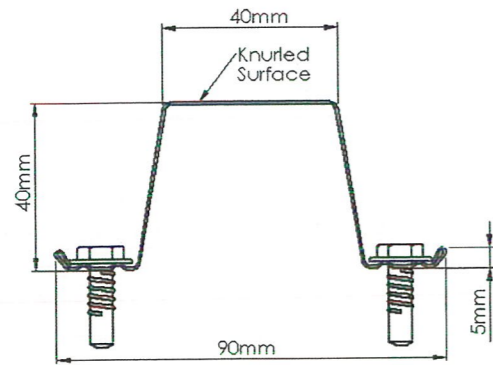


IN ACCORDANCE WITH NCC VOLUME 2 (SECTION P3.10.1), THIS PRODUCT SATISFIES PERFORMANCE REQUIREMENT P2.1.1 FOR CONSTRUCTION IN A HIGH WIND AREA.

**Profile**



**Notes:**

- Suitable for use with Stramit<sup>®</sup> Corrugated, Monoclad<sup>®</sup> and Longspan<sup>®</sup> roofing profiles.
- Use No 14 Type 17 screws for crest fixing the roofing profiles to the batten (refer to relevant DTC sheet associated with the cladding to be used)
- All fasteners should conform to AS3566 Class 4

**Span tables**

| STRAMIT <sup>®</sup> 0.75 CYCLONIC ROOF BATTENS MAXIMUM BATTEN SPACING (mm) |                     |                       |                                    |                              |   |      |      |      |   |      |      |      |
|---|---------------------|-----------------------|------------------------------------|------------------------------|---|------|------|------|---|------|------|------|
| C <sub>p,e</sub> = -0.9 (h/d ≤ 0.5)   |                     |                       |                                    |                              |   |      |      |      |   |      |      |      |
| Terrain Category  | Average roof height | Local pressure factor | Serviceability Wind Pressure (kPa) | Strength Wind Pressure (kPa) | Truss spacing (mm), fastening and truss material  |      |      |      |   |      |      |      |
|   |                     |                       |                                    |                              | 2 x No 14-10x25mm screws into 1.5 G450 steel, or 2 x No 14-10x50mm Type 17 into softwood (J4/JD4) or 2 x No 14-10x40mm Type 17 into hardwood (J2/JD2) |      |      |      | 2 x No 12-14x20mm screws into 1.5 G450 steel, or 2 x No 12-11x50mm Type 17 into softwood (J4/JD4) or 2 x No 12-11x40mm Type 17 into hardwood (J2/JD2) |      |      |      |
|   |                     |                       |                                    |                              | 450   | 600  | 900  | 1200 | 450   | 600  | 900  | 1200 |
| 1&2   | up to 10m           | 1.0                   | 1.65                               | 5.16                         | 1400  | 1050 | 700  | 500  | 1200  | 900  | 600  | 450  |
|   |                     | 1.5                   | 2.32                               | 6.61                         | 1050  | 800  | 500  | 400  | 900   | 700  | 450  | 350  |
|   |                     | 2.0                   | 2.99                               | 8.06                         | 850   | 650  | 400  | -    | 750   | 550  | 350  | -    |
|   |                     | 3.0                   | 4.34                               | 10.97                        | 650   | 450  | -    | -    | 550   | 400  | -    | -    |
| 1&2   | up to 5m            | 1.0                   | 1.45                               | 4.54                         | 1550  | 1150 | 750  | 550  | 1350  | 1000 | 650  | 500  |
|   |                     | 1.5                   | 2.04                               | 5.81                         | 1200  | 900  | 600  | 450  | 1050  | 800  | 500  | 400  |
|   |                     | 2.0                   | 2.63                               | 7.09                         | 1000  | 750  | 500  | 350  | 850   | 650  | 400  | -    |
|   |                     | 3.0                   | 3.81                               | 9.64                         | 750   | 550  | 350  | -    | 600   | 450  | -    | -    |
| 2.5   | up to 10m           | 1.0                   | 0.99                               | 3.11                         | 2300  | 1700 | 1150 | 850  | 2000  | 1500 | 1000 | 750  |
|   |                     | 1.5                   | 1.40                               | 3.99                         | 1800  | 1350 | 900  | 650  | 1550  | 1150 | 750  | 550  |
|   |                     | 2.0                   | 1.81                               | 4.87                         | 1450  | 1100 | 700  | 550  | 1250  | 950  | 600  | 450  |
|   |                     | 3.0                   | 2.62                               | 6.62                         | 1050  | 800  | 500  | 400  | 900   | 700  | 450  | 350  |
| 3&4   | up to 10m           | 1.0                   | 0.90                               | 2.83                         | 2550  | 1900 | 1250 | 950  | 2200  | 1650 | 1100 | 800  |
|   |                     | 1.5                   | 1.27                               | 3.63                         | 1950  | 1450 | 950  | 700  | 1700  | 1250 | 850  | 600  |
|   |                     | 2.0                   | 1.64                               | 4.43                         | 1600  | 1200 | 800  | 600  | 1400  | 1050 | 700  | 500  |
|   |                     | 3.0                   | 2.38                               | 6.02                         | 1200  | 900  | 600  | 450  | 1000  | 750  | 500  | 350  |

| STRAMIT <sup>®</sup> 0.75 CYCLONIC ROOF BATTENS MAXIMUM BATTEN SPACING (mm) |                     |                       |                                    |                              |   |      |      |      |   |      |     |      |
|---|---------------------|-----------------------|------------------------------------|------------------------------|---|------|------|------|---|------|-----|------|
| C <sub>p,e</sub> = -1.3 (h/d ≥ 1.0)   |                     |                       |                                    |                              |   |      |      |      |   |      |     |      |
| Terrain category  | Average roof height | Local pressure factor | Serviceability wind pressure (kPa) | Strength wind pressure (kPa) | Truss spacing (mm), fastening and truss material  |      |      |      |   |      |     |      |
|   |                     |                       |                                    |                              | 2 x No 14-10x25mm screws into 1.5 G450 steel, or 2 x No 14-10x50mm Type 17 into softwood (J4/JD4) or 2 x No 14-10x40mm Type 17 into hardwood (J2/JD2) |      |      |      | 2 x No 12-14x20mm screws into 1.5 G450 steel, or 2 x No 12-11x50mm Type 17 into softwood (J4/JD4) or 2 x No 12-11x40mm Type 17 into hardwood (J2/JD2) |      |     |      |
|   |                     |                       |                                    |                              | 450   | 600  | 900  | 1200 | 450   | 600  | 900 | 1200 |
| 1&2   | up to 10m           | 1.0                   | 2.24                               | 6.45                         | 1100  | 800  | 550  | 400  | 950   | 700  | 450 | 350  |
|   |                     | 1.5                   | 3.22                               | 8.55                         | 800   | 600  | 400  | -    | 700   | 500  | 350 | -    |
|   |                     | 2.0                   | 4.19                               | 10.64                        | 650   | 500  | -    | -    | 550   | 400  | -   | -    |
|   |                     | 3.0                   | 4.79                               | 11.93                        | 600   | 450  | -    | -    | 500   | 350  | -   | -    |
| 1&2   | up to 5m            | 1.0                   | 1.97                               | 5.67                         | 1250  | 950  | 600  | 450  | 1100  | 800  | 550 | 400  |
|   |                     | 1.5                   | 2.83                               | 7.51                         | 950   | 700  | 450  | 350  | 800   | 600  | 400 | -    |
|   |                     | 2.0                   | 3.68                               | 9.35                         | 750   | 550  | 350  | -    | 650   | 500  | -   | -    |
|   |                     | 3.0                   | 4.21                               | 10.49                        | 650   | 500  | -    | -    | 550   | 400  | -   | -    |
| 2.5   | up to 10m           | 1.0                   | 1.35                               | 3.89                         | 1850  | 1350 | 900  | 650  | 1600  | 1200 | 800 | 600  |
|   |                     | 1.5                   | 1.94                               | 5.16                         | 1400  | 1050 | 700  | 500  | 1200  | 900  | 600 | 450  |
|   |                     | 2.0                   | 2.53                               | 6.42                         | 1100  | 800  | 550  | 400  | 950   | 700  | 450 | 350  |
|   |                     | 3.0                   | 2.89                               | 7.20                         | 1000  | 750  | 500  | 350  | 850   | 650  | 400 | -    |
| 3&4   | up to 5m            | 1.0                   | 1.23                               | 3.54                         | 2000  | 1500 | 1000 | 750  | 1750  | 1300 | 850 | 650  |
|   |                     | 1.5                   | 1.77                               | 4.69                         | 1500  | 1150 | 750  | 550  | 1300  | 1000 | 650 | 500  |
|   |                     | 2.0                   | 2.30                               | 5.85                         | 1200  | 900  | 600  | 450  | 1050  | 800  | 500 | 400  |
|   |                     | 3.0                   | 2.63                               | 6.55                         | 1100  | 800  | 550  | 400  | 950   | 700  | 450 | 350  |

Product name  
**STRAMIT<sup>®</sup> CYCLONIC ROOF BATTEN**

Product Description  
Stramit<sup>®</sup> Cyclonic Roof Batten is manufactured from 0.75mm BMT, G550 grade steel, with zinc/aluminium or aluminium/zinc/magnesium alloy coated steel.

Manufacturer's Name  
**Stramit Building Products**  
57-71 Platinum St. Crestmead QLD 4132

Design Criteria  
Spans are based on the combinations of the following factors, for Region C, in accordance with AS/NZS1170.2:2011(Incl Amendment 1 to 5)

Strength: Regional wind speed V<sub>500</sub> = 69m/s  
Serviceability: Regional wind speed V<sub>25</sub> = 47m/s

Terrain / Height Multiplier (M<sub>z,cat</sub>): as per table 4.1 in AS/NZS1170.2:2011

| TC  | 'h' up to 5m | 'h' up to 10m |
|-----|--------------|---------------|
| 1&2 | 1.05         | 1.12          |
| 2.5 | 0.87         | 0.92          |
| 3&4 | 0.83         | 0.83          |

Wind direction multiplier: M<sub>d</sub> = 1.0  
Shielding multiplier: M<sub>s</sub> = 1.0  
Topographic multiplier: M<sub>t</sub> = 1.0  
Dynamic response factor: C<sub>dyn</sub> = 1.0  
Combination factor: K<sub>c</sub> = 0.9  
Internal pressure coefficient: C<sub>p,i</sub> = +0.2 service  
Internal pressure coefficient: C<sub>p,i</sub> = +0.7 strength

External pressure coefficients:  
C<sub>p,e</sub> = -0.9 for h/d ≤ 0.5, and for horizontal distance from windward edge of the roof up to 'h'  
C<sub>p,e</sub> = -1.3 for h/d ≥ 1.0, and for horizontal distance from windward edge of the roof up to '0.5h'  
TC - Terrain category, h - Average roof height, d - Building length or depth, and local pressure factors as defined in AS/NZS1170.2:2011 (including amendment 1,2,3,4 & 5)  
Test factor k<sub>t</sub> = 1.56 or 1.79 (applied to 14 and 12 gauge screws respectively) in accordance with Table B1 of AS/NZS1170.0:2002 (inc Amdt 1 to 5)

**Limitations:**  
- This DTC sheet is for roof applications only.  
- All batten spacings shown are for three or more equal spans.  
- Roof batten spacing is influenced by support (truss) spacing or sheeting spans.  
- Pair of screws at connections must be in line and parallel with the supporting member.  
- All truss spacings (batten spans) shown are suitable for foot traffic loads to NASH Standard Part 1.  
- Batten spans are based on the use of screws tested and specified on this data sheet for each support type and thickness.  
- **Maximum batten spacing may be limited by span of the cladding. It is essential that this sheet is read in conjunction with the relevant deemed to comply information for the roof sheeting adopted.**

**Accepted for Inclusion**

DTCM ref: M/716  
Chairman's Signature: [Signature]

Chairman's Name: Paul Nowland

Date of Approval: 18/09/2020 Expiry Date: 18/09/2025

**Notes covering basis of DTC (Relevant test reports etc.)**  
- Tables are based on an extensive LHL test program (Test Report No. TS717) carried out by James Cook University Cyclone Testing Station between Dec 2008 and April 2010 in accordance with BCA of the time (equivalent to L-H-L within NCC 2019)  
- Stramit<sup>®</sup> Cyclonic Roof Batten has a lightly knurled upper surface that assists in maintaining a foothold during installation.  
- For all other details and limitations, please refer to Stramit<sup>®</sup> Top Hats and Battens Product Technical Manual.

**\*Design Engineer's Certification**  
Name: Yuri Arguedas  
Registration Number: 845724  
Date: 21/08/2020  
Signature: [Signature]  
\*registered as a structural engineer in Australia

**\*\*Certifying Engineer's Certification**  
Name: Adam James  
Registration Number: 26968ES  
Date: 14/08/2020  
Signature: [Signature]  
\*\*registered as a structural engineer in Northern Territory