**FEATURES/BENEFITS**

- Economical – low cost roof and wall cladding available in long lengths.
- Easy Fixing – easy to install through fixed screws maximise performance and installation.
- 762mm Cover – quick installation and easy handling.
- Hi-Tensile Steel – light weight and high strength.
- 5° Minimum Pitch – to suit most traditional applications.
- Anti-capillary Side Laps – ½ rib overlaps for weather protection.
- Spring Curving – ideal for curved roofs.
- Curving Quality – available in 0.6mm thick G300 steel for architectural roofs or bullnosing.
- Fully Tested – a full range of load performance tables to suit most applications.

**APPLICATIONS**

The soft uniformity of Stramit® Corrugated cladding gives it a unique versatility for architectural applications. Still favoured for traditional styled housing, it is also the first choice for contemporary steel-roofed homes.

Stramit® Corrugated cladding is the most readily curved roofing profile either spring-curved or bullnosed. This has helped to make it popular for smaller commercial applications in both roofing and walling.

Stramit® Corrugated cladding is only intended for use in commercial/industrial/residential roof or wall cladding applications. Do not use for any other purpose.

**MATERIALS**

Stramit® Corrugated cladding is manufactured from G550 or G300 colour coated steel, aluminium-zinc-magnesium or zinc-aluminium alloy coated steel. In some locations galvanised and severe environment colour coated steel may be available by arrangement. Colour coated steels are in accordance with AS/NZS2728 – Category 3 and, for the substrate, with AS1397. Aluminium-zinc-magnesium alloy coated AM100/AM125, zinc-aluminium alloy coated AZ150 and galvanised Z450 conform to AS1397.

Stramit has a comprehensive range of colours as standard. Ask your nearest Stramit location for colour availability.

**ADVERSE CONDITIONS**

Stramit® Corrugated roof and wall cladding will give excellent durability in almost all locations. It is however important to choose the correct coating for each application environment as shown in the table below. Durability recommendations do vary based on the application of the product, in roofing or walling installations. Please read the tables below carefully.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Grade</th>
<th>Zincalume®</th>
<th>Colourbond®</th>
<th>Galvanised</th>
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<tbody>
<tr>
<td>0.42mm bmt</td>
<td>550MPa</td>
<td>4.38</td>
<td>4.55</td>
<td>4.65</td>
</tr>
<tr>
<td>0.48mm bmt</td>
<td>550MPa</td>
<td>4.66</td>
<td>4.83</td>
<td>5.23</td>
</tr>
<tr>
<td>0.60mm bmt</td>
<td>550MPa</td>
<td>6.02</td>
<td>6.09</td>
<td>6.18</td>
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</table>

**COMPATIBILITY**

All building products need to be checked for compatibility with adjacent materials. These checks need to be for both direct contact between materials, and where water runs from one material to another. The following guidelines generally avoid material incompatibility:

- For zinc-aluminium-zinc-magnesium alloy coated steel, colour coated steel and galvanised steel roofs avoid copper, lead, green or treated timber, stainless steel, uncoated steel and mortar or concrete.
- In addition galvanised steel roofs should not receive drainage from aluminium or any inert materials, such as plastics, glass, glazed tiles, colour coated and zinc-aluminium-zinc-magnesium alloy. Contact Stramit for more detailed information.
- The profiles of G300 and G550 Corrugated cladding may vary and should not be used in overlapping configurations.

**ARCHITECTURAL SPECIFICATION**

This specification can be found on the Stramit web site and can be easily downloaded onto your documentation.

The roofing/walling shall be 0.42 (or 0.48) mm BMT Stramit® Corrugated cladding in continuous lengths with sinusoidal ribs 16mm high, spaced at 76.2mm centres in accordance with AS1445. Sheeting material shall be protected steel sheet to Australian Standard AS1397, with a minimum yield stress of 550MPa (Grade G550) and an AM100/AZ150 coating with an oven-baked paint film of selected colour, or a plain AM125/AZ125 coating.

The sheeting shall be fixed to the purlins/girts in accordance with the manufacturer’s recommendations. Suitable fixing screws in accordance with Australian Standard AS3566, Class 3, shall be used at every support with side lap fasteners installed at mid span if required. Sheets shall be laid in such a manner that the approved side lap faces away from the prevailing weather. A minimum of 50mm shall be provided for projection into gutters.

Flashings shall be supplied in compatible materials as specified; minimum cover of flashing shall be 150mm.

All sheeting shall be fixed in a workman-like manner, leaving the job clean and weathertight.

Repair minor blemishes with touch-up paint supplied by the roof manufacturer. All debris (nuts, screws, cuttings, filings etc.) shall be cleaned off daily. NOTE: 0.60mm G300 Corrugated has a 300MPa steel grade.
**FOOT TRAFFIC**

Foot traffic limits for Stramit® Corrugated cladding are shown for three alternate foot traffic categories. These are:

- **High Maintenance** – for applications with repeated maintenance, particularly where personnel may be unfamiliar with correct procedures for walking on metal roofs.
- **Normal** – based on traditional, with moderate maintenance foot traffic using factory designed foot paths.
- **Controlled** – spans that conform to AS1562.1 with 1.1kN load specified in AS/NZS1170.1 for R2 – Other Roofs. These require minimal careful foot traffic only on the designated foot path. Suggested for use where occasional aesthetic imperfections from foot traffic are acceptable.

### SPRING CURVING

Stramit® Corrugated cladding can be spring curved, concave and convex, including curved ridges, provided it is sealed at the apex, and within the recommended limits below.

### THERMAL EXPANSION

All metal roof sheeting is subject to thermal expansion and, where there is a temperature difference between the sheathing and the structure, this needs to be accommodated. The colour of the curving is affected by the amount of thermal expansion, and whether the sheet is flat or curved will affect its ability to resist without problems. Sheet lengths should be limited to those shown below.

### CYCLIC AREAS

Cyclical Data for Stramit® Corrugated cladding can be found in the Stramit Cyclonic Areas Guide. Information on the use of Stramit® Corrugated cladding in the Darwin area can be found in AS/NZS1170.1 for R2 – Other Roofs. These require minimal careful foot traffic only on the designated foot path. Suggested for use where occasional aesthetic imperfections from foot traffic are acceptable.

### PRESSURES

For more comprehensive information on spring curving Stramit® Corrugated cladding and other Stramit® roof profiles refer to the Stramit Spring Curving Guide.

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WATER CARRYING
Stramit® Corrugated cladding has limited water-carrying capacity. Roof slopes can be as low as 5° for many applications. Roof run lengths are the combined lengths of all roof run lengths along a single pan drainage path. This can include the roof length upstream of a roof penetration that concentrates flow into other pans. The table below gives slopes for 100 year return period rainfall intensity.

<table>
<thead>
<tr>
<th>Slope</th>
<th>Run Length (m)</th>
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<tr>
<td>5°</td>
<td>5.0</td>
<td>15.0</td>
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<tr>
<td>6.5°</td>
<td>5.0</td>
<td>19.0</td>
</tr>
<tr>
<td>8.0°</td>
<td>5.0</td>
<td>20.0</td>
</tr>
<tr>
<td>11°</td>
<td>5.0</td>
<td>23.0</td>
</tr>
<tr>
<td>13°</td>
<td>5.0</td>
<td>25.0</td>
</tr>
<tr>
<td>13.5°</td>
<td>5.0</td>
<td>25.0</td>
</tr>
</tbody>
</table>

ORDERING
Stramit® Corrugated cladding can be ordered directly through distributors, or supplied and fixed from a roofing contractor.

DELIVERY/UNLOADING
Delivery can normally be made within 48 hours, subject to the delivery location, quantity and material availability, or can be at a pre-arranged date and time. Please ensure that suitable arrangements have been made for truck unloading, as this is the responsibility of the receiver. Pack mass may be up to one tonne. When lifting Stramit® Corrugated cladding, care should be taken to ensure that the load is spread to prevent damage.

HANDLING/STORAGE
Stramit® Corrugated cladding should be handled with care at all times to preserve the product capabilities and quality of the finish. Packs should always be kept dry and stored above ground level while on site. If the sheets have become wet, they should be separated, wiped and placed in the open to promote drying.

INSTALLATION
Stramit® Corrugated cladding is readily installed with or without fibreglass insulation blanket. If practical, lay sheets in the opposite direction to prevailing weather. Installation of Stramit® Corrugated cladding is a straightforward procedure using the following fixing sequence:

1) Ensure all purlins are in line and correctly installed and that mesh and blanket (if specified) are in place.
2) Position and fix the first sheet ensuring the correct sheet overhangs (minimum 50mm). Ensure that screws are not overtightened.
3) Continue to fix subsequent sheets checking that sheet ends at the lower edge are exactly aligned. It is important that the underlap of one sheet does not protrude beyond the overlap of the next at the low end of the run. - if this is unavoidable, the underlap must be trimmed locally or water ‘dramback’ may occur.
4) Measure the overall cover width at top and bottom of the sheets from time to time to ensure
5) For roof spans exceeding 900mm and wall spans exceeding 1200mm, check the Sideslips at midspan.
6) Turn up the pans at the upper roof edge and install flashings. Fix flashings according to ASI5621.
7) Clean up the roof after each day’s work, removing all screws, cuttings, swarf etc, and leave roof clean and watertight.

INSULATION
Stramit® Corrugated cladding is suitable for use with insulating blanket. Glasswool blanket up to 50mm thick can be readily used. Increased thicknesses require longer fasteners and greater care in installation. For domestic applications Stramit recommends that insulation is always used.

WALKING
As with all roof products, we recommend extra caution be taken when walking on the roof. When walking on Stramit® Corrugated cladding roofing always wear flat rubber soled shoes and place feet only on the ribs, taking care to avoid the last rib or two near edges of the metal roof area.

GOOD PRACTICE
Stramit recommends that good trade practice be followed when using this product, as found in Australian Standards Handbook HB39.

SHEET HANDLING
Cut resistant or leather gloves should be worn when handling product. Foot protection should be worn when handling and transporting product.

CUTTING
Stramit® Corrugated cladding can be easily cut, where required, using a power saw with a steel cutting blade or a power nibbler and, for localised cutting, tin snips. Avoid the use of abrasive discs as these can cause burred edges and coating damage. Please dispose of any off-cuts carefully.

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ADDITIONAL INFORMATION
MAINTENANCE
Exterior surfaces of metal products unwashed by rain can benefit from occasional washing to remove build-up of corrosive salts. Walls beneath eaves or rain can benefit from occasional washing to remove build-up of corrosive salts. Walls beneath eaves or

FURTHER INFORMATION
As well as our standard range of Technical Manuals, Installation Leaflets, Case Studies and other promotional literature Stramit has a series of Guides to aid design.

REFERENCES
In preparing this document reference has been made to:

• Standards Australia Handbook – HB39
• (Installation code for metal roof and wall cladding)
• BlueScope Steel – Technical Bulletin TB-4
• (Maintenance of Colorbond prepped steel roofing)
• BlueScope Steel – Technical Bulletin TB-1
• (Steel roofing and walling products – selection guide)
## CONTACT US

Visit [stramit.com.au](http://stramit.com.au) or contact us using the details below.

<table>
<thead>
<tr>
<th>REGION</th>
<th>LOCATION</th>
<th>CONTACT DETAILS</th>
<th>TECHNICAL ENQUIRIES</th>
</tr>
</thead>
<tbody>
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<td>ORANGE 51 Leewood Dr, Orange NSW 2800</td>
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<td>MARYBOROUGH 10 Activity St, Maryborough QLD 4650</td>
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