# Model Control Code Structure - Galvanised steel

| Item | Category | Sub-Category | Identifier | Sales Data | Cost Data | Key category | Explanation / Notes |
|---|---|---|---|---|---|---|---|
| 1 | Prime | Prime | P | **Mandatory** | Not applicable | **YES** | Reports whether the product is prime or non-prime (secondary) product. Non prime could also be described as not meeting the intended or applicable specification. |
| | | Non - Prime | N | | | | |
| 2 | Steel Base | Hot Rolled | H | **Mandatory** | **Mandatory** | **YES** | Reports whether the galvanised steel substrate is a hot rolled base or whether it is a cold rolled base (ie hot rolled further processed via pickling, side trimming and cold reduction). |
| | | Cold Rolled | C | | | | |
| 3 | Coating Type | Zinc Coated (Z) | Z | **Mandatory** | **Mandatory** | **YES** | Reports the type of zinc coating on the steel surface. This is either a hot dipped coating of zinc or a coating of zinc that has been converted to a zinc/iron alloy post the hot dip process. The common term for zinc/iron alloy galvanised steel is Galvanneal (BSL has a brand name ZINCANNEAL(r) for this product. |
| | | Zinc / Iron Alloy Coating (ZF / F) | F | | | | |
| 4 | Coating Mass (g/m2) | <= 100 g/m2 | 1 | **Mandatory** | **Mandatory** | **YES** | Reports the amount of zinc (Z) or zinc/iron (ZF) coating that has been applied to the base steel. This is expressed as the total (both top and bottom sides) in grams/square metre of surface area. The designated coating mass is a guaranteed minimum value. Note: JIS 3302 expresses coating mass in a shortened manner compared to AS 1397 (i.e. AS 1397 coating of Z275 (g/m2) = Z27 in the JIS 3302 standard, and AS 1397 coating of ZF100 (g/m2) = F10 in the JIS 3302 standard). |
| | | >100 g/m2 to <= 220 g/m2 | 2 | | | | |
| | | > 220 g/m2 to <= 300g/m2 | 3 | | | | |
| | | >Z300 g/m2 to <= 400 g/m2 | 4 | | | | |
| | | >400 g/m2 | 5 | | | | |
| 5 | Steel Grade **AS 1397** / JIS 3302 | **G2** / SGCC / SGHC | A | **Mandatory** | **Mandatory** | **YES** | Reports the steel grade of Galvanised steel. The steel grade determines the guaranteed or typical mechanical properties of the product. The Australian Standard AS 1397 range of steel grades are noted in **bold** with the equivalent Japanese standard JIS 3302 steel grades noted alongside unbolded.<br>The G2 and G3 type grades are 'Formable' steel grades, whilst the G250 to G550 covers the range of 'Structural' steel grades.<br>AS 1397 designates the structural grades via their Minimum Yield Strength whilst the JIS 3302 designates their structural grades via their Minimum Tensile Strength. All other special grades (for example as supplied to the Automotive industry /standards) will fall into the 'other' category for this investigation. |
| | | **G3** / SGCD | B | | | | |
| | | **G250** / SGC 340 / SGHC 340 / SGC 340 / SGHC 340 | C | | | | |
| | | **G300** / **G350** / SGC 400 / SGHC 400 / SGC 440 / SGCH 440 / SGC 490 / SGHC 490 | D | | | | |
| | | **G450 / G500** | E | | | | |
| | | **G550** / SGC 570 | F | | | | |
| | | Other | G | | | | |
| 6 | Base Metal Thickness (mm) | < 0.40 mm | 1 | **Mandatory** | **Mandatory** | **YES** | Reports the Base Metal Thickness (BMT) of the substrate steel before the zinc coating or the zinc/iron coating is applied. For galvanised steel of the same coating mass, the thinner the base metal, the more square metres per tonne and therefore more coating metal is required to be applied and therefore drives a higher cost and a higher selling price. |
| | | => 0.40 mm to < 0.50 mm | 2 | | | | |
| | | => 0.50 mm to < 0.75 mm | 3 | | | | |
| | | => 0.75 mm to < 1.00 mm | 4 | | | | |
| | | => 1.00 mm to < 1.50 mm | 5 | | | | |
| | | => 1.50 mm to < 2.00 mm | 6 | | | | |
| | | => 2.00 mm to <2.50 mm | 7 | | | | |
| | | => 2.50 mm | 8 | | | | |
| 7 | Width (mm) | < 600 mm | A | **Mandatory** | Optional | No | Reports the width of the galvanised steel. In general narrow steel product requires extra processing via a slitting operation and incurs a price extra. |
| | | => 600 mm to <= 1220mm | B | | | | |
| | | > 1220mm | C | | | | |
| 8 | Form | Coil | C | **Mandatory** | Optional | No | Reports the final shape of the galvanised steel - either in coil form or in sheet form. Sheeted product requires extra processing via a shearing operation and incurs a price extra. |
| | | Sheet | S | | | | |

As an example of how a good will be classified using only the Mandatory categories of this MCC structure:- Prime, Cold Rolled, Z275 coating, G2 grade, 1.20mm base thickness, 1200mm wide, Coil - would have an MCC of PCZ3A5BC