	≥ 10 joules
T-bend	AS/NZS2728 (Appendix F)	Maximum 6T. Refer Note 7
Hardness		
Pencil	AS1580.405.1	HB or harder

IMPORTANT NOTES

1. All warranties for a product, if any, are subject to eligibility. Terms and conditions apply. Nothing in this document is intended by BlueScope to extend, modify or otherwise affect any stated product warranty. To find out more, please contact your nearest BlueScope sales office.
2. If it is intended to use KIRANA® in an exterior application within 1km of salt marine locations, severe industrial or abnormally corrosive environments; in areas not washed by rain, or in applications where it will be wholly or partly buried in the ground, please contact your nearest BlueScope sales office for specialized advice.
3. Customers should use the product promptly (within 6 months) to avoid the possibility of storage-related corrosion.
4. Finish Coat – the coating applied to the exposed surface of the prepainted coil which is expected to meet the Performance Requirements.
5. The product is supplied with a nominal 30-unit (60°) gloss Finish Coat.
6. Backing Coat – a thin coating applied to the reverse surface of the prepainted coil. It also gives additional durability to the reverse surface during the service life of the product, but for aesthetic reasons is not recommended for exposure to sunlight. Performance Requirements are generally not applicable to backing coats. Where specific Performance Requirements are deemed necessary for the reverse surface coating, a “double-sided” product should be specified, in which case a topcoat of full nominal thickness will be applied.
7. The minimum internal bend diameters for forming processes to achieve no paint cracking (visible using x 10 magnification) and to avoid paint adhesion issues are specified by the T-bend flexibility and T-bend adhesion results respectively – where 1T equals the Total Coated Thickness (TCT) in mm of the material. These results are based on testing at 20-25°C.
8. For most products, the metallurgical ageing process which is inherent in the paint stoving cycle will result in some loss of ductility compared with unpainted product. However, minimum strength levels designated by relevant standards will still be applicable.
9. Improper storage or use of non-approved roll-forming lubricants may cause brand transfer and paint blushing and may adversely affect colour and long-term durability. Product in coil or sheet pack form must be kept dry. If the coil or sheet pack becomes wet, it must be separated and dried (refer AS/NZS2728 Appendix L, and also Technical Bulletin TB7). Contact nearest BlueScope sales office on appropriate roll forming lubricants.
10. Values quoted are for panels exposed in accordance with AS/NZS2728. Variations for in-situ performance may occur due to the complexity of building design and location.

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