

**DeltaCorroCorro-EPS-FR** is an Insulated Roof Panel System, comprising of two pre-painted, roll-formed steel skins, bonded to a fire retardant grade expanded polystyrene insulating core.

Both skins offer classical corrugated lines with all of the benefits of modern Insulated Panel technologies.

### CodeMark

CodeMark Australia Certificate CM40309 certifies that DeltaCorroCorro-EPS-FR complies with the stated NCC2022 performance requirements. Please refer to the certificate as displayed on our website for the exact details of the compliance.



### Recommendations

- Commercial Buildings
- Community Covered Areas
- Schools
- Sporting Complexes
- Covered Walkways
- Wineries
- Architectural Features
- Shopping Centres

### Colour Range - Warranty

Expanded Polystyrene Fire-Retardant Grade (EPS-FR) is a thermoplastic that when exposed to high levels of sustained heat is subject to changes in its structural properties. On extremely hot days with no cooling wind, dark colours have been recorded as reaching extreme temperatures. The manufacturer of the steel recommends the following colours, subject to conditions of use, will maintain a temperature under 78.0°C dry heat (see clause 9, sub-clause j of our product Warranty). Please refer to Clause 12 of the Warranty – Roof Products for full details.

- Off White / Surfmist ®
- Gull Grey / Shale Grey™
- Merino / Paperbark ®
- Mist Green / Paperbark ®
- Smooth Cream / Classic Cream™
- Hamptons White
- Zinc
- Birch / Dune ®
- Armour Grey / Windspray

To maintain Warranty cover with dark colours it is therefore recommended that a Thermosetting Phenolic Composite (TPC) or Mineral Wool (MW) core be used for all colours not listed above.

® Colour names are registered trademarks of Bluescope Steel Limited

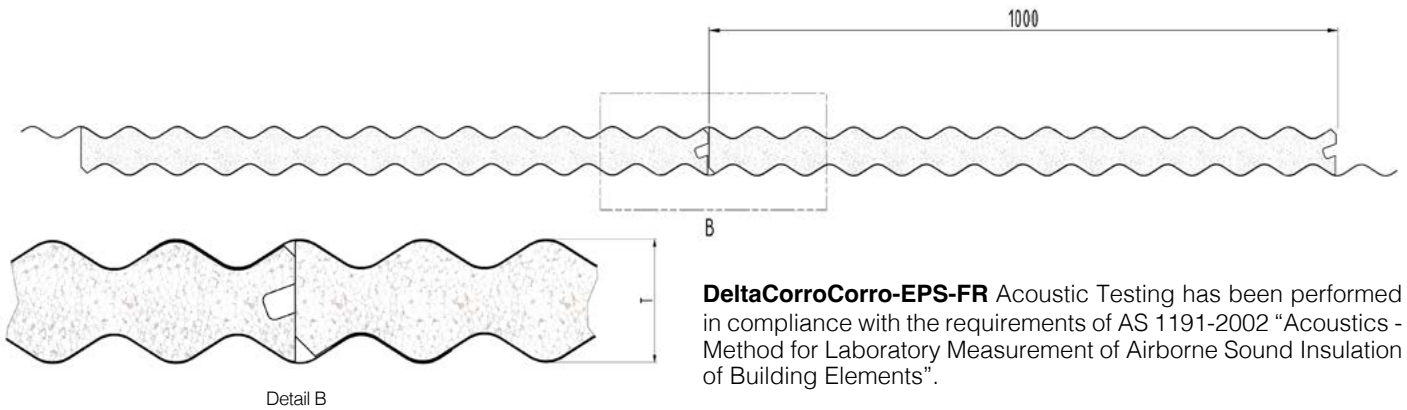
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Please refer to the web page for the available colour range, paint finishes and relevant warranty conditions.



Due to the nature of the manufacturing process the actual dimensions may vary. Please refer to the stated acceptable tolerances allowances.

|   |   |                             |               |
|---|---|-----------------------------|---------------|
| <b>Steel Skin Details</b>   | Top Skin                                    | 0.42mm / G550 AZ150         |               |
|   | Bottom Skin                                 | 0.42mm / G550 AZ150         |               |
| <b>Max. Skin Temperature</b>  | 78°C Dry Heat                               |                             |               |
| <b>Core Material Details</b>  | Expanded Polystyrene - Fire Retardant Grade |                             |               |
| <b>Thermal Conductivity AS 1366.2/ASTM C 518</b>                                  | Average 0.042 W/mK @23°C                    |                             |               |
| <b>Adhesive</b>   | Thermosetting two-part adhesive             |                             |               |
| <b>Core Density</b>   | 13.5kg/m <sup>3</sup>                       |                             |               |
| <b>Panel Weight (kgs/m<sup>2</sup>) based on 0.6mm steel skins</b>                | 75mm Panel                                  | 10.94                       |               |
|   | 100mm Panel                                 | 11.30                       |               |
|   | 125mm Panel                                 | 11.66                       |               |
|   | 150mm Panel                                 | 12.02                       |               |
|   | 175mm Panel                                 | 12.38                       |               |
|   | 200mm Panel                                 | 12.72                       |               |
|   | 225mm Panel                                 | 13.06                       |               |
| <b>External Roof R Value (m<sup>2</sup>.K/W) AS/NZS 4859 Parts 1 &amp; 2:2018</b> | Thickness                                   | Winter (15°C)               | Summer (23°C) |
|   | 75mm Panel                                  | 1.90                        | 1.85          |
|   | 100mm Panel                                 | 2.52                        | 2.43          |
|   | 125mm Panel                                 | 3.13                        | 3.02          |
|   | 150mm Panel                                 | 3.69                        | 3.56          |
| <b>Certificate of Conformity</b>  | CodeMark Australia Certificate - CM40309    |                             |               |
|   | <b>Length Tolerance (mm)</b>                | 5mm +/-                     |               |
|   | <b>Sheet Coverage (mm)</b>                  | 1000mm 5mm +/-              |               |
|   | <b>Length (mm)</b>                          | Cut to Length Min of 1800mm |               |
| <b>Thickness (mm)</b>   | 75, 100, 125, 150, 175, 200, 225, 250       |                             |               |
| <b>Minimum Roof Pitch</b>   | Building Classes 1-9                        | - 5°                        |               |
|   | Building Class 10                           | - 3°                        |               |



**DeltaCorroCorro-EPS-FR** Acoustic Testing has been performed in compliance with the requirements of AS 1191-2002 "Acoustics - Method for Laboratory Measurement of Airborne Sound Insulation of Building Elements".

The procedures specified by AS 1276-1979 and AS/NZS ISO 717.1:2004 were used to calculate the Sound Transmission Class (STC) and the Weighted Sound Reduction Index  $R_w = 25$  dB.

**DeltaCorroCorro-EPS-FR** is classified as trafficable when used for maintenance purposes. The following recommendations should be observed at all times.

### Recommendations

- Wear flat, rubber soled shoes
- Walk over the roof supporting beams
- Spread your weight over as many roof crests as possible
- Crawl boards should be used when accessing areas not supported by a structure

### Early Fire Hazard Properties AS 1530.3:1999

AWTA Test Report 18-006076 14-11-2018

| Index           | Test Range | External Top Skin |
|-----------------|------------|-------------------|
| Ignitability    | 0-20       | 0                 |
| Spread of Flame | 0-10       | 0                 |
| Heat Evolved    | 0-10       | 0                 |
| Smoke Developed | 0-10       | 2                 |

### Single Spans (mm)

| Wind Category | Panel Thickness | 3 Sides Open | 2 Sides Open | 1 Side Open | Fully Enclosed |
|---------------|-----------------|--------------|--------------|-------------|----------------|
| N2 (W33)      | 75              | 4900         | 4900         | 4900        | 4900           |
|               | 100             | 6300         | 6300         | 6300        | 6300           |
|               | 125             | 7600         | 7600         | 7600        | 7600           |
| N3 (W41)      | 75              | 4800         | 4400         | 4000        | 4000           |
|               | 100             | 6000         | 5600         | 5100        | 5100           |
|               | 125             | 7300         | 6700         | 6100        | 6100           |
| N4 (W50)      | 75              | 4000         | 3500         | 3200        | 3200           |
|               | 100             | 5000         | 4600         | 4200        | 4200           |
|               | 125             | 6000         | 5600         | 5000        | 5000           |

### DeltaCorroCorro-EPS-FR Acoustic Values

| Frequency |            | 50mm  | 125mm |
|-----------|------------|-------|-------|
|           | 100        |       | 15.41 |
| 200       |            | 18.81 | 17.70 |
| 400       |            | 22.31 | 19.69 |
| 800       |            | 23.69 | 17.31 |
| 1000      |            | 25.61 | 18.29 |
| 1250      |            | 21.01 | 30.10 |
| 2000      |            | 34.79 | 37.30 |
| 2500      |            | 41.70 | 37.09 |
| 5000      |            | 44.61 | 39.90 |
|           | <b>STC</b> | 24.00 | 23.00 |
|           | <b>RW</b>  | 25.00 | 24.00 |

### DeltaCorroCorro-EPS-FR Fixing Details

Crest fixing only. One fixing every second crest

| Panel Thickness (mm) | Fixing into Steel           | Fixing into Timber          |
|----------------------|-----------------------------|-----------------------------|
| 75                   | Tek 14 x 115 Hex Head Screw | T17 14 x 125 Hex Head Screw |
| 100                  | Tek 14 x 135 Hex Head Screw | T17 14 x 150 Hex Head Screw |
| 125                  | Tek 14 x 150 Hex Head Screw | T17 14 x 175 Hex Head Screw |
| 150                  | Tek 14 x 175 Hex Head Screw | T17 14 x 200 Hex Head Screw |
| 175                  | Tek 14 x 200 Hex Head Screw | T17 14 x 230 Hex Head Screw |
| 200                  | Tek 14 x 230 Hex Head Screw | T17 14 x 265 Hex Head Screw |
| 225                  | Tek 14 x 260 Hex Head Screw | T17 14 x 265 Hex Head Screw |
| 250                  | Tek 14 x 300 Hex Head Screw | T17 14 x 300 Hex Head Screw |

Use Cyclone Plate and Neo Washer on each fixing.

Upon Installation the overlap needs to be stitch screwed or riveted every 300mm.



As at the stated Version Date all of the information contained in this document is correct. Please check on our WebPage to ensure that you're referencing the current version.

