

**SPEED DECK ULTRA<sup>®</sup>**  
**CONCEALED FIXED DECKING**  
WITH RES-EASE<sup>®</sup> FIXING CLIPS

TECHNICAL MANUAL



## \ PURPOSE OF THIS DOCUMENT

This manual has been created to provide detail on the purpose, uses and correct installation of Stramit Speed Deck Ultra® Concealed Fixed Decking with RES-EASE® Fixing Clips. Adherence to the details in this manual is critical to ensure that the products are compliant with the applicable regulations. Content in this manual is subject to change at any time without notice and is subject to any notices or disclaimers set out in this manual. Refer to [stramit.com.au](http://stramit.com.au) for the latest version of this document.

## \ IMPORTANT NOTICE AND DISCLAIMER

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### AUSTRALIAN MADE

We are a proud Australian Made licensee, dedicated to supporting local industry and craftsmanship.

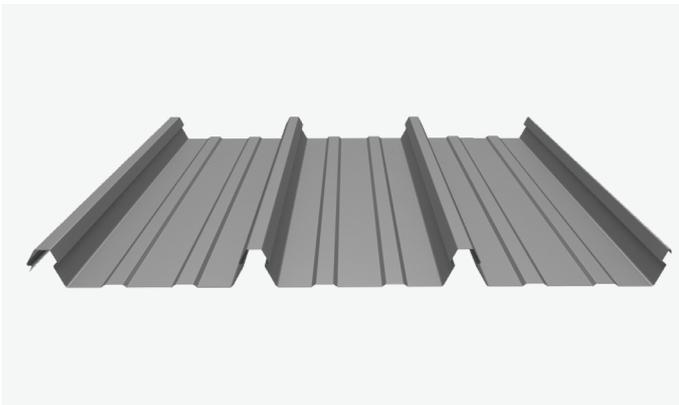
Our RES-EASE® Fixing Clip and Speed Deck Ultra® Concealed Fixed Decking is manufactured in Australia, for Australians and to withstand the unique Australian conditions.



# SELECTION AND SPECIFICATION

A residential roofing system innovation designed for rapid installation, lasting strength and thermal noise reduction.

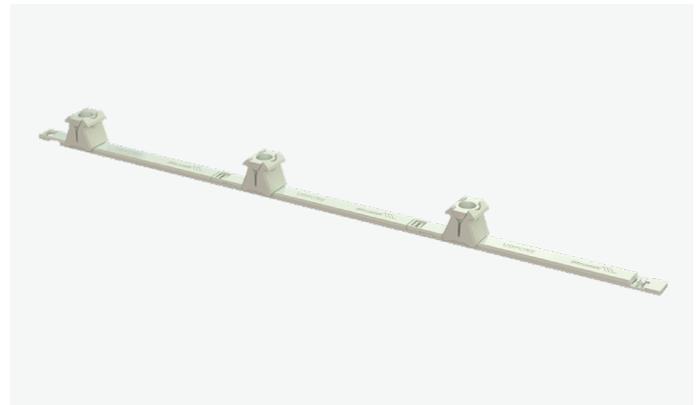
## SPEED DECK ULTRA® CONCEALED FIXED DECKING



### FEATURES AND BENEFITS

- Greatly reduced noise from thermal expansion and contraction in concealed fixed decking, gives peace of mind for owners and installers
- Easier to install with quick clipping arrangement
- Faster installation saves construction time
- Clip is made from engineering-grade polymer, eliminating risk of clip corrosion
- Centralised fastening points for better strength
- Hexagon headed screws enable a stronger and easier install
- Independently tested for up to BAL 12.5 Rated areas
- Achieved N4r Wind Rating making it suitable for large proportion of residential buildings
- Automatic Bird Proofing as a built in accessory with no need for extra components
- Ideal for low slope roofs as low as 1°
- Proudly Australian Made

## RES-EASE® FIXING CLIP



### APPLICATIONS

The visual appeal, strength, wide cover, lightweight and weather resistance of Speed Deck Ultra® Concealed Fixed Decking, in conjunction with RES-EASE® Fixing Clips, make it suitable for a range of residential roofing applications.

The large water carrying capacity and weather tightness permit very low roof pitches, leading to economies in the building structure.

Stramit Speed Deck Ultra® Concealed Fixed Decking with RES-EASE® Fixing Clips is only intended for use in residential roofing applications in non-cyclonic areas, with BAL ratings of 12.5 or less. This system would need to be signed off by a fire engineer where it is above a fire rated wall or exposed to a heat source inside the building causing temperatures above 100°C at roof level. **Do not use for any other purpose.**

**Note:** Throughout this document, when the reader sees the term "the system", this is referring to the "RES-EASE® Fixing Clips used in conjunction with Speed Deck Ultra® Concealed Fixed Decking.

# SELECTION AND SPECIFICATION

## MATERIALS

Speed Deck Ultra® Concealed Fixed 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. Contact us for colour availability.

The RES-EASE® Fixing Clip is made from carefully selected grades of nylon 66, a strong engineering grade polymer, suitable for extreme roof environments and also featured in our FarLap® roof lap joint system.

## NOISE

Noise, including thermally-induced noise, in metal roofing can result from many factors or a mix of factors. Thermally-induced noise is caused by movement at fasteners and connections where the roof sheeting expands relative to its supports or clips. This movement is resisted by the friction between the sheeting and its supports or clips.

By using RES-EASE® Fixing Clips, in conjunction with Speed Deck Ultra® Concealed Fixed Decking, this noise is reduced, as the nylon material allows the sheeting to slip purposefully on the clip and not constrain it, unlike the steel clip. This will allow gradual movement of the sheeting instead of spurts of movement, resulting in minimal noise.

It is common for all types of steel roofs to have a low level of noise such as cracking or clicking, even when fixed with a screw through the crest of the sheeting. 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, structural settlement, shrinkage, ground movements or excavations, number of additions fixed to the roof (e.g. solar panels) etc. The type of noise, frequency, patterns, volume, duration and regularity can be quite variable.

For Speed Deck Ultra® Concealed Fixed Decking, with RES-EASE® Fixing Clips, noise can be reduced (but not necessarily removed altogether) by a range of methods. As a guide some general methods 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 difference. 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.
- Structure of the roof must be well braced and rigid enough to ensure movement due to wind effects, thermal actions and vibrations are minimised.

## NCC COMPLIANCE

### NCC Compliance - Roof Sheeting

#### Volume 2 Class 1 and 10a Buildings and Housing Provisions Standard

Requirement H1P1 and H2P2 are satisfied by complying with H1D7(2)(a) or H1D7(2)(c), H2D6(4) and AS1562.1.

Non-combustibility requirement – H3D2(e) with painted steel and spread of flame index 0 is deemed non-combustible.

## BUSHFIRE ATTACK LEVEL RATING

The system consisting of Speed Deck Ultra® Concealed Fixed Decking and RES-EASE® Fixing Clips was tested and passed a BAL 12.5 bushfire rating. The testing was carried out at Warringtonfire laboratory in Melbourne. For further details contact Stramit.

## ADVERSE CONDITIONS

Speed Deck Ultra® Concealed Fixed Decking, with RES-EASE® Fixing Clips, will be very durable in most locations, subject to corrosion categories. It is however important to choose the correct coating for each application environment.

The table below shows the suitability of materials and coating types for different exposure conditions, provided there is no other aggressive influence which could affect the durability.

BLUESCOPE STEEL PRODUCTS		
suitability of coating type for site exposure conditions	roof sheeting distance from	
	breaking surf/ exposed marine	calm marine
ZINCALUME® (AM125)	>200m	>100m
COLORBOND® Classic/Matt	>200m	>0m
COLORBOND® Ultra	>100m	>0m

The suitability and exposure tables above and below are current at the time of publication and are guidelines only; conditions will vary from site to site. For BlueScope products, please check the BlueScope Technical Bulletins at [www.bluescopesteel.com.au](http://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 Stramit for advice.

UNICOTE® STEEL PRODUCTS	DISTANCE FROM MARINE INFLUENCE
UniCote® Select	1000m+
UniCote® Coastal	0m-400m+

For UniCote® Select and UniCote® Coastal products, please refer to the latest versions of their respective datasheets, available on the UniCote® website at [unicote.com.au](http://unicote.com.au).

# SELECTION AND SPECIFICATION

## 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 must 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 documentation.

The roofing/walling to be 0.42 (or 0.48) mm BMT Speed Deck Ultra® Concealed Fixed Decking in continuous lengths with trapezoidal ribs 43mm high, spaced at 233mm centres, fixed with RES-EASE® Fixing Clips. Sheeting materials to 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 must be fixed to the battens in accordance with the manufacturer's instructions using patented RES-EASE® Fixing Clips supplied.

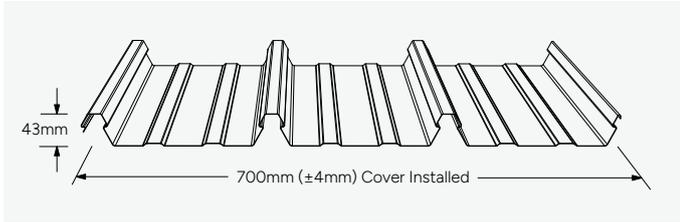
Clips must be fastened to battens with screws supplied in accordance with Australian Standard AS 3566, suitable for minimum corrosivity category 3, and attached under every rib. Sheets must be laid in such a manner that the approved side lap faces away from prevailing weather. A minimum of 50mm must be provided for projection into eave gutters. Flashings must be provided in compatible materials as specified; minimum cover of flashings must be 150mm.

All sheeting must be fixed in a workman-like manner, leaving the job clean and weathertight. All debris (nuts, screws, cuttings, filings etc.) must be cleaned off daily.

# DESIGN DATA

## SPANS

The spans shown below take account of required foot traffic and wind resistance including local pressure zone effects. Pressures are based on AS 4055:2021.



Data must 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® CONCEALED FIXED DECKING – SHEETING MASS (kg/m <sup>2</sup> 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® CONCEALED FIXED DECKING WITH RES-EASE® FIXING CLIPS – SPAN CHART (mm)												
thickness bmt (mm)	Roof edges and internal areas					Roof corners with pitch < 10° or ridge edge corner pitch ≥ 10°					Overhangs	
	pressure (kPa)					pressure (kPa)						
	serviceability	strength	double spans	equal spans	internal (end) span combination	serviceability	strength	double spans	equal spans	internal (end) span combination	free edge	
N1r – All roof battens						N1r – All roof battens						
0.42	0.73	1.25	1200	1200	1200	<i>1.06</i>	<i>1.81</i>	<i>1200</i>	<i>1200</i>	<i>1200</i>	150	
0.48	0.73	1.25	1200	1200	1200	<i>1.06</i>	<i>1.81</i>	<i>1200</i>	<i>1200</i>	<i>1200</i>	200	
N2r – All roof battens						N2r – All roof battens						
0.42	0.73	1.73	1200	1200	1200	<i>1.06</i>	<i>2.51</i>	<i>1200</i>	<i>1200</i>	<i>1200</i>	150	
0.48	0.73	1.73	1200	1200	1200	<i>1.06</i>	<i>2.51</i>	<i>1100*</i>	<i>1200</i>	<i>1200</i>	200	
N3r – Timber or steel batten ≥ 0.55mm						N3r – Timber or steel batten ≥ 0.55mm						
0.42	1.11	2.70	1200	1200	1200	<i>1.60</i>	<i>3.92</i>	-	<i>700</i>	<i>950</i>	150	
0.48	1.11	2.70	1050	1150	1200	<i>1.60</i>	<i>3.92</i>	<i>750</i>	<i>850</i>	<i>900</i>	200	
N4r – Timber or steel batten ≥ 0.55mm						N4r – Timber or steel batten ≥ 0.55mm						
0.42	1.64	4.02	-	650	900	<i>2.38</i>	<i>5.83</i>	-	-	-	150	
0.48	1.64	4.02	750	850	900	<i>2.38</i>	<i>5.83</i>	-	<i>600</i>	<i>650</i>	200	

\* Reduce to 1050mm if using a 0.48mm thick steel batten

Notes:

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. Values are valid for Timber and steel battens ≥ 0.55mm thick. For 0.48mm battens reduce span as shown above for N2r regions, contact Stramit for N3r data if required. Not suitable for steel supports thinner than 0.48mm.

For more specific applications Speed Deck Ultra® Concealed Fixed Decking with RES-EASE® Fixing Clips, 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® CONCEALED FIXED DECKING WITH RES-EASE® FIXING CLIPS														
thickness bmt (mm)	fasteners per sheet at each support	span type	Serviceability limit state capacity				Strength limit state capacity (non-cyclonic)							
			for all roof battens				for timber or steel batten ≥ 0.55mm				for steel batten 0.48mm			
			pressure (kPa) at the spans (mm) shown				pressure (kPa) at the spans (mm) shown				pressure (kPa) at the spans (mm) shown			
			450	600	900	1200	450	600	900	1200	450	600	900	1200
0.42	1 full width clip and 3 screws	internal	2.01	2.01	1.79	1.72	4.68	4.68	4.04	3.55	4.34	4.34	3.83	3.30
		equal	1.83	1.83	1.63	1.57	4.26	4.26	3.68	3.23	3.96	3.96	3.50	3.00
		double	1.61	1.61	1.43	1.38	3.74	3.74	3.23	2.84	3.49	3.49	3.08	2.64
0.48	1 full width clip and 3 screws	internal	2.80	2.80	1.99	3.05	6.71	6.71	4.13	2.82	6.23	6.23	3.89	2.76
		equal	2.55	2.55	1.81	2.78	6.10	6.10	3.76	2.57	5.68	5.68	3.54	2.52
		double	2.24	2.24	1.59	2.44	5.36	5.36	3.30	2.26	5.00	5.00	3.12	2.21

Notes:

Tables are based on testing to AS 1562.1, AS 4040 parts 0 and 2 and NCC 2022 (inc amendment 1). Internal spans must have both end spans 20% shorter. Strength values are given for steel battens 0.48mm thick on the right hand side, and timber battens or 0.55mm steel battens in the centre columns. Not suitable for steel supports thinner than 0.48mm.

# DESIGN DATA

## FOOT TRAFFIC

Foot traffic limits for Speed Deck Ultra® Concealed Fixed Decking with RES-EASE® Fixing Clips are shown in the table below.

Spans shown below 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® CONCEALED FIXED DECKING WITH RES-EASE® FIXING CLIPS – FOOT TRAFFIC LIMITED SPANS (mm)		
Thickness bmt (mm)	Span type	Foot traffic limits
0.42	internal	1200
	equal	1200
	double	1200
0.48	internal	1200
	equal	1200
	double	1200

Notes:

Tables are based on tests to AS1562.1:2018 and AS 4040 parts 0 and 1. For more information on foot traffic performance of other Stramit roofing profiles refer to Stramit's Foot Traffic Guide.

## SPRING CURVING

Speed Deck Ultra® Concealed Fixed Decking with RES-EASE® Fixing Clips are not suitable for spring curved roofs.

## DESIGNING FOR SNOW

Concealed Fixed Decking, such as Speed Deck Ultra®, 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® Concealed Fixed Decking have not been tabulated but can be assumed to equal the outward capacities shown.

The high grade of engineering polymer used in Stramit's RES-EASE® Fixing Clips is suitable for use in the low temperature environments present in alpine areas.

## 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 3, a potential consequence of thermal expansion is noise. The colour of the sheeting will affect the amount of thermal expansion.

Speed Deck Ultra® Concealed Fixed Decking has resistance to the problems associated with thermal expansion. Nevertheless, sheet lengths must be limited to those shown below for residential applications.

Should your installation have a roof length longer than the max length of sheeting that can be supplied to your site, Stramit recommends the use of the FarLap® Roof Lap Joint System. Visit our website for more information.

SPEED DECK ULTRA® CONCEALED FIXED DECKING WITH RES-EASE® FIXING CLIPS – MAXIMUM SHEET LENGTH* (m)		
Roof colour	Light	Dark
sheet length	25	17

\*Transport restrictions can apply. Check with our Customer Service Team.

## WATER CARRYING

The water carrying capacity of Speed Deck Ultra® Concealed Fixed Decking is increased due to the wide pans. 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 must include the roof length upstream of a roof penetration that concentrates flow into other pans. The table below gives slopes for 1% Annual Exceedance Probability (formerly 100 year ARI) rainfall intensity.

SPEED DECK ULTRA® CONCEALED FIXED 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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	195
175	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	167
200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	146
225	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.6	130
250	1.0	1.0	1.0	1.0	1.0	1.1	1.4	1.8	2.1	117
275	1.0	1.0	1.0	1.0	1.1	1.5	1.9	2.3	2.7	106
300	1.0	1.0	1.0	1.1	1.5	1.9	2.4	2.9	3.4	97
325	1.0	1.0	1.0	1.4	1.9	2.4	2.9	3.5	4.2	90
350	1.0	1.0	1.3	1.8	2.3	2.9	3.5	4.2	5.0	83
375	1.0	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

Notes:

Based on AS 1562.1:2018

To avoid ponded water, slope of 1° must be maintained along the entire roof length.

For more information on water carrying performance of Speed Deck Ultra® Concealed Fixed 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® Concealed Fixed Decking.

## CYCLONIC AREAS

The Speed Deck Ultra® Concealed Fixed Decking with RES-EASE® Fixing Clips is currently not suitable for cyclonic areas.

# PROCUREMENT

## PRICES

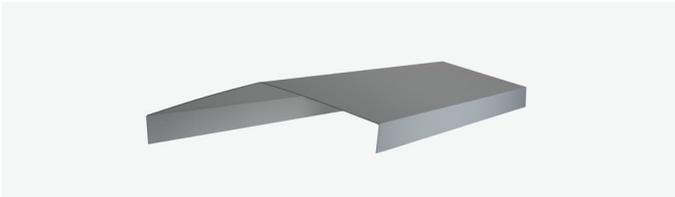
Prices on Speed Deck Ultra® Concealed Fixed Decking with RES-EASE® Fixing Clips and its accessories can be obtained from Stramit for account holders, or distributors of Stramit products.

## RELATED PRODUCTS

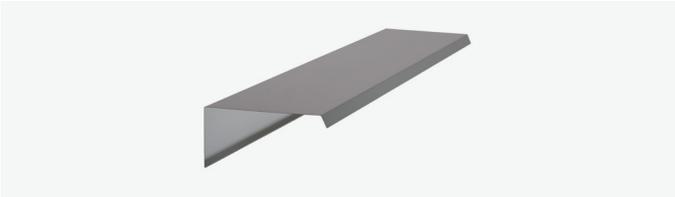
**FarLap® Roof Lap Joint System** – Solution for long roof runs using shorter sheets.



**Ridge Capping** – standard or custom dimensions



**Flashings** – a range of custom flashings



**Filler Strips** – top and bottom; for eaves, ridge and joint sealing. Use fillers strips only where sealing is preferred to ventilation.



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



## LENGTH

Speed Deck Ultra® Concealed Fixed Decking is supplied cut-to-length. When designing or transporting long products ensure that the length is within the limit of local Transport Authority regulations. The manufacturing tolerance on the length of product supplied is +0,-15mm.

## ORDERING

Speed Deck Ultra® Concealed Fixed Decking and RES-EASE® Fixing Clips can be ordered directly, through distributors, or supplied and fixed from a roofing contractor.

RES-EASE® Fixing Clips are supplied exclusively in sealed boxes of 50 x 3-gang assemblies. 1 x 3-gang assembly is the equivalent of x1 metal clip.

## 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 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® Concealed Fixed Decking care must be taken to ensure that the load is spread to prevent damage.

## HANDLING/STORAGE

Speed Deck Ultra® Concealed Fixed Decking must be handled with care at all times to preserve the product capabilities and quality of the finish. Packs must always be kept dry and stored above ground level while on site. If the sheets have become wet, they must be separated, wiped and placed in the open to promote drying. Refer to BlueScope Technical Bulletin TB-7 "Care of BlueScope coated steel products prior to installation" for detail on storage and tips on how to dry out packs that have become wet.

RES-EASE® Fixing Clips should likewise be handled with care, kept dry and stored where they cannot be damaged.

# INSTALLATION

## FASTENERS

All fastening screws must conform to AS 3566 – suitable for minimum corrosivity category 3.

For connecting clips to battens use:

Clip Fix (three per sheet per clip per support)	
Steel battens	
	Vortex® 6.2-13x35mm hex-head self-drilling and threading screws with no sealing washer.
Timber battens	
	Vortex® Plus 6.2-13x50mm self-drilling screws.
Purlins	
	If using purlin supports, use Vortex® Batten Fix 12-11x40mm hex-head self-drilling screws.

Note: Use 3 screws per full width clip, and one full width clip per 700mm wide sheet per support.

## ACCESSORIES

Use only the correct, authentic, Stramit accessories:

**RES-EASE® Fixing Clip** – supplied in easy-to-handle boxes of 50 clip assemblies.



**Speed Deck Ultra® Concealed Fixed Decking End Cap** – used with silicone sealant for roof penetrations.



**Speed Deck Ultra® Concealed Fixed Decking Turn up/Turn Down tool** – Stop Ending tool for turning the pans up at the ridge and down at the eave.



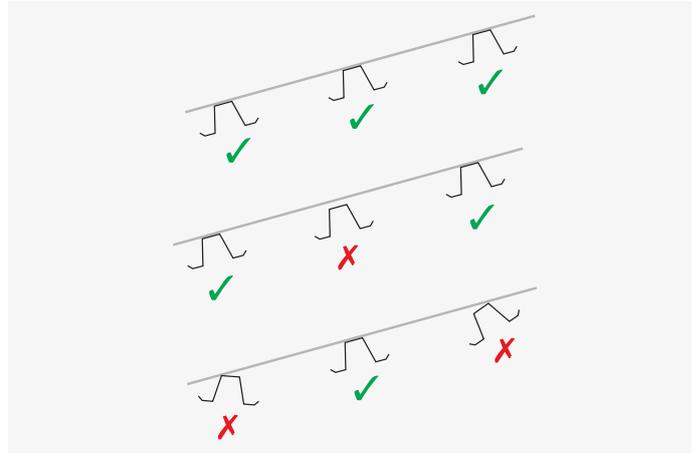
## INSTALLATION

Speed Deck Ultra® Concealed Fixed Decking with RES-EASE® Fixing Clips is readily installed with insulation blanket. Lay sheets in the opposite direction to prevailing weather.

Installation of Speed Deck Ultra® Concealed Fixed Decking with RES-EASE® Fixing Clips is a straightforward procedure using the following fixing methods. This method details the procedure used when fixing clip, then sheet, then clip in sequence:

### Method 1:

1. Ensure all battens are in line and correctly installed.



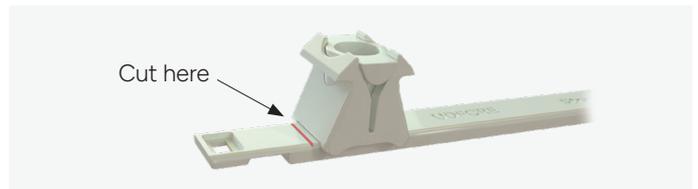
The clips are delivered with 3 sets clipped together in one row as shown on the left below. These can be taken apart to form 3 separate portions if needed.



If starting with a full sheet of Speed Deck Ultra® Concealed Fixed Decking, for the first row of clips, create a new set which has 4 separate portions joined together as shown on the left below. You would need to take apart some of the clip assemblies to join one more portion to create this set as shown on the right.



Using snips, cut off the trailing edge rail so that it is close to the upstand, this will allow the upstand to be installed right at the edge of the building.



Using a string line or the edge of the first sheet as a guide, align the first row of clips on each support. Screw the clips to the battens in the same order as the direction of laying.

Note: If not using a full starting sheet, then ensure the clip is cut in the right position to allow the part sheet to be installed, with a portion of the clip overhanging the sheet to allow the next clip to be clipped on to the first.

# INSTALLATION

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 batten, 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. Fit the next set of clips with 3 portions fitted together on to the protruding part of the first clip. It is essential that these are fitted together correctly to maintain the distance between ribs as otherwise there could be distortions in the sheet. Fasten the next set of clips in the same order as the direction of laying.
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 batten 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 gutter using the Speed Deck Ultra® Concealed Fixed Decking® 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 batten or purlin. At ridge level, fix pan of sheet down with one sealed fastener to prevent any sliding. Cover these with side and ridge flashing. Install all flashings as required to weatherproof and complete the roof. Fix flashings 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.
9. Remove strippable coating from ribs of sheeting.

Note: if exposed to sunlight for a week or more, coating will become difficult to remove.

## Method 2:

Another method of installation involves Step 1 above, then fixing all clips down on all supports as indicated in Step 3.

Once all clips are installed and screwed down, the sheets can be installed by pushing down each rib on the clip. Snap ribs on to clips in order 1-2-3 as before.

Then continue from Step 5 onwards.

Each clip box has an illustration of both clip fixing techniques. An Installation Procedure document, with clear illustrations is available to assist fixers on site. Please visit the Stramit website to download your copy.

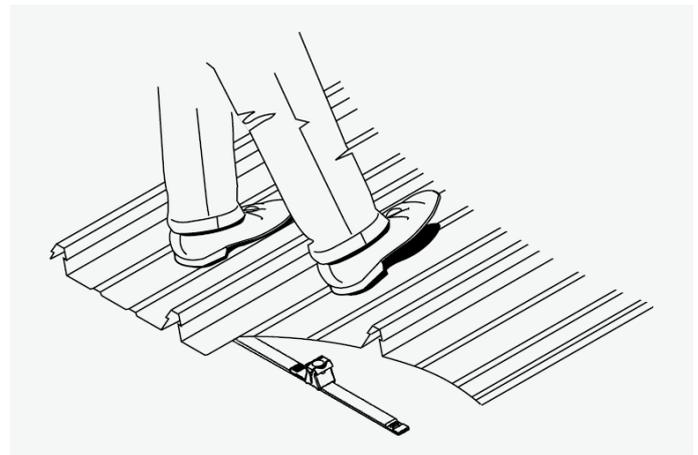
Note: Where installation is on roofs more than 20 degrees pitch, it is necessary to fix each pan down at the ridge line under the capping with 2 size 12 hex head fasteners including seals to eliminate the risk of sheeting sliding down.

## BAL Considerations:

When installing in BAL Low or 12.5 sites, please ensure Speed Deck Ultra® Concealed Fixed Decking End Caps are installed within the ribs of the sheeting, directly above the fascia. For more information on installation practices for RES-EASE® Fixing Clips, please refer to the installation guide, available on our website.

## WALKING

As with all roofing products, extra caution must be taken when walking on the roof. When walking on Speed Deck Ultra® Concealed Fixed Decking 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

RES-EASE® Fixing Clips can accommodate blankets up to 75mm in thickness. When fastening the clips to the support, flatten the rail against the support, compressing the blanket and then fasten. Repeat this in order, in the direction of laying to maintain the correct clip pitch distance. Longer screws would be required when using the thicker blanket.

Contact Stramit for further information.

## UNSUPPORTED UNDERLAPS

Free underlap sheet edges, such as encountered at the edge of the building, need additional support. Fix the pans down as in Step 7 of the installation process.

## GOOD PRACTICE

Good trade practice must be followed when using this product, such as that found in Standards Australia 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® Concealed Fixed Decking can be 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 awning are such a situation.

Further information on maintenance of the product can be found in BlueScope Technical Bulletin TB-4 for COLORBOND® steel product at <https://cdn.dcs.bluescope.com.au/download/tb-04>.

For further information on the maintenance of UniCote® products, refer to the document available at <https://unicote.com.au/technical-resources/maintenance-and-repair-of-unicote-products/>

## 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)  
<https://cdn.dcs.bluescope.com.au/download/tb-04>

BlueScope Steel – Technical Bulletin TB-1A  
(Steel roofing products – selection guide)  
<https://cdn.dcs.bluescope.com.au/download/tb-01a>

BlueScope Steel – Technical Bulletin TB-7  
(Care of BlueScope coated steel products prior to installation)  
<https://cdn.dcs.bluescope.com.au/download/tb-07>

Unicote – Technical Resources  
<https://unicote.com.au/technical-resources>

Maintenance and repair of UniCote® products - Unicote  
<https://unicote.com.au/technical-resources/maintenance-and-repair-of-unicote-products/>

Data Sheet – UniCote® Coastal  
<https://unicote.com.au/technical-resources/data-sheet-unicote-coastal/>

Data Sheet – UniCote® Select  
[https://unicote.com.au/wp-content/uploads/2023/07/Data-Sheet-UniCote-Select\\_040823.pdf](https://unicote.com.au/wp-content/uploads/2023/07/Data-Sheet-UniCote-Select_040823.pdf)

## FURTHER INFORMATION

For copies of this and our other literature, please visit the resources page of the Stramit website at [www.stramit.com.au/resources](http://www.stramit.com.au/resources)

## OTHER PRODUCTS

Stramit offers a wide range of building products, including:

- Purlins and girts
- Formwork decking
- Roof and wall sheeting
- Lightweight structural sections
- Gutter and downpipes
- Fascias
- Custom flashings
- Insulating products
- Fasteners

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

## PATENTS

The RES-EASE® Fixing Clip is the subject of patents and registered design applications in Australia and Overseas.

## RECYCLING

RES-EASE® Fixing Clips are made from recyclable polymers.

# HARD STEEL WREAL PEOPLE

For product technical support enquiries please contact: [techsupport@stramit.com.au](mailto:techsupport@stramit.com.au)

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**[stramit.com.au](http://stramit.com.au)**

