

# ZINCSEAL® steel

## G2S

### General description

ZINCSEAL® steel G2S is a low coating mass zinc/iron alloy-coated commercial forming steel suitable for bending and moderate forming. It has a skin-passed smooth surface finish providing a surface suitable for a high quality paint finish.

### Typical uses

Office furniture, light fittings, general fabrication.

### Australian and International Standards

AS/NZS 1365:1996 (R2016)

AS 1397:2021

ISO 9001:2015 Quality System certified

### Guaranteed properties of steel base

| Mechanical properties  | Guaranteed minimum |
|--|--------------------|
| Elongation on 80mm ( $\geq 0.60$ mm) %<br>(transverse tensile) | 27                 |
| 180° Transverse Bend   | 0t                 |

### Chemical composition of steel base

| Chemical properties | Guaranteed maximum % |
|---------------------|----------------------|
| Carbon – C          | 0.10                 |
| Manganese – Mn      | 0.45                 |
| Phosphorus – P      | 0.030                |
| Sulphur – S         | 0.030                |

## Dimensional capabilities

| Thickness range (mm) | Max width (mm) |
|----------------------|----------------|
| 0.55 – 2.0           | 1525           |

Notes: Not every combination of thickness and width may be available. Supply conditions may be subject to dimensional restrictions and are subject to BlueScope Sales and Marketing confirmation. Slitting and shearing available on request from BlueScope Sales Offices. For requirements outside the standard product range please contact your local Sales Office.

## Fire hazard properties

| Test & Evaluation Methods   | Range   | Result  |
|---|---|---|
| <b>Simultaneous determination of ignitability, flame propagation, heat release and smoke release (AS/NZS 1530.3:1999 (R2016)) *</b> | Ignitability Index (0 – 20)   | 0   |
|   | Spread of Flame Index (0 – 10)  | 0   |
|   | Heat Evolved Index (0 – 10)   | 0   |
|   | Smoke Developed Index (0 – 10)  | 1   |
| <b>NCC non-combustible material (NCC 2022)</b>  | National Construction Code, Building Code of Australia 2022; Volume 1 Part C1, C2D10, (5)   | Non-combustible   |
| <b>NCC non-combustible material concessions (NCC 2022; AS/NZS 1530.3:1999 (R2016)) *</b>  | National Construction Code, Building Code of Australia 2022: Volume 2: Section H, Part H3, H3D2, (1)(e)<br>AS/NZS 1530.3:1999 (R2016) | May be used wherever a non-combustible material is required |
| <b>Combustibility test for materials (steel substrate) (AS 1530.1-1994 (R2016)) #</b>   | AS 1530.1-1994 (R2016)  | Not deemed combustible (steel substrate)                    |

\* The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

# These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

## Supply conditions

| Attribute                     | Normal       | Optional             |
|-------------------------------|--------------|----------------------|
| <b>Coating Class</b>          | ZS30         | -                    |
| <b>Surface Condition</b>      | Smooth matte | -                    |
| <b>Surface Treatment</b>      | Phosphated   | Unphosphated (oiled) |
| <b>Branding</b>               | Not branded  | -                    |
| <b>Tolerance – Dimensions</b> | A Class      | B Class              |
| <b>Tolerance – Flatness</b>   | A Class      | B Class              |

Important Notes: Optional supply conditions may be subject to dimensional restrictions.

## Fabricating performance

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| Method                 | Rating |
|------------------------|--------|
| Bending                | 5      |
| Drawing                | 3      |
| Pressing               | 3      |
| Rollforming            | 5      |
| Lock Forming           | -      |
| Welding                | 5      |
| Painting Pre-treatment | 5      |

Where: 1 = Limited to 5 = Excellent or NR = Not Recommended

The ratings in this table are general indicators only, given as a guide to fabricating performance.

## Important information

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This type of product is not suitable for painting in coil form and forming post painting as problems may be experienced with paint adhesion.

Material should be used promptly (within six months) to avoid the possibility of a storage related corrosion. For selection of the most appropriate metallic coated steel, please refer to Technical Bulletins TB1a, TB1b, CTB21 and CTB22. For storage, rollforming lubricants and other information please refer to the Technical Bulletins.

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