



Product Test Certificate

161405

27/10/2016

Certificate Number

Date

RHS/SHS/CHS
Nominal Size (mm)

| PackFrom | PackTo | d /do | b | t | L | Specification | Grade | Product Description |
|-------------|-------------|-------|------|-----|-----|---------------|--------|----------------------|
| 16294M10002 | 16294M10006 | 50.0 | 25.0 | 2.0 | Any | AS1163: 2016 | C350L0 | Galvanised 50x25x2.0 |

| Heat No. | Steel Supplier | Testing Authority/NATA (ILAC) No | | | Steel Chemical Analysis | | | | | | | | | | | | | | | | Mechanical Test Results (Orientation-"L") | | | | | | | | | | |
|----------|----------------|----------------------------------|--------|----------|-------------------------|-------------------|-----------|-----|----|----|-----|----|----|----|----|-----|----|----|---|-------|---|-----|-----------------------------|-----------|--------------|-----|----|--------------------|---|---|-----|
| | | Tensile | Impact | Chemical | Analysis Type "L"/"P" | Testing Report No | C | P | Mn | Si | S | Ni | Cr | Mo | Cu | Al | Ti | Nb | V | B | CE | SiE | Testing Report No-Sample ID | Condition | Tensile Test | | | Impact Test at 0°C | | | |
| | | | | | | | (% x 100) | | | | | | | | | | | | | | | | | | YS | TS | E | 1 | 2 | 3 | Avg |
| MG516 | Import | MTL/19968 | | SS/19570 | P | 65905 | 10 | 1.3 | 38 | <2 | 0.9 | <1 | 2 | 1 | 2 | 5.1 | <1 | <1 | 1 | <0.05 | 17 | 5 | T3356-7303 | A | 415 | 465 | 29 | | | | |

- Notes:**
- 1) $CE = C + Mn / 6 + (Cr + Mo + V) / 5 + (Ni + Cu) / 15$; 2) $SiE = Si + 2.5P$; 3) Gauge Length for E = $5.65\sqrt{So}$; 4) Impact test piece thickness is 5 mm;
 - 5) For t less than 6 mm L0 properties derived as per Cl 9.4.2.3 (b) of AS/NZS 1163; 6) "L" = LADLE, "P" = PRODUCT
 - 7) ALS=Australian Laboratory Services Industrial; MTL = Mec Test Laboratories; SS=Spectrometer Services Pty Ltd; BSL=Bluescope Steel;
 - 8) The production date in the format yyddd constitutes the first 5 digits of the pack number and is printed on each length;
 - 9) THE STEEL IS MADE BY BASIC OXYGEN OR AN ELECTRIC ARC PROCESS AND IS FULLY KILLED, CONTINUOUSLY CAST AND FINE GRAINED. THE STRIP WAS HOT ROLLED AT THE HOT STRIP MILL.



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Packs covered by this certificate

| Heat | Pack Numbers |
|-------|---|
| MG516 | 16294M10002 16294M10003 16294M10004 16294M10005 16294M10006 |

Australian Pipe and Tube confirms that products listed above were manufactured, tested, and supplied in full compliance with the specifications quoted in this certificate.

Authorized signatory: L. DONALD

CEO