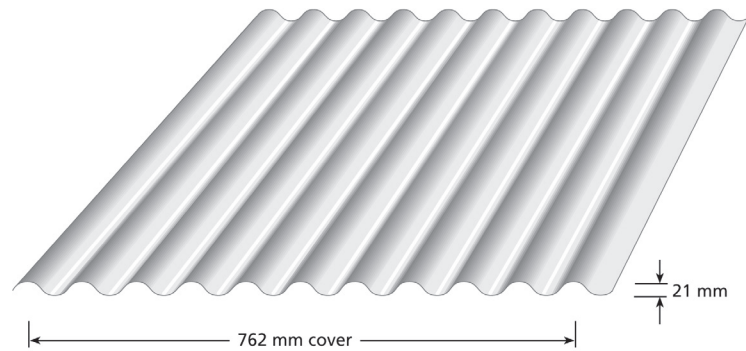


# TRUE OAK 'DEEP'

Patented technology  
**EXCLUSIVE**  
to Revolution Roofing



## FEATURES & BENEFITS

- 76mm x 21mm corrugation.
- Suitable for roofing, walling & fencing applications.
- Also available in 600mm heritage galvanised 8 flute cover.
- 40% deeper and 40% stronger than standard shallow corrugated.
- Ability to go down to a 3 degree pitch.
- This profile is much stronger underfoot and is far less susceptible to denting by foot traffic.

Note: To be used in conjunction with True Oak barge & ridge.

## 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<sup>2</sup> minimum coating mass); or Stainless Steel standard grade designation is AISI/ASTM Type 430; UNS No. S43000.

COLORBOND® steel roofing metal thickness is 0.40, 0.42 or 0.48mm. G550, AZ150 (550MPa minimum yield stress, 150g/m<sup>2</sup> minimum coating mass). COLORBOND® Ultra base metal thickness is 0.42 or 0.48mm. G550, AZ200 (550MPa minimum yield stress, 200g/m<sup>2</sup> minimum coating mass).

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

## MINIMUM ROOF PITCH 3 degrees

The TRUE OAK 'DEEP' can go down to a minimum roof pitch of 3 degrees. Sheet lengths greater than 24m will require an expansion joint.

## TOLERANCE & MASSES

TRUE OAK 'DEEP' Masses						
Measurement	Zincalume 0.40 BMT	Colorbond 0.40 BMT	Zincalume 0.42 BMT	Colorbond 0.42 BMT	Zincalume 0.48 BMT	Colorbond 0.48 BMT
kg/m	3.28	3.33	3.43	3.49	3.91	3.95
kg/m <sup>2</sup>	4.31	4.38	4.50	4.58	5.13	5.18

## Tolerances

Length: +7mm/ -7mm

Width: +4mm/ -4mm

## GUARANTEED TO LAST

Revolution Roofing are so sure that their new True Oak corrugated will stand the test of time they are willing to back it up with an exclusive True Oak 20 Year Watertight Installation Guarantee. This back-to-back material & corrosion warranty is available only when the product is installed by a Revolution Roofing Licensed Contractor.



## HISTORIC NEW COLOUR FROM THE PAST

Even BlueScope Steel is excited! To coincide with the launch of Revolution Roofings new True Oak corrugated profiles, BlueScope Steel have launched a new semi-metallic colour 'Cordite Grey' in the style of the original graphite micaceous paints.



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



# TRUE OAK 'DEEP'

## SPAN TABLE NON-CYCLONIC

Revolution Roofing TRUE OAK 'DEEP'					
Recommended Maximum Support Spacings (mm) SPAN TABLE					
Roof Span	0.40 BMT	0.42 BMT	0.48 BMT	Trafficable 0.60	Controlled 0.60
Single Span	750	800	950	900	1500
End Span	950	1100	1500	1200	1900
Internal Span	1350	1500	1900	1600	2600
Unstiffened Eaves Overhang	250	250	300	-	-
Stiffened Eaves Overhang	400	400	450	-	-
Wall Span	0.40 BMT	0.42 BMT	0.48 BMT		
Single Span	1700	1800	1900		
End Span	2300	2500	2700		
Internal Span	2500	2700	2900		
Overhang	250	250	300		

Controlled Roof Span:

Suggested for use when very minimal foot traffic will occur and minor imperfections would be acceptable if they should occur.

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 1mm BMT.
4. Table limits for wall based on \*pressures.

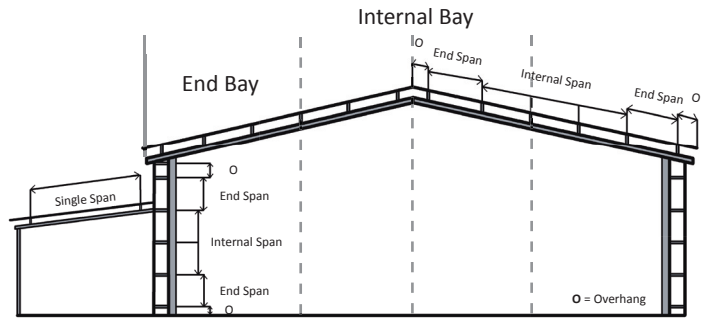
### Turning of Sheeting Ends

It is recommended to allow roof sheets to overlap into gutters by about 50mm. The valleys of sheets should be turned down at lower ends and turned up at the upper ends of the sheet.

### Lengths

Sheets are provided at your required length.

## STANDARD INTERPRETATION OF SPANS



### Design Parameters

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

	Internal	End
	$K_1 1.0$	$K_2 2.0$
	$\Sigma C = -0.85$	$\Sigma C = -1.50$
$P_e =$	1.03 kPa	1.82 kPa
$P_w =$	0.70 kPa	1.23 kPa

Note:

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

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	1.46	6.69	1200	1.40	6.41
1200	1.17	4.66	1500	1.19	4.90
1500	0.95	3.25	1800	1.02	3.67
1800	0.77	2.26	2100	0.87	2.63

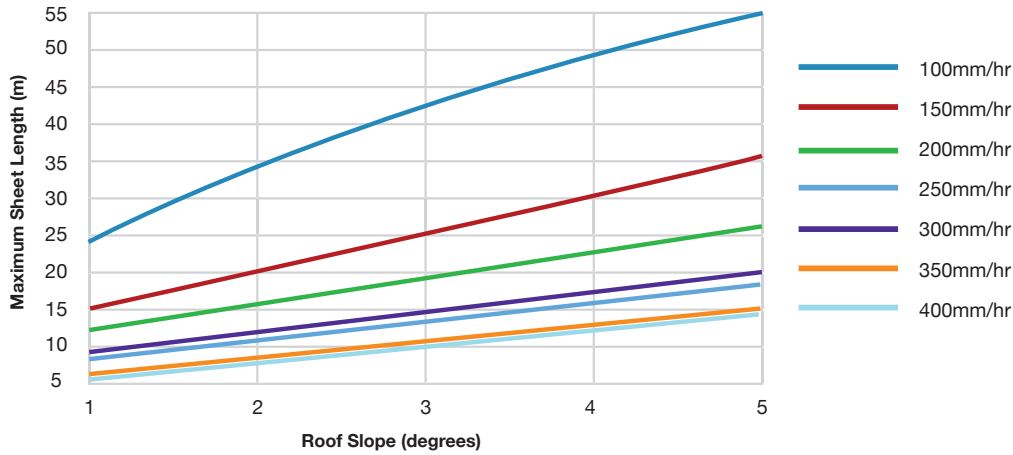
TRUE OAK 'DEEP' Rainfall Capacity							
Maximum Roof Length for Drainage							
Roof Slope (degrees)	Rainfall Capacity (mm/hr)						
	100	150	200	250	300	350	400
1	24	16	12	9	8	6	6
2	34	22	17	13	11	9	8
3	41	27	20	16	13	11	10
4	48	32	24	19	16	13	12
5	54*	36	27	21	18	15	13

Note:

1. Arbitrary length limit, refer Revolution Roofing for specific extensions.

# TRUE OAK 'DEEP'

## MAXIMUM ROOF LENGTHS FOR DRAINAGE



\*\*\*Revolution Roofing recommends a minimum pitch of 3 degrees. When using TRUE OAK 'DEEP'

Note:

1. Analysis based upon steady state of flow and Manning formula with n=0.222.
2. Analysis based upon depth of flow 9.5mm (sheet overlap consider to be 2mm above the line of flow).
3. Analysis doesn't consider thermal limitations on maximum length, refer to Revolution Roofing for details.
4. The above tables do not consider gutter and downpipe requirements.

## FASTENER SPACING NON-CYCLONIC

### Crest Fastener Location

5 fasteners per sheet - end supports and end laps



### 3 fasteners per sheet - internal supports

(roofing should be lapped away from prevailing weather)



Note: Side lap fasteners are optional when using 5 fasteners per sheet, but are a requirement when only using 3 fasteners per sheet for valleys

## 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.

# TRUE OAK 'DEEP'

## INSTALLATION & SCREWS NON-CYCLONIC

### Side Laps

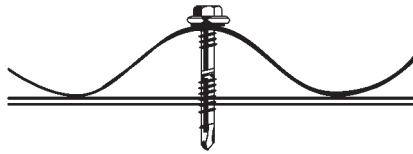
Side-lapping of the True Oak 'DEEP' may be a requirement at maximum spans. It is generally considered good practice to use fasteners along side-laps to help hold the sheet laps firmly in place and maintain a weatherproof joint. When cladding is supported, side-lap fasteners are generally not needed for extra strength.

## RECOMMENDED FASTENERS

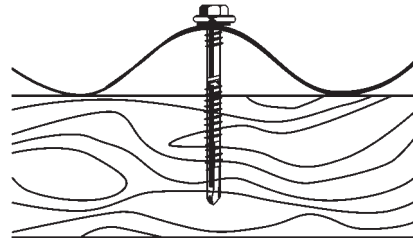
Suggested TRUE OAK 'DEEP' - Non Cyclonic Pierce Fixing			
Type	Fixing To Steel (Up to 1.9mm)	Fixing To Steel (2.0mm - 3.5mm)	Fixing To Timber
Crest Fixed	M6.2-13 x 50mm Hex Head HiGrip w/- Seal	Self Drilling 12-14 x 35mm Hex Head HiGrip w/- Seal	M6.2 -13x50mm or 65mm T17 Timber
Valley Fixed (Wall Only)	M6.2 -13x25mm or 10-16 x 16mm Metal Tek's Hexagon Head with Seal	-	M6.2 -13x25mm or 10-12 x 25mm T17

### ROOFING CREST FIXING

#### Fixing to Steel

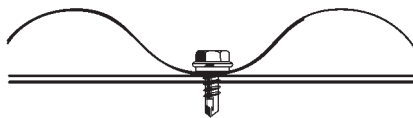


#### Fixing to Timber



### VALLEY FIXING (WALL ONLY)

#### Fixing to Steel



#### Fixing to Timber

