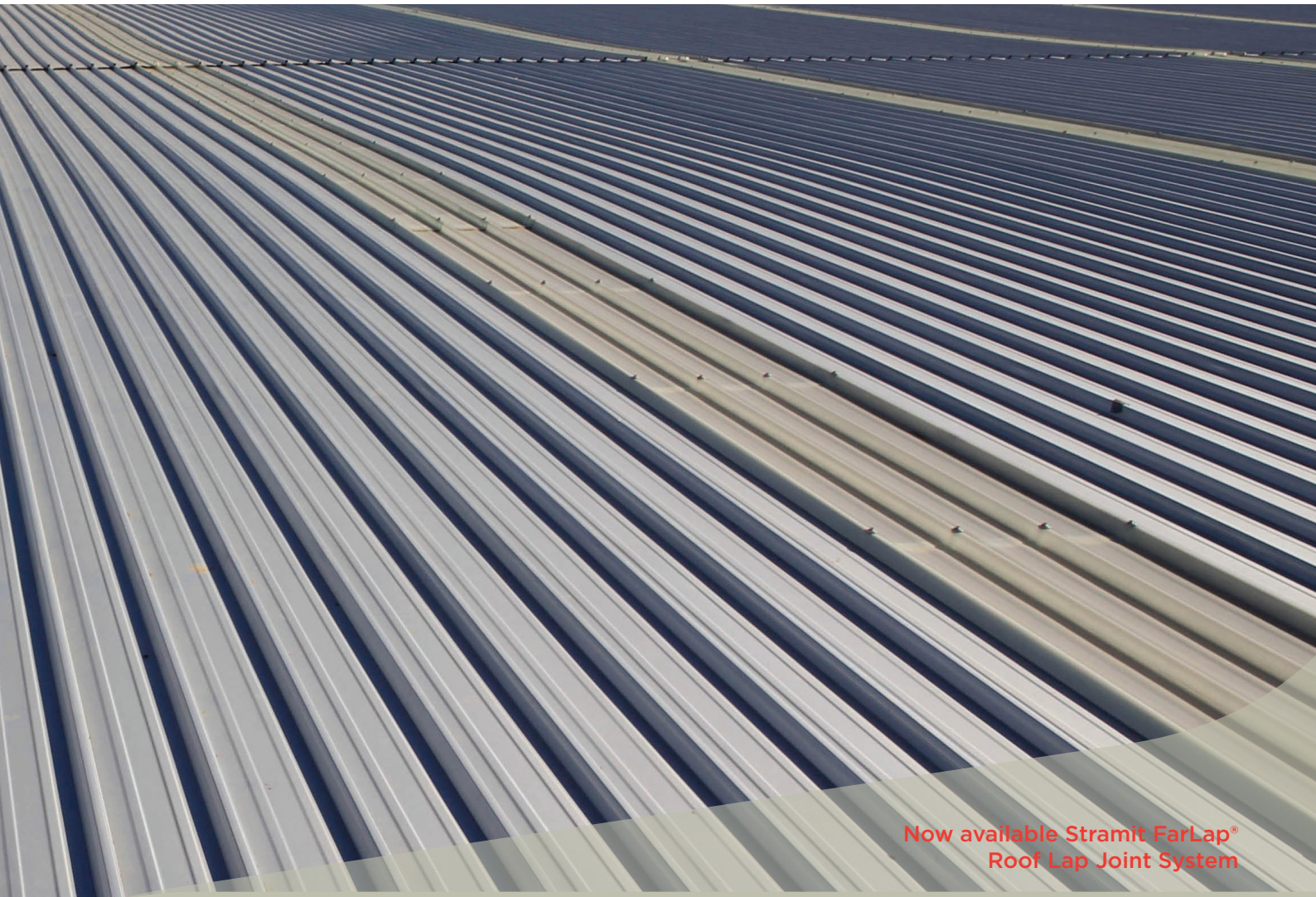
Stramit



Now available Stramit FarLap® Roof Lap Joint System

# SPEED DECK ULTRA® CONCEALED FIXED DECKING

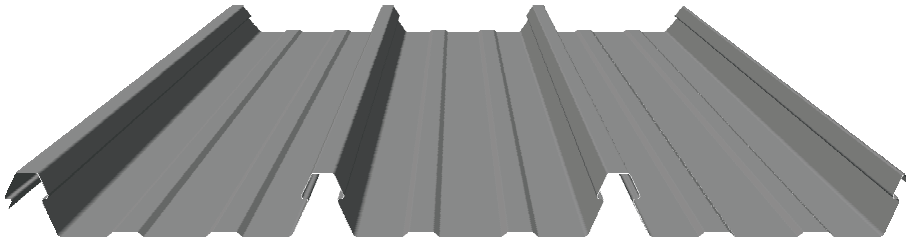
## Technical Manual

FM APPROVED

AUSTRALIAN MADE

Part of Fletcher Building

# SELECTION AND SPECIFICATION



FM Global approved when installed in accordance with Approval Standard FM 4471 (RoofNav Specification)

## FEATURES/BENEFITS

- Wide Cover – fewer sheets and quicker installation.
- Deep Ribs – stronger and stiffer with better water carrying capacity; roof slopes as low as 1°.
- Full Width Clips – to locate ribs and compress insulation.
- Four Fixing Points Per Clip – with centralised fastening for unsurpassed strength.
- Hexagon Head Screws – bigger, stronger and easier to install, with less wastage.
- Outstanding Wind Load Resistance – improved security with lower purlin costs.
- Spring Curving – data for arched and curved roofs.
- Automatic Bird Proofing – built in accessory with no need for extra components.
- Compatible lap joint system
  – allows in-plane long run roofs
  – provides solution for limited access sites
- Non-combustible - meets NCC 2022 requirements for non-combustible material
- Proudly Australian Made.

## AUSTRALIAN DESIGN AWARD

***Speed Deck Ultra***®
decking, winner of a 1995 Australian Design Award for “using the properties of high tensile steel to their best advantage through good design practices”.

## NOISE

It is the designer’s responsibility to identify potential cause(s) of noise and then incorporate within the roof design suitable details to minimise the potential or severity of noise.

Noise in metal roofing can result from many factors or a mix of factors. Please be aware that when using Stramit Speed Deck Ultra® in applications where the clips are spaced less than 1500mm apart, it is more likely that thermally-induced noise may occur. Thermally-induced noise is caused by slipping at fasteners and connections where the roof sheeting expands relative to its supports or clips. The slipping is controlled by the friction between the sheeting and its supports or clips.

When this friction does not allow movement of the sheet gradually and instead it occurs in sudden spurts, sounds are produced — the higher the friction, the louder the sound. There will be no damage to the sheeting or fasteners. The sounds can vary between crackling, clicking or in extreme cases a louder sudden bang. The occurrence and continuity of these can vary. Other factors that could result in metal roofing noise are rain, wind, weather extremes such as hail, thunder; structural movements resulting from lack of rigidity, ground movement, structural settlement, shrinkage, ground movements or excavations, number of additions affixed to the roof (i.e. solar panels) etc. The type of noise, frequency, patterns, volume, duration and regularity can be quite variable.

For Stramit Speed Deck Ultra®, noise can be reduced (but not necessarily removed altogether) by a range of methods. As a guide some of methods may include:

- Using light coloured sheeting instead of darker colours which retain more heat.
- Steel supports are better than timber supports.
- Adding insulation in the roof space to reduce temperature differences. Where the blanket is tight against the sheeting underside it will have a better effect on noise reduction. Where ceiling insulation is provided in tropical areas, having the silver foil facing upwards.
- Venting the roof area.
- Adding an expansion joint to reduce movement. This is especially important where long sheets are used. Details around valleys must be carefully considered as heat could be retained.
- Including a material between the sheeting and supports to allow easier movement, for example PVC tape or foil laminate strips.
- Ensuring the supports are spaced further apart, for Speed Deck Ultra a spacing of 1500mm minimum would reduce the level of noise. The supports and underlying structure must be checked for capacity to ensure additional loading is accounted for.
- Structure of the roof should be well braced and rigid enough to ensure movement due to wind effects, thermal actions and vibrations are minimised.

IMPORTANT NOTICE AND DISCLAIMER

The information contained within this brochure is for general use and information only. Before application in a particular situation, Stramit recommends that you obtain appropriate independent qualified expert advice confirming the suitability of product(s) and information in question for the application proposed. While Stramit accepts its legal obligations, be aware however that to the extent permitted by law, Stramit excludes all liability (including liability for negligence) for all loss and damage resulting from the use of the information provided in this brochure.

## APPLICATIONS

The visual appeal, strength, wide cover, light weight and weather resistance of Speed Deck Ultra® decking and FarLap® roof lap joint system make it perfect for all commercial and industrial roofing 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.

Stramit® Speed Deck Ultra decking is only intended for use in roof cladding applications. Do not use for any other purpose.

## MATERIALS

***Speed Deck Ultra***® decking is manufactured from hi-tensile G550 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/NZS 2728:2013 - Type 4 and, for the substrate, with AS 1397:2021. Aluminium-zinc-magnesium alloy coated AM100/AM125, zinc-aluminium alloy coated AZ150 and galvanised Z450 conform to AS 1397:2021.

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

## OVERLAPPING ROOF SHEETS

For long run roofs that exceed the maximum recommended sheet lengths, and for awkward sites where truck or crane access is limited, the FarLap® roof lap joint system is available. This enables overlapping sheets to be simply and reliably attached without the need for a traditional step joint. The roof support structure can be designed and fixed in a single plane. Refer to Stramit FarLap® Roof Lap Joint System Product Technical Supplement for full details of the product.

## ADVERSE CONDITIONS

Speed Deck Ultra® decking will give excellent durability in almost all locations. With all of its fastenings protected beneath the decking, Speed Deck Ultra® decking can be expected to outlast through-fixed roofing. It is however important to choose the correct coating for each application environment. The table below shows the suitability of coating types for different exposure conditions.

| Suitability of coating type for site exposure conditions | Roof sheeting Distance from | | Wall cladding Distance from | |
|---|---|---|---|---|
| | breaking surf/ exposed marine | calm marine | breaking surf/ exposed marine | calm marine |
| Zinc-Aluminium (AZ150) | >200m | >100m | >1000m | >1000m |
| ZINCALUME® (AM125) | >200m | >100m | >1000m* | >1000m* |
| COLORBOND® Coolmax® | >200m* | >100m* | | |
| COLORBOND® Classic/Matt | >200m | >0m | >800m | >200m |
| COLORBOND® Metallic | >200m* | >100m* | >1000m* | >1000m* |
| COLORBOND® Ultra | >100m | >0m | >500m | >100m |
| SUPERDURA® Stainless | >0m | >0m | >0m | >0m |

* For commercial applications

The suitability and exposure tables above are current at the time of publication and are guidelines only; conditions will vary from site to site. Please check the Bluescope Technical Bulletins at www.bluescopesteel.com.au for the latest information and guidance on selection, maintenance and durability. If uncertain about the appropriate coating for a particular application, or if the product is to be used in environments affected by industrial emissions, fossil fuel combustion, animal farming, or has unwashed areas, please contact your nearest Stramit office for advice.

## 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/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/aluminium-zinc-magnesium alloy coated steel. Contact Stramit for more detailed information.

Refer to AS 1562.1:2018 or HB39 for more detail.

## 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 can be found on the Stramit website and can be easily downloaded onto your documention.

The roofing/walling shall be 0.42 (or 0.48) mm BMT Stramit Speed Deck Ultra® decking in continuous lengths with trapezoidal ribs 43mm high, spaced at 233mm centres. Sheeting material shall be protected steel sheet to Australian Standard AS 1397, 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/AZ150 coating. The sheeting shall be fixed to the purlins/girts in accordance with the manufacturer's recommendations using patented full width fixing clips supplied.

Clips shall be fastened to purlins/girts with screws supplied in accordance with Australian Standard AS 3566, suitable for minimum corrosivity category 3, and attached under every rib. 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 eave gutters. Flashings shall be provided in compatible materials as specified; minimum cover of flashing shall be 150mm.

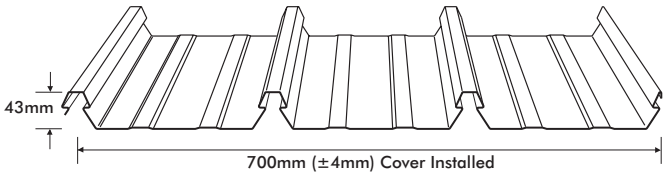
All sheeting shall be fixed in a workman-like manner, leaving the job clean and weathertight. All debris (nuts, screws, cuttings, filings etc.) shall be cleaned off daily. Where the Stramit FarLap® roof lap joint system is to be incorporated add the following to the specification above:

All roof lap joints shall be constructed using the Stramit FarLap® roof lap joint system and Stramit SkyLap® joint system for translucent sheeting, detailed and fixed strictly in accordance with the manufacturers written installation instructions.

# DESIGN

## SPANS

The spans shown below take account of 'normal' foot traffic and wind resistance including local pressure zone effects. Pressures are based on AS 4055:2021 or AS/NZS 1170.2:2021. 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 average height, 16m max width, where both length and width exceed the building height and site unaffected by land topography. Maximum roof pitch 35°.




**SPEED DECK ULTRA® DECKING - SHEETING MASS (kg/m² of roof area)**

| | ZINCALUME® | COLORBOND® | GALVANISED |
|---|---|---|---|
| 0.42mm BMT | 4.66 | 4.74 | 5.07 |
| 0.48mm BMT | 5.29 | 5.37 | 5.70 |

**SPEED DECK ULTRA® DECKING - RECOMMENDED SPAN CHART (mm)**

| | roof edges and internal areas | | | | | roof corners with pitch <10° or ridge/edge corner pitch ≥10° | | | | | overhangs | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| bmt (mm) | pressure (kPa) service-ability | strength | double spans | equal spans | internal (end) span combination | pressure (kPa) service-ability | strength | double spans | equal spans | internal (end) span combination | free edge | stiffened edge |
| **N1r or Region A (TC3, FS)** | | | | | | **N1r or Region A (TC3, FS)** | | | | | | |
| 0.42 | 0.74 | 1.25 | 1700 | 1700 | 2100(1750) | *1.07* | *1.81* | *1700* | *1700* | *2100(1750)* | 150 | 450 |
| 0.48 | 0.74 | 1.25 | 2300 | 2300 | 2700(2250) | *1.07* | *1.81* | *2300* | *2300* | *2700(2250)* | 200 | 500 |
| **N2r or Region B1 (TC3, FS) or Region A (TC2.5,PS)** | | | | | | **N2r or Region B1 (TC3, FS) or Region A (TC2.5,PS)** | | | | | | |
| 0.42 | 1.06 | 1.73 | 1700* | 1700* | 2100(1750)* | *1.54* | *2.51* | *1700* | *1700* | *2100(1750)* | 150 | 450 |
| 0.48 | 1.06 | 1.73 | 2300* | 2300* | 2700(2250)* | *1.54* | *2.51* | *2050* | *2000* | *2400(2000)* | 200 | 500 |
| **N3r or Region A (TC2, NS) or Region B1 (TC2.5, PS) or Region B2 (not WA) (TC3, FS)** | | | | | | **N3r or Region A (TC2, NS) or Region B1 (TC2.5, PS) or Region B2 (not WA) (TC3, FS)** | | | | | | |
| 0.42 | 1.34 | 2.70 | 1700* | 1700* | 2100(1750)* | *1.94* | *3.92* | *1350* | *1600* | *1800(1500)* | 150 | 450 |
| 0.48 | 1.34 | 2.70 | 2250* | 2150* | 2550(2100)* | *1.94* | *3.92* | *1600* | *1750* | *2000(1650)* | 200 | 500 |

* Where roof pitch < 10 degrees, use spans given in red italics for roof corners. Where roof pitch ≥10 degrees, use spans in red italics for ridge/edge corners. Internal spans must have both end spans 20% shorter. TC - Terrain category. FS, PS, NS - Full, partial and no shielding. Internal pressure coefficient +0.2/-0.3, external pressure coefficient -0.9. Values are only valid for use with steel members of 1.5mm or thicker.
Where thinner supports are used, fastener capacity must be checked.
For more specific applications Speed Deck Ultra® decking must be designed to the pressure and foot traffic limitations below.
Spans may exceed those shown in this table, provided the wind pressure and foot traffic limits are not exceeded.

## PRESSURES

**SPEED DECK ULTRA® DECKING - SERVICEABILITY LIMIT STATE CAPACITY**

| thickness bmt (mm) | fasteners per sheet at each support | span type | *pressure (kPa) at the spans (mm) shown* 600 | 900 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.42 | 1 clip and 3 screws | internal | 2.81 | 2.81 | 2.53 | 2.24 | 1.96 | 1.68 | 1.39 | 1.11 | 0.83 |
| | | equal | 2.86 | 2.86 | 2.47 | 2.08 | 1.68 | 1.29 | 0.90 | 0.51 | |
| | | double | 2.33 | 2.33 | 2.08 | 1.84 | 1.60 | 1.36 | 1.12 | 0.87 | 0.63 |
| 0.48 | 1 clip and 3 screws | internal | 3.12 | 3.12 | 2.80 | 2.49 | 2.18 | 1.86 | 1.55 | 1.23 | 0.92 |
| | | equal | 3.17 | 3.17 | 2.74 | 2.30 | 1.87 | 1.44 | 1.00 | 0.57 | |
| | | double | 2.58 | 2.58 | 2.31 | 2.04 | 1.78 | 1.51 | 1.24 | 0.97 | 0.70 |

**SPEED DECK ULTRA® DECKING - STRENGTH LIMIT STATE CAPACITY (NON-CYCLONIC)**

| thickness bmt (mm) | fasteners per sheet at each support | span type | *pressure (kPa) at the spans (mm) shown* 600 | 900 | 1200 | 1500 | 1800 | 2100 | 2400 | 2700 | 3000 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.42 | 1 clip and 3 screws | internal | 7.91 | 7.91 | 6.16 | 5.07 | 4.32 | 3.78 | 3.36 | 3.03 | 2.77 |
| | | equal | 7.86 | 7.86 | 5.82 | 4.62 | 3.82 | 3.25 | 2.83 | 2.50 | 2.24 |
| | | double | 8.00 | 8.00 | 5.71 | 4.40 | 3.55 | 2.97 | 2.54 | 2.21 | 1.95 |
| 0.48 | 1 clip and 3 screws | internal | 8.55 | 8.55 | 6.65 | 5.47 | 4.67 | 4.08 | 3.63 | 3.27 | 2.99 |
| | | equal | 8.49 | 8.49 | 6.29 | 4.98 | 4.12 | 3.51 | 3.05 | 2.70 | 2.42 |
| | | double | 8.64 | 8.64 | 6.17 | 4.75 | 3.84 | 3.20 | 2.74 | 2.39 | 2.11 |

Tables are based on testing to AS 1562.1, AS 4040 parts 0 and 2 and NCC 2022. Internal spans must have both end spans 20% shorter.
Values only valid for use with steel support members of 1.5mm or thicker. Where thinner supports are used, fastener capacity must be checked.
Refer to Stramit® Cyclonic Areas Roof and Wall Cladding Brochure for information on use in Cyclonic Regions.

## FOOT TRAFFIC

Foot traffic limits for Speed Deck Ultra® decking are shown for three alternate foot traffic categories. These are:

- Heavy – 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 AS 1562.1:2018 with 1.1kN load specified in AS/NZS 1170.1:2002 for R2 – Other Roofs. These require minimal careful foot traffic only on the designated footpath. Suggested for use only where occasional aesthetic imperfections from foot traffic are acceptable.

**SPEED DECK ULTRA® DECKING - FOOT TRAFFIC LIMITED SPANS (mm)**

| thickness bmt | span type | foot traffic limits | | |
|---|---|---|---|---|
| | | heavy | normal | controlled |
| 0.42 | internal | 1100 | 2100 | 2700 |
| | equal | 700 | 1700 | 2250 |
| | double | 700 | 1700 | 2250 |
| 0.48 | internal | 1400 | 2700 | 3600 |
| | equal | 900 | 2300 | 2700 |
| | double | 900 | 2300 | 2700 |

Tables are based on tests to AS 1562.1:2018 and AS 4040 parts 0 and 1.

For more information on foot traffic performance of Speed Deck Ultra® decking and other Stramit® roofing profiles refer to Stramit's Foot Traffic Guide.

## SPRING CURVING

Speed Deck Ultra® decking can be spring curved, concave and convex, including curved ridges, provided it is within the recommended limits below:

**SPEED DECK ULTRA® DECKING - SPRING-CURVED RADII LIMITS (m)**

| restricted minimum* | | unrestricted minimum | unrestricted maximum |
|---|---|---|---|
| 0.42 bmt | 0.48 bmt | | |
| 90* | 70* | 100 | 225 |

*At these radii a maximum support spacing of 1200mm applies, and limit state pressure capacities are reduced by 14% for serviceability and 7% for strength.

For more comprehensive information on spring curving Speed Deck® Ultra decking and other Stramit roofing profiles refer to the Stramit Spring Curving Guide.

## DESIGNING FOR SNOW

Concealed fixed decking such as Speed Deck Ultra® decking is the preferred roofing material in alpine areas. This, and many other design suggestions, can be found in Australian Standards HB 106 – 'Guidelines for Design of Structures in Snow Areas'. Particular attention is drawn to maintaining an adequate roof slope for snow shedding, and screw fixing of deck pans beneath the ridge capping.

Downward load capacities for Speed Deck Ultra® decking have not been tabulated, but can be assumed to equal the outward capacities shown.

## 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. As noted on page 2, a potential consequence of thermal expansion is noise. 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.

Speed Deck Ultra decking has resistance to the problems associated with thermal expansion. Nevertheless sheet lengths should be limited to those shown below.

**SPEED DECK ULTRA® DECKING - MAXIMUM SHEET LENGTH* (m)**

| roof colour | light | dark |
|---|---|---|
| flat | 42 | 30 |
| spring-curved | 30 | 20 |

* Transport restrictions can apply - check with your local Stramit office.

Longer roof run lengths on a single plane support structure can be readily constructed using the Stramit FarLap® roof lap joint system.

## WATER CARRYING

Speed Deck Ultra® decking has excellent water-carrying capacity. This and the decking stiffness enable roof slopes to be as low as one degree 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 1% Annual Exceedance Probablity (formerly 100 year ARI) rainfall intensity.

**SPEED DECK ULTRA® DECKING - MINIMUM ROOF SLOPE (degrees)**

| rainfall intensity mm/h | total roof run length (m) | | | | | | | | | max roof run length (m) at min slope |
|---|---|---|---|---|---|---|---|---|---|---|
| | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | |
| 150 | | | | | | | | | | 195 |
| 175 | | | | | | | | | 1.0 | 167 |
| 200 | *Minimum Slope 1°* | | | | | | | 1.0 | 1.1 | 146 |
| 225 | | | | | | 1.0 | 1.0 | 1.3 | 1.6 | 130 |
| 250 | | | | | 1.0 | 1.1 | 1.4 | 1.8 | 2.1 | 117 |
| 275 | | | | 1.0 | 1.1 | 1.5 | 1.9 | 2.3 | 2.7 | 106 |
| 300 | | | | 1.1 | 1.5 | 1.9 | 2.4 | 2.9 | 3.4 | 97 |
| 325 | | | 1.0 | 1.4 | 1.9 | 2.4 | 2.9 | 3.5 | 4.2 | 90 |
| 350 | | 1.0 | 1.3 | 1.8 | 2.3 | 2.9 | 3.5 | 4.2 | 5.0 | 83 |
| 375 | | 1.1 | 1.6 | 2.1 | 2.7 | 3.4 | 4.2 | 5.0 | 5.9 | 78 |
| 400 | 1.0 | 1.4 | 1.9 | 2.5 | 3.2 | 4.0 | 4.9 | 5.8 | 6.8 | 73 |

Based on AS 1562.1:2018
To avoid ponded water, minimum slope of 1° should be maintained along the entire roof length.

For more information on water carrying performance of Speed Deck Ultra® decking and other Stramit® roofing profiles refer to Stramit's Roof Slope Guide.

Maximum water protection is also ensured by the absence of fastener penetrations when using Speed Deck Ultra® decking.

## CYCLONIC AREAS

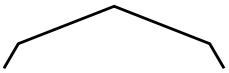
Refer to Stramit® Cyclonic Areas Roof and Wall Cladding brochure for information on use in cyclonic regions.

# PROCUREMENT

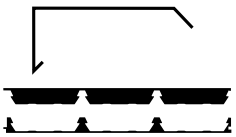
## PRICES

Prices on Speed Deck Ultra® decking and its accessories and FarLap® roof lap joint system units 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

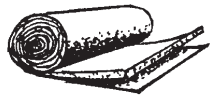


**Flashings –** a range of custom flashings

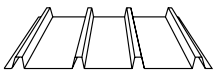


**Filler Strips –** top and bottom; for eaves, ridge and joint sealing

Use only where sealing is preferred to ventilation



**Insulation & roofing mesh –** a range of mesh, Sisalation®, plain & foil backed blanket



**Translucent sheeting –** fibreglass sheeting in a range of shades and densities

## LENGTH

Speed Deck Ultra® decking 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

Speed Deck Ultra® decking 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 Speed Deck Ultra® decking, care should be taken to ensure that the load is spread to prevent damage.

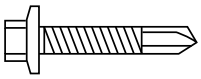
## HANDLING/STORAGE

Speed Deck Ultra® decking 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.

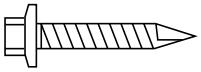
# INSTALLATION

## FASTENERS

All fastening screws must conform to AS 3566 – suitable for minimum corrosivity category 3
For connecting clips to purlins use:



**For steel** (1.5mm bmt or greater) – 12 x 30mm hex-head self-drilling & threading screws (available pre-loaded into clips in some locations)

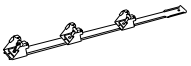


**For timber** (F11 or greater) - 12 x 50mm hex-head type 17 self-drilling screws

Note: Use 3 screws per clip, and one clip per sheet per support.

## ACCESSORIES

Use only the correct, authentic, Stramit accessories:



**Speed Deck Ultra® decking Clip** – supplied in easy to handle boxes of 40 clips.



**Speed Deck Ultra® decking End Cap** – used with silicone sealant for roof penetrations



**FarLap® roof lap joint system units** - supplied in boxes of 20 units, or in a 7m roll of 10 pre-joined units



**SkyLap®** joint system for use with translucent sheeting

## INSTALLATION

Speed Deck Ultra® decking is readily installed with or without insulation blanket. If practical lay sheets in the opposite direction to prevailing weather.

Installation of Speed Deck Ultra® decking is a straightforward procedure using the following fixing sequence:

1. Ensure all purlins are in line and correctly installed. Using a string line or the edge of the first sheet, align the first row of fixing clips. Screw the clips to the purlins in the same order as the direction of laying.
2. Locate the first sheet over the clips with the correct projection at each end of the sheet. Snap each rib on to the clip at every purlin, always in the order of the direction of laying. Note – Do not use undue force; the deck will easily accommodate clip entry

Snap ribs on to clip in order — 1-2-3

3. Hinge next clip about trailing edge of the first sheet, allowing it to fall to the purlin. Ensure correct fitting to the deck edge and that it is sitting on the extended tail of the preceding clip. Align fixing holes together then fasten clip to purlin as before.
4. Continue to lay sheets as before. From time to time measure coverage of sheets at ridge and eaves to maintain squareness.
5. At end of purlin cut fixing clip (and, if necessary, the roof sheet) to suit.

6. Turn up ends of sheet at ridge and turn down eaves ends into gutters using the Stramit Speed Deck Ultra® decking turn up/down tool.
7. Secure leading and trailing edge of the roof with a full or cut-back clip, and sealed fasteners through the roof tray, at every purlin. Cover these with side flashings. Install all flashings as required to weatherproof and complete the roof. Fix flashing according to AS 1562.1:2018.
8. Clean the roof after each day's work, removing all screws, cuttings, swarf etc, and leave roof clean and watertight.

Each clip box has an illustration of the basic clip fixing technique. A more detailed 'Installation Procedure' leaflet (with clear illustrations) is available to assist fixers on site. Ask for a copy to be sent with your order.

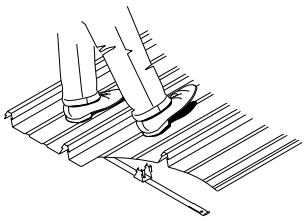
Installation details for the FarLap® roof lap joint system and SkyLap® joint system for translucent sheeting are provided in separate supplements included in each box of units.

## WALKING

As with all roofing products, extra caution must be taken when walking on the roof. When walking on Speed Deck Ultra® roofing always wear flat rubber soled shoes and place feet only in the pans, taking care to avoid the last pan or two near edges of the metal roof area.

## INSULATION

The unique Speed Deck Ultra® decking full width clip compresses blanket (up to 75mm) during installation making fixing easy. Blanket up to 100mm thick can be readily used with 25mm thick spacer blocks laid between the blanket and the fixing clips. Contact Stramit for further information.



**Walk only in pans, or on ribs at purlin supports.**

## UNSUPPORTED UNDERLAPS

Free underlap sheet edges, such as may be encountered when using translucent sheeting, may need additional support. Use a 40mm x 40mm x 1.0mm trim angle beneath the underlap and screwed to the purlins if spans exceed 1500mm for 0.42bmt, and 2000mm for 0.48bmt.

## GOOD PRACTICE

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

## SHEET HANDLING

Cut resistant or leather gloves must be worn when handling product. Foot protection must be worn when handling and transporting product. Personal Protection Equipment (PPE) must always be used.

## CUTTING

Speed Deck Ultra® decking 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.

# 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.

## FUTHER 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 Slope Guide
- Foot Traffic Guide
- 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 decking
- Roof and wall sheeting
- Lightweight structural sections
- Truss components
- Gutters and downpipes
- Fascias
- Custom flashings
- Insulating products
- Fasteners

## PATENTS

Speed Deck Ultra® decking is the subject of patents and registered design applications in Australia and patents overseas.

## REFERENCES

In preparing this document reference has been made to:

- Standards Australia Handbook – HB39 (Installation code for metal roof and wall cladding)
- Standards Australia Handbook – HB106 (Guidelines for the design of structures in snow areas)
- BlueScope Steel – Technical Bulletin TB-4 (Maintenance of exterior BlueScope coated steel products)
- BlueScope Steel – Technical Bulletin TB-1 (Steel roofing and walling products – selection guide)

# CONTACT US

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

| REGION | LOCATION | CONTACT DETAILS | TECHNICAL ENQUIRIES |
|---|---|---|---|
| NSW & ACT | SYDNEY<br>33-83 Quarry Rd, Erskine Park NSW 2759 | Ph 02 9834 0909 | Ph 02 9834 0964 |
| | CANBERRA<br>4 Bass St, Queanbeyan NSW 2620 | Ph 02 6298 2500 | |
| | COFFS HARBOUR<br>6 Mansbridge Dr, Coffs Harbour NSW 2450 | Ph 02 6656 3800 | |
| | NEWCASTLE<br>17 Nelson Rd, Cardiff NSW 2285 | Ph 02 4041 3400 | |
| | ORANGE<br>51 Leewood Dr, Orange NSW 2800 | Ph 02 6360 9200 | |
| VIC | MELBOURNE<br>3/1464 Ferntree Gully Rd, Knoxfield VIC 3180 | Ph 03 9237 6300 | Ph 03 9237 6353 |
| | ALBURY<br>18 Ariel Dr, Albury NSW 2640 | Ph 02 6092 3700 | |
| | BENDIGO<br>Lot 7-9 Ramsay Court, Kangaroo Flat VIC 3555 | Ph 03 5448 6400 | |
| TAS | HOBART<br>57 Crooked Billett Dr, Brighton TAS 7030 | Ph 03 6262 8788 | Ph 03 9237 6353 |
| SA | ADELAIDE<br>11 Stock Rd, Cavan SA 5094 | Ph 08 8219 2000 | Ph 03 9237 6353 |
| SOUTH QLD | BRISBANE<br>57-71 Platinum St, Crestmead QLD 4132 | Ph 07 3803 9999 | Ph 07 3803 9869 |
| | MARYBOROUGH<br>10 Activity St, Maryborough QLD 4650 | Ph 07 4123 9500 | |
| | ROCKHAMPTON<br>41 Johnson St, Parkhurst QLD 4702 | Ph 07 4921 5600 | |
| NORTH QLD | CAIRNS<br>53 Vickers St, Edmonton QLD 4869 | Ph 07 4034 6555 | Ph 07 3803 9869 |
| | TOWNSVILLE<br>402-408 Bayswater Rd, Garbutt QLD 4814 | Ph 07 4412 3900 | |
| WA | PERTH<br>605-615 Bickley Rd, Maddington WA 6109 | Ph 08 9493 8800 | Ph 07 3803 9869 |

**Talk to your local Stramit account manager to find out more.**

Please contact us at techsupport@stramit.com.au
for product installation instructions and further technical support.

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