

RHS/SHS/CHS
Nominal Size (mm)

| PackFrom | PackTo | d /do | b | t | L | Specification | Grade | Product Description |
|-------------|-------------|-------|------|-----|-----|---------------|--------|---------------------|
| 16270M10007 | 16270M10032 | 75.0 | 50.0 | 4.0 | Any | AS1163: 2016 | C350L0 | Painted 75x50x4.0 |

| 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 | | | | | | | | | | | | | | | | | |
| 9S443 | Import | MTL/19968 | | L2734-130526 | L | MANUAL | 17 | 1 | 75 | 1 | 1 | 1 | 1 | 0 | 1 | 5.4 | 0.1 | 0.1 | 0.2 | 0 | 30 | 4 | T3334-7127 | A | 415 | 513 | 34 | | | | |
| 9S447 | Import | MTL/19968 | | L2734-130513 | P | MANUAL | 17 | 1.5 | 77 | 1 | .4 | .1 | 1 | 0 | 0 | 4.2 | 0 | .1 | .03 | 0 | 31 | 5 | T3334-7126 | A | 514 | 578 | 25 | | | | |
| 9S451 | Import | MTL/19968 | | L2734-130514 | P | MANUAL | 17 | 2.4 | 77 | 1 | 0.7 | 1 | 1 | 0 | 1 | 3.1 | 0.1 | 0.2 | 0.4 | 0 | 31 | 7 | T3334-7129 | A | 423 | 507 | 35 | | | | |
| 9S453 | Import | MTL/19968 | | L2734-130526 | L | MANUAL | 18 | 1.7 | 78 | 1 | 0.7 | 1 | 1 | 0 | 1 | 3.9 | 0.3 | 0.2 | 0.2 | 0 | 32 | 5 | T3334-7123 | A | 448 | 534 | 28 | | | | |
| 9S456 | Import | MTL/19968 | | L2734-13053 | L | 6T07125 | 17 | 1 | 77 | 1 | 1.3 | 1 | 1 | 0 | 1 | 4.7 | 0 | .2 | .1 | | 31 | 4 | T3334-7128 | A | 475 | 545 | 29 | | | | |
| 9S671 | Import | MTL/19968 | | L2734-13053 | L | 6T07125 | 17 | 1.7 | 76 | 1 | .9 | 1 | 1 | 0 | 1 | 3.8 | .1 | .2 | .1 | | 31 | 5 | T3334-7124 | A | 492 | 581 | 25 | | | | |
| 9S672 | Import | MTL/19968 | | L2734-130513 | L | 6T07847 | 18 | 1.8 | 75 | 1 | 0.6 | 1 | 1 | 0 | 1 | 4.4 | 0.1 | 0.2 | 0.2 | 0 | 32 | 6 | T3334-7125 | A | 424 | 525 | 34 | | | | |

- Notes:**
- 1) $CE=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15$; 2) $SiE=Si+2.5P$; 3) Gauge Length for E= 5.65VSo; 4) Impact test piece thickness is 5 mm;
 - 5) For t less than 6 mm L0 properties derived as per CI 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.



Product Test Certificate

161361

Certificate Number

29/09/2016

Date

Packs covered by this certificate

| Heat | Pack Numbers |
|-------|---|
| 9S453 | 16270M10007 16270M10008 16270M10009 16270M10010 16270M10011 |
| 9S453 | 16270M10007 16270M10008 16270M10009 16270M10010 16270M10011 |
| 9S671 | 16270M10011 16270M10012 16270M10013 |
| 9S672 | 16270M10013 16270M10014 16270M10015 16270M10016 16270M10017 |
| 9S447 | 16270M10017 16270M10018 16270M10019 16270M10020 16270M10024 16270M10025 16270M10026 |
| 9S443 | 16270M10020 16270M10021 16270M10022 16270M10029 16270M10030 16270M10032 |
| 9S443 | 16270M10020 16270M10021 16270M10022 16270M10029 16270M10030 16270M10032 |
| 9S456 | 16270M10022 16270M10023 16270M10024 |



Product Test Certificate

161361

Certificate Number

29/09/2016

Date

| | |
|-------|---|
| 9S451 | 16270M10026 16270M10027 16270M10028 16270M10029 |
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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**