

RHS/SHS/CHS
Nominal Size (mm)

| PackFrom | PackTo | d / do | b | t | L | Specification | Grade | Product Description |
|-------------|-------------|--------|------|-----|-----|----------------------|--------|---------------------|
| 21354M10048 | 21354M10064 | 100.0 | 50.0 | 1.6 | Any | AS/NZS AS1163 : 2016 | C350L0 | Painted 100x50x1.6 |

| 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 |
| 7812659 | Australia-BSL | VTS/19968 | | BSL/632 | L | D86720 | 15.9 | 2 | 72 | <0.5 | 1.3 | 1.6 | 3.9 | 0.3 | 4.1 | 2.8 | <0.2 | 0.1 | <0.3 | <0.03 | 29 | 6 | VT21-650-22925 | A | 420 | 500 | 31 | | | | |

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; VTS= Victorian Testing Inspection Services P/L; 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.
- 10) Statistical sampling to AS1163 CI B3.2.
- 11) Tensile test performed to AS1391, impact test- to AS1544.2



Product Test Certificate

221136

Certificate Number

24/3/2022

Date



CERT NO.
161104

Packs covered by this certificate

| Heat | Pack Numbers |
|---------|---|
| 7812659 | 21354M10048 21354M10049 21354M10050 21354M10051 21354M10052 21354M10053 21354M10054 21354M10055 21354M10056 21354M10057 21354M10058 21354M10059 21354M10060 21354M10064 |

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: **MIKE DOUBLEDAY**
MANAGER