

RHS/SHS/CHS
Nominal Size (mm)

| PackFrom | PackTo | d / do | b | t | L | Specification | Grade | Product Description |
|-------------|-------------|--------|------|-----|-----|----------------------|--------|---------------------|
| 22116M10030 | 22116M10042 | 89.0 | 89.0 | 3.5 | Any | AS/NZS AS1163 : 2016 | C350L0 | Painted 89x89x3.5 |
| 22117M10001 | 22117M10001 | | | | | | | |

| 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 |
| 6821249 | Australia-BSL | VTS/19968 | | BSL/632 | L | D92753 | 16.6 | 1.3 | 72 | 0.5 | 1.2 | 1.6 | 3.5 | 0.3 | 4 | 3.4 | <0.2 | 0.1 | <0.3 | <0.03 | 30 | 4 | 22-140/14-25126 | A | 468 | 547 | 31 | | | | |

Notes:

- CE=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15;
- SiE=Si+2.5P;
- Gauge Length for E= 5.65VSo;
- Impact test piece thickness is 5 mm;
- For t less than 6 mm L0 properties derived as per Cl 9.4.2.3 (b) of AS/NZS 1163;
- "L" = LADLE, "P" = PRODUCT
- ALS=Australian Laboratory Services Industrial; VTS= Victorian Testing Inspection Services P/L; SS=Spectrometer Services Pty Ltd; BSL=Bluescope Steel;
- The production date in the format yyddd constitutes the first 5 digits of the pack number and is printed on each length;
- 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.
- Statistical sampling to AS1163 Cl B3.2.
- Tensile test performed to AS1391, impact test- to AS1544.2



Product Test Certificate

221214

Certificate Number

3/05/2022

Date



CERT NO.
161104

Packs covered by this certificate

| Heat | Pack Numbers |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6821249 | 22116M10030 22116M10031 22116M10032 22116M10033 22116M10034 22116M10035 22116M10036 22116M10037 22116M10038 22116M10039 22116M10040 22116M10041 22116M10042 22117M10001 |

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