**FEATURES/BENEFITS**

- High 50mm ribs – excellent water-carrying capacity at low roof pitch and superior profile rigidity.
- Simple rib shape – enables reliable screw fixing, and easy to trim and notch flashings.
- Wide 660mm cover – enabling fast handling and laying, and addit cost economy.
- Screw fixed – allows fast and flexible high-wind installation techniques such as ‘tack and screw-off’.
- Range of materials – choice of materials and finishes for enhanced durability options.
- Low 1° pitch – building economies due to low wall heights and structure reduction.
- Fully tested – in-house and independent testing for reliable design data and peace-of-mind.
- Nesting profile – flat packs for economical transport and site crane handling.

**APPLICATIONS**

The drainage capacity, strength, wide cover, light weight and weather resistance of CapacityPLUS™ 660 cladding make it perfect for large commercial roofing and walling applications. Its excellent strength and ease of assembly allow for long, economical spans. The large water-carrying capacity and weather-tightness permit very low roof pitches, leading to economies in the building structure.

CapacityPLUS™ 660 cladding is only intended for use in commercial/industrial/residential roof and wall cladding applications. Do not use for any other purpose.

**MATERIALS**

CapacityPLUS™ 660 cladding is manufactured from high yield strength G550 colour coated steel, aluminium-zinc-magnesium or zinc-aluminium coated steel. In some locations galvanised and severe environment or stainless 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 or ZM275, zinc aluminium-alloy coated AZ150 and galvanised Z450 conform to AS1397. Stramit has a comprehensive range of colours as standard. Ask at your nearest Stramit location for colour availability.

**COMPATIBILITY**

All building products need to be checked for compatibility with adjacent materials, whether they be part of the current project or pre-existing or planned building elements. These checks need to be both direct contact between materials, and where water runs from one material to another. The following guidelines generally avoid material incompatibility:

- For ZINCALUME®, COLORBOND®, MagnaFlow® and galvanised roofs avoid copper, lead, green or treated timber, stainless steel and mortar or concrete.
- In addition galvanised roofs should not receive drainage from aluminium, copper or any inert materials, such as plastics, glass, glazed tiles, MagnaFlow®, COLORBOND® and ZINCALUME® Contact Stramit for more detailed information.

**ADVERSE CONDITIONS**

CapacityPLUS™ 660 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.

**ARCHITECTURAL SPECIFICATION**

This specification may be used to ensure that required performance and functional needs are met:

- The roof/walling shall be CapacityPLUS™ 660 cladding in continuous lengths with trapezoidal ribs approximately 50mm high, spaced at 220mm centres.
- The roofing/walling shall be CapacityPLUS™ 660 cladding installed as per AS 1397, with a minimum yield stress of 550MPa (Grade G550) and an AM100/AZ150 or ZM275 coating with an oven-baked paint film of selected colour or a plain AM125/AZ150 coating.
- For ZINCALUME®, COLORBOND®, MagnaFlow® and ZINCALUME® roofing/walling shall be fixed with screws spaced at a maximum of 500mm on centres.

**APPLICATIONS**

- Roof sheeting – site exposure condition
- Wall cladding – very severe exposure from marine environment

**ADVERSE CONDITIONS**

The approximate site exposure conditions in the table above are defined below.

- Zinc-Aluminium (AZ150)
- COLORBOND®
- COLORBOND® METALLIC
- COLORBOND® ULTRA
- MAGNAFLOW®
- COLORBOND® STAINLESS

**SELECTION AND SPECIFICATION**

- Nesting profile – flat packs for economical transport and site crane handling.

**IMPORTANT NOTICE AND DISCLAIMER**

- While every effort has been made to ensure the accuracy and completeness of the information provided in this brochure, Stramit disclaims all liability (including liability for negligence) for all loss and damage resulting from the use of the information provided in this brochure.

**The information contained within this brochure is for general use and information only. Before applying to a particular situation, please refer to independent organisations.**

**COMPATIBILITY**

- All building products need to be checked for compatibility with adjacent materials, whether they be part of the current project or pre-existing or planned building elements. These checks need to be both direct contact between materials, and where water runs from one material to another. The following guidelines generally avoid material incompatibility:

  - For ZINCALUME®, COLORBOND®, MagnaFlow® and galvanised roofs avoid copper, lead, green or treated timber, stainless steel and mortar or concrete.
  - In addition galvanised roofs should not receive drainage from aluminium, copper or any inert materials, such as plastics, glass, glazed tiles, MagnaFlow®, COLORBOND® and ZINCALUME® Contact Stramit for more detailed information.

**TESTING**

Stramit has in-house, purpose built, testing equipment used to design, develop and improve products for the Australian market. In addition many Stramit® products are tested or witnessed by independent organisations.

This ongoing research and development activity ensures that Stramit remains at the forefront of innovation, design and consumer information.

**ARCHITECTURAL SPECIFICATION**

This specification may be used to ensure that required performance and functional needs are met:

- The roof/walling shall be CapacityPLUS™ 660 cladding in continuous lengths with trapezoidal ribs approximately 50mm high, spaced at 220mm centres.
- The roofing/walling shall be CapacityPLUS™ 660 cladding installed as per AS 1397, with a minimum yield stress of 550MPa (Grade G550) and an AM100/AZ150 or ZM275 coating with an oven-baked paint film of selected colour or a plain AM125/AZ150 coating.
- For ZINCALUME®, COLORBOND®, MagnaFlow® and ZINCALUME® roofing/walling shall be fixed with screws spaced at a maximum of 500mm on centres.
The spans shown below take account of ‘normal’ foot traffic and wind resistance including local pressure zone effects. Pressures are based on AS4055 or AS/NZS1170.2. Where the two standards differ, the worst case has been taken for each classification. Data should only be used for buildings 7m or less in height, 1000m or less in area, where both length and width exceed the building height and site is unaffected by land topography.

**CapacityPLUS™ 660 DEEP ROOF CLADDING - MAXIMUM ROOF SPANT CHART (mm)**

<table>
<thead>
<tr>
<th>Span (m)</th>
<th>Pressure (kPa)</th>
<th>Serviceability</th>
<th>Double Support</th>
<th>Equal Support</th>
<th>Internal (end) span</th>
<th>Combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.42</td>
<td>0.74</td>
<td>2000</td>
<td>2800</td>
<td>3400</td>
<td>3900</td>
<td>2000</td>
</tr>
<tr>
<td>0.48</td>
<td>0.74</td>
<td>2000</td>
<td>2800</td>
<td>3400</td>
<td>3900</td>
<td>2000</td>
</tr>
<tr>
<td>1.07</td>
<td>1.07</td>
<td>2050</td>
<td>2850</td>
<td>3540</td>
<td>4100</td>
<td>2050</td>
</tr>
<tr>
<td>1.32</td>
<td>1.32</td>
<td>2200</td>
<td>2900</td>
<td>3610</td>
<td>4200</td>
<td>2200</td>
</tr>
<tr>
<td>1.53</td>
<td>1.53</td>
<td>2200</td>
<td>2900</td>
<td>3610</td>
<td>4200</td>
<td>2200</td>
</tr>
<tr>
<td>1.92</td>
<td>1.92</td>
<td>2300</td>
<td>3000</td>
<td>3750</td>
<td>4350</td>
<td>2300</td>
</tr>
<tr>
<td>2.37</td>
<td>2.37</td>
<td>2300</td>
<td>3000</td>
<td>3750</td>
<td>4350</td>
<td>2300</td>
</tr>
<tr>
<td>3.25</td>
<td>3.25</td>
<td>2500</td>
<td>3200</td>
<td>4000</td>
<td>4800</td>
<td>2500</td>
</tr>
<tr>
<td>3.90</td>
<td>3.90</td>
<td>2500</td>
<td>3200</td>
<td>4000</td>
<td>4800</td>
<td>2500</td>
</tr>
</tbody>
</table>

*Where roof pitch is less than 10 degrees, use spans given in red for roof corners. Internal spans must have both ends 20% shorter. TC - Terrain category. FS, PS, NS - Full, partial and no shielding. Internal pressure coefficient ≤0.9 ±0.3.*

Values are only valid for use with steel members of 1.5mm or thicker. Where thinner supports are used, fastener capacity must be checked.

**Foot Traffic**

Foot traffic limits for CapacityPLUS™ 660 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 expectations, with moderate maintenance foot traffic using designated 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 only where occasional aesthetic imperfections from foot traffic are acceptable.

**Water Carrying**

CapacityPLUS™ 660 cladding has excellent water-carrying capacity enabling roof slopes to be as low as 1° for many applications. Roof run lengths are the combined lengths of all roof elements contributing to 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. Values are given for normal roof drainage applications, where the minimum slopes are calculated as for other Stramit® roofing profiles.

**Sizing**

For more information on roof drainage performance of other Stramit® roofing profiles refer to Stramit’s Foot Traffic Guide.

**THERMAL EXPANSION**

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

**CYCLONIC AREAS**

Cyclonic for CapacityPLUS™ roofing can be found in the Stramit Cyclonic Areas Guide.
**PROCUREMENT**

**PRICES**

Prices on CapacityPLUS™ 660 cladding and its accessories can be obtained from your nearest Stramit location or distributor of Stramit® products. As Stramit does not provide an installation service, ask your tradesperson for a supply and fix price. Contact your nearest Stramit location for the names of tradespersons in your area.

**RELATED PRODUCTS**

- Ridge Capping – standard or custom dimensions
- Flashings – a range of custom flashings
- Filler Strips – top and bottom; for eaves, ridge and joint sealing

**LENGTH**

CapacityPLUS™ 660 cladding is supplied cut-to-length. When designing or transporting long products ensure that the length is within the limit of the local Transport Authority regulations. The manufacturing tolerance on the length of product supplied is ±0.15mm.

**ORDERING**

CapacityPLUS™ 660 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 CapacityPLUS™ 660 cladding, care should be taken to ensure that the load is spread to prevent damage.

**HANDLING/STORAGE**

CapacityPLUS™ 660 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.

**SITE INDUCTION**

Consideration should be given to roof and wall handling and installation issues as part of site induction safety procedures. Specific consideration should be given to pack handling, avoidance of cuts, trips, slips and falls, long sheet handling particularly in windy conditions, sheet cutting procedures and surface temperature on sunny days.

**FASTENERS**

All fastening screws must conform to AS3566 – Class 3 or better. They are to be hexagon headed and, for roofs, must be used with sealing washers. For connecting to purlins or top hats in non-cyclic regions use:

- For steel (3.5mm or greater) – 12 x 80mm self-drilling and threading screws for crest fixing
- 10 x 16mm self-drilling and threading screws for pan fixing to walls

- For timber (F1 or better) – 12 x 95mm type 17 screws for crest fixing
- 10 x 25mm type 17 screws for pan fixing to walls

- Side Laps – 10 x 16 self drilling and threading screws, or – 3.2mm diameter sealed aluminium pop rivets

Note: Lengths shown are suitable for use with insulation blanket up to 50mm. For 75mm or 100mm insulation blanket increase screw length by at least 10mm.

**INSULATION**

CapacityPLUS™ 660 cladding is suitable as specified for use with insulating blanket up to 50mm. Increased thicknesses require longer fasteners and greater care in installation.

**INSTALLATION**

CapacityPLUS™ 660 cladding is readily installed with or without fibreglass insulation blanket. If practical lay sheets in the opposite direction to prevailing weather.

Installation of CapacityPLUS™ 660 cladding is a straightforward procedure using the following fixing sequence:

1) Ensure all purfin 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 eave overhang 50mm). Ensure that screws are not over-tightened.
3) Continue to fix subsequent sheets checking that sheet ends at the lower edge are exactly aligned.

**REFERENCE**

Wiring diagrams and other technical information are available from the nearest Stramit location or distributor of Stramit® products.

**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 awnings are such a situation.

**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.

These include:

- Roof & Wall Flashing Guide
- Roof Slope Guide
- Foot Traffic Guide
- Concealed Fixed Decking
- Bullnosing, Curving and Crimping
- Acoustic Panels
- Cyclonic Areas
- Spring Curving Guide

Please contact your nearest Stramit location for any of these guides or other literature.

**OTHER PRODUCTS**

Stramit offers a wide range of building products, including:

- Purlins and girts
- Formwork deckings
- Roof and wall sheeting
- Lightweight structural sections
- Truss components
- Gutters and downpipes
- Fascias
- Custom flashings
- Insulating products
- Fasteners

**REFERENCES**

In preparing this document reference has been made to:

- Standards Australia Handbook - HB839
- BlueScope Steel - Technical Bulletin TB-4
- BlueScope Steel - Technical Bulletin TB-1
- Australian Standards Handbook - HB39

**CUTTING**

CapacityPLUS™ 660 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 this can cause burred edges and coating damage. Please dispose of any off-cuts carefully.
## CONTACT US

Visit stramit.com.au or contact us using the details below.

<table>
<thead>
<tr>
<th>REGION &amp; ACT</th>
<th>LOCATION</th>
<th>CONTACT DETAILS</th>
<th>TECHNICAL ENQUIRIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSW &amp; ACT</td>
<td>SYDNEY 33-83 Quarry Rd, Erskine Park NSW 2759</td>
<td>Ph 02 9834 0909 Fax 02 9834 0988</td>
<td>Ph 02 9834 0964</td>
</tr>
<tr>
<td></td>
<td>CANBERRA 4 Bass St, Queanbeyan NSW 2620</td>
<td>Ph 02 6298 2500 Fax 02 6298 2533</td>
<td></td>
</tr>
<tr>
<td></td>
<td>COFFS HARBOUR 6 Mansbridge Dr, Coffs Harbour NSW 2450</td>
<td>Ph 02 6656 3800 Fax 02 6656 3808</td>
<td>Ph 02 9834 0964</td>
</tr>
<tr>
<td></td>
<td>NEWCASTLE 17 Nelson Rd, Cardiff NSW 2285</td>
<td>Ph 02 4041 3400 Fax 02 4041 3423</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ORANGE 51 Leewood Dr, Orange NSW 2800</td>
<td>Ph 02 6360 9200 Fax 02 6360 9211</td>
<td></td>
</tr>
</tbody>
</table>

| VIC          | MELBOURNE 3/1464 Ferntree Gully Rd, Knoxfield VIC 3180 | Ph 03 9237 6300 Fax 03 9237 6399 | Ph 03 9237 6353     |
|              | ALBURY 18 Ariel Dr, Albury NSW 2640 | Ph 02 6092 3700 Fax 02 6092 3766 | Ph 03 9237 6353     |
|              | BENDIGO Lot 7-9 Ramsay Court, Kangaroo Flat VIC 3555 | Ph 03 5448 6400 Fax 03 5447 9677 | Ph 03 9237 6353     |

| TAS          | HOBART 57 Crooked Billett Dr, Brighton TAS 7030 | Ph 03 6262 8788 Fax 03 6262 8712 | Ph 03 9237 6353     |

| SA           | ADELAIDE 11 Stock Rd, Cavan SA 5094 | Ph 08 8219 2000 Fax 08 8219 2021 | Ph 03 9237 6353     |

| SOUTH QLD    | BRISBANE 57-71 Platinum St, Crestmead QLD 4132 | Ph 07 3803 9999 Fax 07 3803 1499 | Ph 07 3803 9869     |
|              | MARYBOROUGH 10 Activity St, Maryborough QLD 4650 | Ph 07 4123 9500 Fax 07 4123 9508 | Ph 07 3803 9869     |
|              | ROCKHAMPTON 41 Johnson St, Parkhurst QLD 4702 | Ph 07 4921 5600 Fax 07 4921 5608 | Ph 07 3803 9869     |
|              | CAIRNS 53 Vickers St, Edmonton QLD 4869 | Ph 07 4034 6555 Fax 07 4034 6511 | Ph 07 3803 9869     |
|              | TOWNSVILLE 402-408 Bayswater Rd, Garbutt QLD 4814 | Ph 07 4412 3900 Fax 07 4412 3909 | Ph 07 3803 9869     |

| NORTH QLD    | MACKAY 6 Brickworks Court, Glenella QLD 4740 | Ph 07 4965 4000 Fax 07 4965 4012 | Ph 07 3803 9869     |
|              | DARWIN 55 Albatross St, Winnellie NT 0820 | Ph 08 7922 4600 Fax 08 7922 4608 | Ph 07 3803 9869     |
|              | PERTH 605-615 Bickley Rd, Maddington WA 6109 | Ph 08 9493 8800 Fax 08 9493 8899 | Ph 07 3803 9869     |