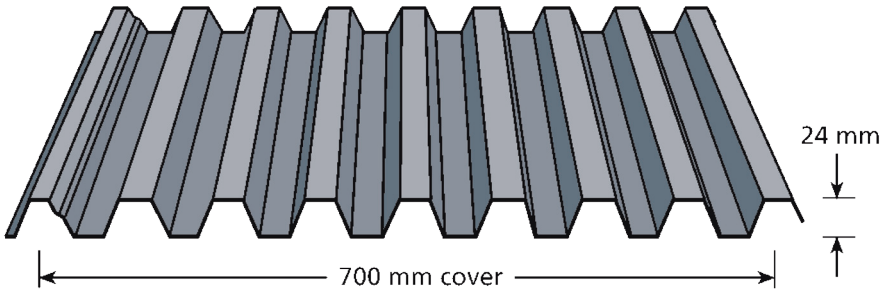
REVSPAN 700



FEATURES & BENEFITS

- 700mm coverage.
- Traditional yet popular roofing & cladding profile.
- Contemporary trapezoidal profile.
- Modern & square design.
- Available in both roofing & walling applications.
- Perfect for both domestic and industrial applications .
- Improved lapping & capillary action.
- Superior strength with a higher squarer multi rib design.
- Greater spanning qualities.
- Suitable cladding applications.
- Durable and ideal for high traffic areas.

MATERIAL SPECIFICATIONS

Revolution Roofing only use 100% BlueScope Steel products.

ZINCALUME® steel aluminium/zinc alloy-coated steel complying with AS1397-2001 G550, AZ150 (550MPa minimum yield stress, 150g/m^2 minimum coating mass); or Stainless Steel standard grade designation is AISI/ASTM Type 430; UNS No. S43000.

COLORBOND® steel metal thickness is 0.35, 0.42 or 0.48mm. G550, AZ150 (550MPa minimum yield stress, 150g/m^2 minimum coating mass). COLORBOND® Ultra base metal thickness is 0.42 or 0.48mm. G550, AZ200 (550MPa minimum yield stress, 200g/m^2 minimum coating mass).

COLORBOND® steel .60 Blue Orb G300, AZ150 (300Mpa minimum yield stress, 150g/m^2 minimum coating mass). COLORBOND® Metallic steel base metal thickness is 0.48mm. G550, AZ150 (550Mpa minimum yield stress, 150g/m^2 minimum yield stress, 150g/m^2 minimum coating mass). The COLORBOND® prepainted steel complies with AS/NZS2728:1997.

MINIMUM ROOF PITCH 3 DEGREES

For REVSPAN 700 a minimum roof pitch of 3 degrees is recommended for short lengths.

Note: For short sheet lengths the minimum pitch may be 2 degrees. On a roof pitch less than 3 degrees, we recommend that the pans be turned down in to gutter and turned up at the ridge line in accordance with Australian Standards SAA HB39 - 1997 Installation Code for metal roofing and wall cladding. It is recommended that sheet lengths greater than 24m will require an expansion joint. For further information regarding minimum pitch please contact your nearest Revolution Roofing store.

TOLERANCE & MASSES

REVSPAN 700 Masses				
Measurement	Zincalume 0.42 BMT	Colorbond 0.42 BMT	Zincalume 0.48 BMT	Colorbond 0.48 BMT
kg/lm	3.26	3.32	3.70	3.76
kg/m^2	4.65	4.74	5.29	5.37
m^2/t	215	211	189	186

Tolerances

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

The REVSPAN 700 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 REVSPAN 700 is manufactured to AS1397 and AS2728 standards.
- The Revolution Roofing REVSPAN 700 requires installation to follow the AS1445 and AS1565 standards following the HB39 code.

Zincalume® Colorbond®

MILE END SOUTH SA
55 Scotland Road
P: 08 8352 0911 F: 08 8352 0922

LONSDALE SA
14 Bredbo Street
P: 08 8186 0545 F: 08 8186 1341

OSBORNE PARK WA
55b Hector Street
P: 08 9217 9011 F: 08 9204 5564

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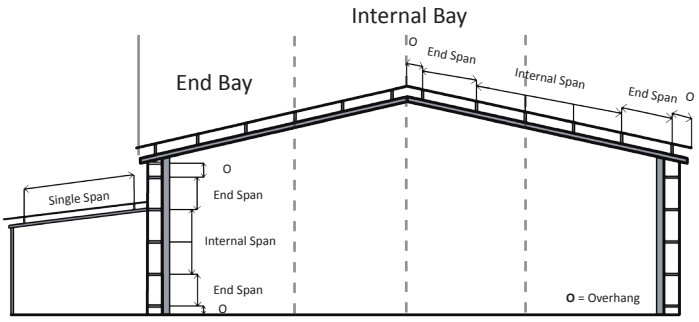
SPAN TABLE NON-CYCLONIC

Revolution Roofing REVSPAN 700 Recommended Maximum Support Spacings (mm) SPAN TABLE		
Roof Span	**0.42 BMT**	**0.48 BMT**
Single Span	1250	2050
End Span	1750	2250
Internal Span	2350	2950
Unstiffened Eaves Overhang	200	250
Stiffened Eaves Overhang	500	600
Wall Span	**0.42 BMT**	**0.48 BMT**
Single Span	2500	2600
End Span	3100	3200
Internal Span	3400	3600
Unstiffened Eaves Overhang	200	250
Stiffened Eaves Overhang	500	600

Note:

1. For roofing the data is based on foot traffic loading.
2. For walling the data is based on wind pressure.
3. The above data table is based on supports of 1.5mm BMT.

STANDARD INTERPRETATION OF SPANS



Design Parameters

Region A:
Terrain Category 2
Height = 10m
KL = 2.0
V_Z = 45m/sec
q*u = 1.215 kPa
qs = 0.821 kPa
Cp.e = -0.65
Cp.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.

SERVICEABILITY AND STRENGTH

Non-Cyclonic 0.42 BMT NON-CYCLONIC Wind Uplift Resistance - Service and Strength Limit State Design					
Span (mm)	End Span		Span (mm)	Internal Span	
	Serviceability (kPa)	Strength (kPa)		Serviceability (kPa)	Strength (kPa)
900	1.68	4.31	1200	1.72	4.38
1200	1.36	3.45	1500	1.40	3.52
1500	1.12	2.78	1800	1.13	2.82
1800	0.91	2.24	2100	0.90	2.23

Non-Cyclonic 0.48 BMT NON-CYCLONIC Wind Uplift Resistance - Service and Strength Limit State Design					
Span (mm)	End Span		Span (mm)	Internal Span	
	Serviceability (kPa)	Strength (kPa)		Serviceability (kPa)	Strength (kPa)
900	2.40	7.24	1200	2.45	7.45
1200	2.01	5.35	1500	2.05	5.55
1500	1.71	3.89	1800	1.73	4.00
1800	1.46	2.69	2100	1.45	2.68

Cyclonic 0.42 BMT & 0.48 BMT CYCLONIC Wind Uplift Resistance - Service and Strength Limit State Design				
Span (mm)	0.42 BMT		0.48 BMT	
	End Span (kpa)	Internal Span (kpa)	End Span (kpa)	Internal Span (kpa)
900	6.30	-	6.54	-
1200	5.06	6.06	5.59	6.36
1500	3.45	5.03	4.14	5.53
1800	1.95	3.79	2.74	4.41
2100	1.01	2.55	1.95	3.25
2400	-	1.52	-	2.30

The above cyclonic data is based on supports of 1.5mm BMT G450 steel sections and the following fixings:

Screws = 14g - 10tpi x 53mm
Washers = BX SQUARELOK 5-691-0010-2C4 1mm thick washers.

MILE END SOUTH SA
55 Scotland Road
P: 08 8352 0911 F: 08 8352 0922

LONSDALE SA
14 Bredbo Street
P: 08 8186 0545 F: 08 8186 1341

OSBORNE PARK WA
55b Hector Street
P: 08 9217 9011 F: 08 9204 5564

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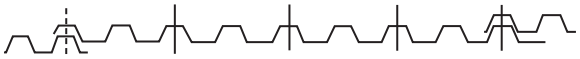
FASTENER SPACING NON-CYCLONIC

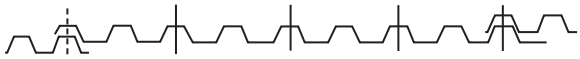
Crest Fastener Location	Pan Fastener Location
4 fasteners per sheet - end supports and end laps	4 fasteners per sheet - end supports and end laps



Note: Most common practice is: 4 fasteners for internal spans and 5 fasteners for single and end spans, equating to 5-6 screw per square metre.

FASTENER SPACING CYCLONIC

Crest Fastener Location	Pan Fastener Location
4 fasteners per sheet - end supports and end laps	4 fasteners per sheet - end supports and end laps



Note: Most common practice is: 4 fasteners for internal spans and 5 fasteners for single and end spans.

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.

* The above data displayed is based on trend data, which is a true representation of the average product capability.

REVSPAN 700

INSTALLATION & SCREWS NON-CYCLONIC

The Revolution Roofing REVSPAN 700 is pierce-fixed to timber or steel supports. This means that fastener screws pass through sheeting.

You can place screws through the crests or in the pans. For wall cladding use pan fixing however to maximise watertightness for roofing, always place the screws through the crests.

Side Laps

Revolution Roofing recommend using side lap fasteners at mid spans for purlin spacing's over 900mm and girt spacing's over 1200mm when using the REVSPAN 700 at its maximum length. This ensures the sheet laps are held firmly in place and help reduce the possibility of future leaks that arise from expansion and contraction.

The edge of the REVSPAN 700 with its improved capillary action should always be used as the underlap. When cladding is supported, side lap fasteners are generally not needed for extra strength.

Turning of Sheeting Ends

It is common practice to overlap sheets into gutters by 50mm when the roof pitch is 25 degrees or in extreme weather areas. The pans of the sheets should be turned down at lower ends and turned up at upper ends.

When REVSPAN 700 is laid on a pitch less than 5 degrees, cut back the corner of the undersheet, at the downhill end of the sheet to block capillary action.

Lengths

Sheets are provided at your required length.

RECOMMENDED FASTENERS

Suggested REVSPAN 700 Non-Cyclonic Pierce Fixing

Type	Fixing To Steel (Up to 1.9mm)	Fixing To Steel (2.0mm - 3.5mm)	Fixing To Timber
Crest Fixed	M6.2-13 x 50mm Hex Head HiGrip w/- Seal	Self Drilling 12-14 x 45mm Hex Head HiGrip w/- Seal	M6.2 -13x50mm Hex Head Hi Grip w/- Seal
Valley Fixed (Wall Only)	M6.2 -13x25mm or 10-16 x 16mm Metal Teks Hexagon Head with Seal	-	M6.2 -13x25mm or 10-12 x 25mm T17
Side Lap & Accessories	Self drilling needle point stitching screws with hex, slot-head EPDM seal: 8-15x 15 or sealed blind rivets: 4.8 diameter aluminium		

Suggested REVSPAN 700 Cyclonic Pierce Fixing

Type	Fixing To Steel (Up to 1.9mm)	Fixing To Timber
Crest Fixed	14- 10 x 50 Hex head HG/Seal + corrolok washers 1mm thick, class 4.	14- 10 x 50 Hex head HG/Seal + corrolok washers 1mm thick, class 4.
Valley Fixed (Wall Only)	M6.2 -13x25mm or 10-16 x 16mm Metal Teks Hexagon Head with Seal	M6.2 -13x25mm or 10-12 x 25mm T17
Side Lap & Accessories	Self drilling needle point stitching screws with hex, slot-head EPDM seal: 8-15x 15 or sealed blind rivets: 4.8 diameter aluminium	

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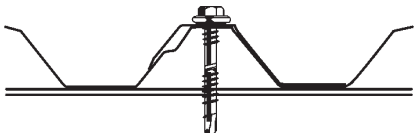
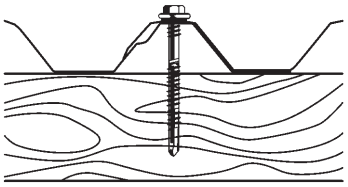
Fixing to Steel

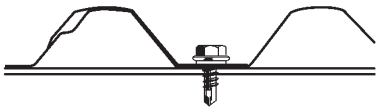


Fixing to Timber

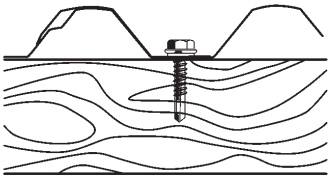


WALLING PAN FIXING

Fixing to Steel



Fixing to Timber



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