

RHS/SHS/CHS
Nominal Size (mm)

| PackFrom | PackTo | d /do | b | t | L | Specification | Grade | Product Description |
|-------------|-------------|-------|------|-----|-----|----------------------|--------|------------------------|
| 22154M10008 | 22154M10027 | 50.0 | 50.0 | 2.5 | Any | AS/NZS AS1163 : 2016 | C350L0 | Painted/NOPC 50x50x2.5 |

| 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 |
| 6817269 | Australia-BSL | VTS/19968 | | BSL/632 | L | D91489 | 16.5 | 1.4 | 72 | <0.5 | 1.4 | 1.5 | 2.7 | 0.3 | 4.6 | 3.6 | <0.2 | 0.1 | <0.3 | 0.03 | 30 | 4 | 22-224/3-26178 | A | 454 | 514 | 28 | | | | |
| 6817269 | Australia-BSL | VTS/19968 | | BSL/632 | L | D91489 | 16.5 | 1.4 | 72 | <0.5 | 1.4 | 1.5 | 2.7 | 0.3 | 4.6 | 3.6 | <0.2 | 0.1 | <0.3 | 0.03 | 30 | 4 | 22-224/4-26180 | A | 449 | 519 | 24 | | | | |
| 6819119 | Australia-BSL | VTS/19968 | | BSL/632 | L | C37260 | 15.7 | 1.5 | 72 | <0.5 | 1.2 | 1.7 | 3.6 | 0.4 | 4.2 | 2.8 | <0.2 | 0.1 | <0.3 | <0.03 | 29 | 4 | | | | | | | | | |
| 6819119 | Australia-BSL | VTS/19968 | | BSL/632 | L | C37268 | 15.7 | 1.5 | 72 | <0.5 | 1.2 | 1.7 | 3.6 | 0.4 | 4.2 | 2.8 | <0.2 | 0.1 | <0.3 | <0.03 | 29 | 4 | | | | | | | | | |

- 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 Cl 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 Cl B3.2.
 - 11) Tensile test performed to AS1391, impact test- to AS1544.2



Product Test Certificate

221265

Certificate Number

9/06/2022

Date



CERT NO.
161104

Packs covered by this certificate

| Heat | Pack Numbers |
|---------|---|
| 6817269 | 22154M10008 22154M10009 22154M10010 22154M10011 22154M10012 22154M10013 22154M10014 22154M10019 22154M10020 22154M10021 22154M10022 22154M10023 22154M10025 22154M10026 |
| 6819119 | 22154M10015 22154M10016 22154M10017 22154M10018 22154M10019 22154M10023 22154M10024 22154M10025 22154M10027 |
| 6819119 | 22154M10015 22154M10016 22154M10017 22154M10018 22154M10019 22154M10023 22154M10024 22154M10025 22154M10027 |

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