

Revision 5, August 2007
This literature supersedes all previous issues.

GENERAL DESCRIPTION Zacs™ G300 steel - hot-dipped zinc/aluminium alloy-coated steel with a spangled surface and guaranteed minimum yield strength of 300 MPa with good ductility.	TYPICAL USES Garage doors, signs, appliance panels and steel shutters.
	JAPANESE STANDARD JIS G3321 MALAYSIAN STANDARD MS 1196

DIMENSIONS: (For normal supply product)

Preferred base metal thickness, mm*	Strip width range, mm
0.60, 0.80	1219
1.00, 1.20	1219
*Any other sizes may be available on request	

MECHANICAL PROPERTIES

Steel base	Guaranteed	Typical* (Basis: 0.60 mm thick)
Longitudinal tensile		
Yield strength, MPa	300 min**	300 - 390
Tensile strength, MPa	340 min	380 - 440
Elong on 50 mm, %	20 min	20 - 31
Hardness, HR30T	–	55 - 65
180° transverse bend (L axis)	1t	1t

* Typical mechanical properties are based on aggregation of x and 2SD performance.
Note that ductility will decline through a natural ageing process during storage.

**Skin-passing gives ZACS™ steel a marginally higher yield strength and marginally reduced % elongation.

CHEMICAL COMPOSITION

Guaranteed maximum %	
Carbon (C)	0.30
Phosphorus (P)	0.10
Manganese (Mn)	1.60
Sulphur (S)	0.03
Typical %	
Carbon (C)	0.04 - 0.07
Phosphorus (P)	0.01 - 0.02
Manganese (Mn)	0.20 - 0.30
Sulphur (S)	0.01 - 0.02
Silicon (Si)	0.01 - 0.02
Aluminium (Al)	0.025 - 0.08
Nitrogen (N)	0.001 - 0.005

SUPPLY CONDITION

	Normal	Optional#
Coating class	AZ70, AZ90	AZ150
Surface condition	Spangled	Skin-passed
Surface treatment	Passivated/ Resin coated	Passivated/ Non Resin Coated
Tolerance class*		
Thickness	AT	–
Width	AW	–
Flatness	AF	–
Oiling	Not oiled	–

Optional supply conditions may be subject to dimensional restrictions.

* The dimensional tolerances for thickness, width, flatness and camber shall be in accordance with the requirements of AS 1365.

FABRICATING PERFORMANCE

1 – limited to 5 – excellent	
Bending	5
Drawing	2
Pressing	1
Roll-forming	5
Welding	5
Painting (pretreatment)	5

Note: Customers should use this product promptly (within 6 months) to avoid the possibility of storage related corrosion.

Please ensure you have the current data sheet for this product.