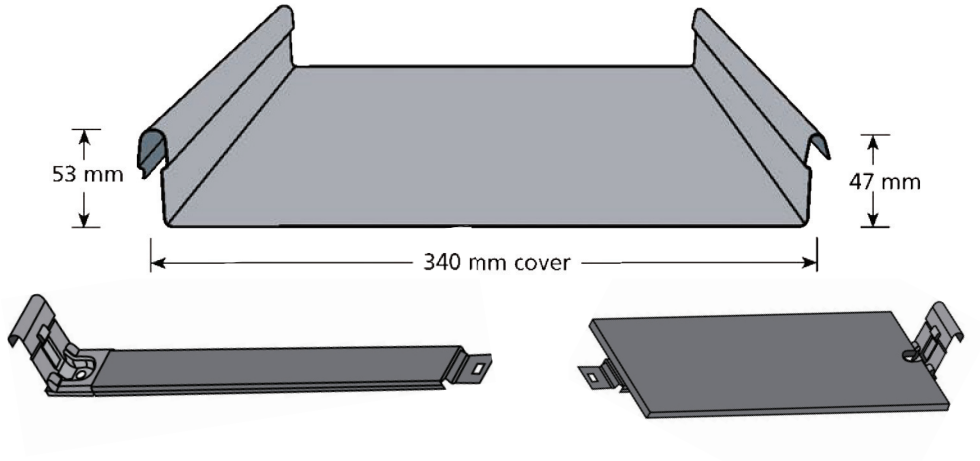
MAXLINE 340



FEATURES & BENEFITS

- Concealed fix flat profile.
- Self spanning up to 1500mm.
- Unique installation system.
- Fully structural - No substrate required.
- Genuine 325mm wide pan profile.
- Strong narrow 'needle' 53mm rib line.

Perfect for both walling and roofing, the patented, free span technology of the MaxLine 340 unique installation system allows self-spanning up to 1500mm without the need for marine ply. With a 340mm pan width and a 53mm rib height, the MaxLine 340 is the widest flat pan profile on the market that does not require an unsightly pan stiffener.

Oil Canning is an inherent characteristic of gauge cold formed metal products, particularly products with broad flat areas line Maxline 340. It is seen as waviness or distortion in flat surfaces. Oil canning does not affect the products strength or performance. The architect, builder and homeowner needs to be aware that oil canning may affect the overall aesthetic outcome. Oil canning may occur during the rollforming process and or during installation and where thermal expansion occurs. stiffener.

MATERIAL SPECIFICATIONS

Revolution Roofing only use 100% BlueScope Steel products.

COLORBOND steel .60 Blue Orb G300, AZ150 (300Mpa minimum yield stress, 150g/m minimum coating mass).

COLORBOND steel 0.55 G300, AZ150 (300Mpa minimum yield stress, 150g/m minimum coating mass).

Also available in non-ferrous metals such as Copper, Aluminium, Titanium zinc, and Stainless Steel. Please contact your nearest Revolution Roofing office for specific details on colours, gauges and minimum order quantity.

MINIMUM ROOF PITCH 1 DEGREE

For the MaxLine 340 a minimum roof pitch of 1 degree is recommended.

TOLERANCE & MASSES

MaxLine 340 Masses				
Measurement	Zincalume 0.60 BMT	Colorbond 0.60 BMT	Z600 Galvanised	Metallic 0.55 BMT
kg/lm	2.14	2.34	2.59	2.15
kg/m^2	6.29	6.88	7.62	6.32
m^2/t	-	-	-	-

TOLERANCES

Length: +7mm/ -7mm Width: +4mm/ -4mm

The MaxLine 340 has been tested to the following standards:

- AS 1562.1 - 1992 Design and installation of sheet roof and wall cladding.
- AS 4040 - 1992 Methods of testing sheet roof and walling cladding - Part 0: Introduction, list of methods and general requirements - Part 2: Methods of testing sheet roof and wall cladding - Resistance to wind pressures for non-cyclone regions.
- The Revolution Roofing MaxLine 340 is manufactured to AS1397 and AS2728 standards.
- The Revolution Roofing MaxLine 340 requires installation to follow the AS1445 and AS1565 standards following the HB39 code.

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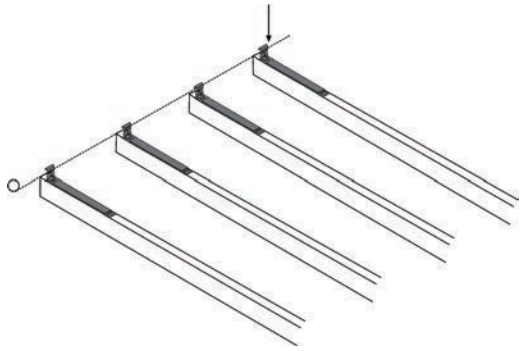
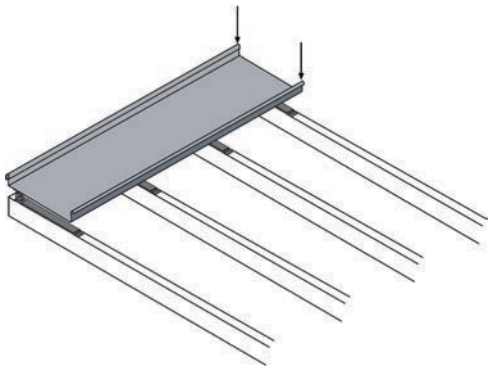
MAXLINE 340

INSTALLATION & SCREWS NON-CYCLONIC

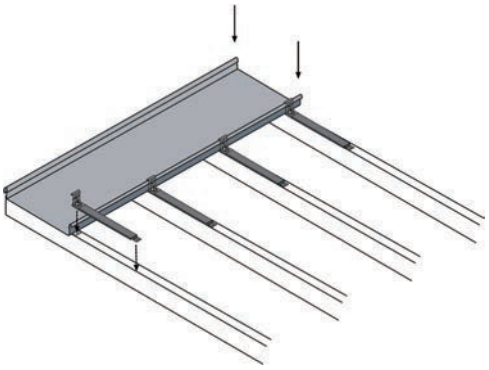
Revolution Roofing recommend installing a waterproof, breathable, vapour membrane between the cladding and the support. This will offer a second line of defence against moisture ingress.



Using the recommended fasteners, fix the first clip, with the arrow of the clip pointing towards the area to be laid at a 90 degree angle to the gutter in a straight line. Please endeavour to ensure the overlaps face away from the wind.

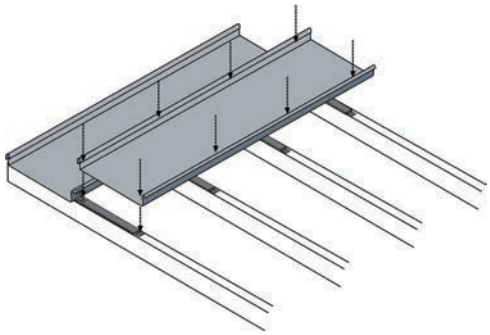


Fix first sheet to clips using downward pressure ensuring deck is properly engaged into clip. Check there is adequate overhang of the sheet to the eaves line.



Position the strap of the next clip over the top of the male rib then fix to previous clip using the locating tab. Proceed with next MaxLine 340 sheet by engaging the female rib onto the mal rib with the strap of the clip in between.

Continue fixing clips for deck in same manner, check periodically with a string line that the deck is properly aligned.



The installation of the MaxLine 340 is to be carried out by a Revolution Roofing Licenced and Trained Contractor. Installation details are available on request. All fixings to be concealed and tolerance for material thermal movement must be allowed for during installation.

All rainwater goods associated with the installation of MaxLine 340 are available from Revolution Roofing and must be fixed to allow for thermal expansion.

Pan fixing

The MaxLine 340 can be pan fixed to timber or steel supports with the recommended fasteners no less than 30mm from sheet ends.

Sheet Ends

At the end of the purlins, cut the deck and the clip to suit. It is recommended to allow roof sheets to overlap into gutters by about 50mm.

Turn up MaxLine 340 pans at the ridge line. Pans should be turned down a the gutter line of lower pitches.

Lengths

Lengths are provided are your required length.

CLIP FIXING

Concealed fixing is the method of fixing sheets using fasteners, which do not pass through the sheet. Instead, the cladding is held in place with clips, refer the below table for fastening clips.

MaxLine 340 Clip Fixing (Non-Cyclonic)	
Type	Fixing to Steel and Timber
With Insulation	M6 - 11 x 25mm Roofzip
Without Insulation	M6 - 11 x 25mm Roofzip

Note: When fixing to timber please contact your Revolution Roofing representative for more information or refer to the pan fixing guide.

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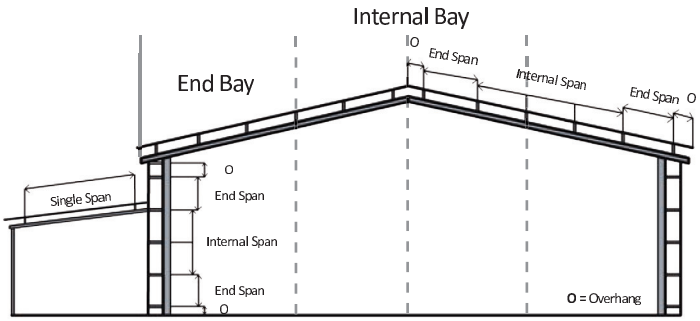
SPAN TABLE NON-CYCLONIC

Revolution Roofing MaxLine 340 Recommended Maximum Support Spacings (mm) SPAN TABLE	
Type of Roof Span BMT (mm)	**0.55**
Single Span	1100
End Span	1100
Internal Span	1500
Unstiffened Eaves Overhang	250
Stiffened Eaves Overhang	250
Type of Wall Span BMT (mm)	**0.55**
Single Span	1800
End Span	1200
Internal Span	1800
Unstiffened Eaves Overhang	250
Stiffened Eaves Overhang	250

STANDARD INTERPRETATION OF SPANS



Design Parameters

Region A:
Terrain Category 2
Height = 10m
K_L = 2.0
V_Z = 45m/sec
q^*u = 1.215 kPa
q_S = 0.821 kPa
$C_{p.e}$ = -0.65
$C_{p.i}$ = 0.20

	Internal	End
	K_L 1.0	K_L 2.0
	ΣC = -0.85	ΣC = -1.50
P_u =	1.03 kPa	1.82 kPa
P_s =	0.70 kPa	1.23 kPa

Note:

Table limits for walls based on pressures stated in above table.

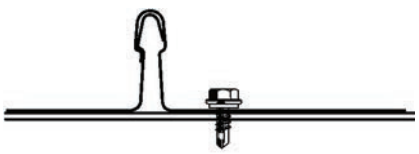
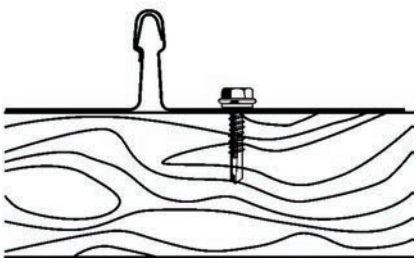
Maximum Support Spacings

The maximum recommended support spacings are based on testing in accordance with AS1562.1-1992, AS4040.1-1992 and AS4040.2-1992. The recommended roof spans take in to consideration both resistance to wind pressure and light roof traffic (traffic arising from maintenance). The wall spans take in to consideration the resistance to wind pressure only.

Note: After exposure of cladding to an extreme wind event, it is recommended that inspection be performed to confirm cladding integrity.

WALLING PAN FIXING RECOMMENDATIONS

Fixing to Steel



Fixing to Timber