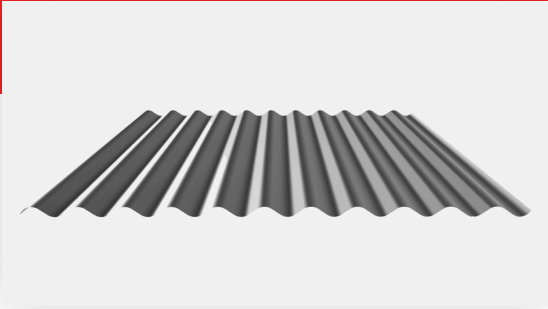


Corrugated 16mm

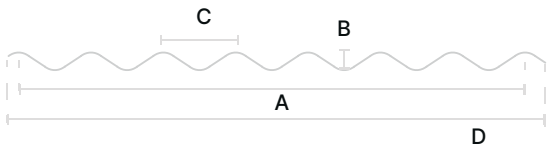


OVERVIEW

Corrugated 16mm is designed for a seamless finish for both Roofing and Walling Applications, thanks to its high-quality 762mm coverage and durability.

COVERAGE WIDTH	MINIMUM ROOF PITCH	RIB HEIGHT
762mm Nominal	5 Degrees	16mm
SPRING CURVING	MECHANICAL CURVING	
12000mm Minimum Radius	500mm Minimum Radius	

PROFILE



- A = 762.0mm +/- 2mm
- B = 16.0mm
- C = 76.2mm
- D = 838.0mm

* Visit edgebp.com.au for CAD & Revit Files

AVAILABILITY

LOCATION



- AUSTRALIA WIDE
- CYCLONIC

MATERIAL & GUAGES

- 0.35 BMT
- 0.42 BMT
- 0.48 BMT
- 0.60 BMT
- UniZinc
- UniCote® Select
- UniCote® Coastal
- UniCote® LUX

NON-CYCLONIC SPAN TABLE

ROOF SHEETING NON-CYCLONIC SPAN TABLE

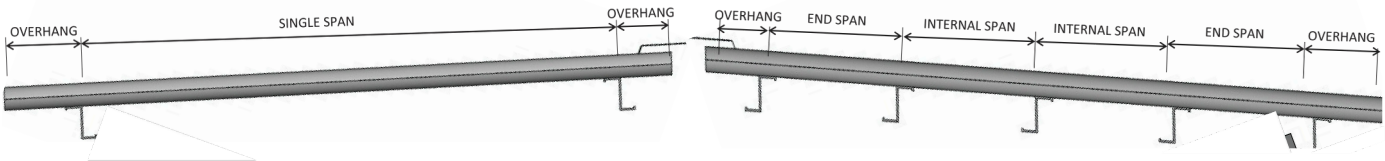
ROOF SPAN	0.42 BMT	0.48 BMT	0.60 BMT
Single Span	700	900	1200
End Span	900	1200	1300
Internal Span	1200	1600	1800
Unstiffened Overhang	200	250	250
Stiffened Overhang	250	300	300

WALL CLADDING NON-CYCLONIC SPAN TABLE

WALL SPAN	0.42 BMT	0.48 BMT
End Span	1200	1200
Internal Span	1400	1950
Unsupported Cantileaver	300*	300*

* Rivet required, securing the overlap, 50mm from the end of the sheet

SPAN DEFINITIONS



DESIGN PARAMETERS

Region	A	Height	10 metre	Internal Bay	End Bay K1 =
Terrain Category	2	Vz	45 m/sec	K1 = 1.0	2.0
		q*u	1.215 kPa	ΣC = -0.85v	ΣC = -1.50
		qs	0.821 kPa	Pu = 1.03 kPa	Pu = 1.82 kPa
		Cp.e	-0.65	Ps = 0.70 kPa	Ps = 1.23 kPa
		Cp	0.2		

NON-CYCLONIC SERVICABILITY & STRENGTH

NON-CYCLONIC CORRUGATED 16mm 0.42 BMT					
Wind load Resistance (kPa) - Limit State Design					
End Span			Internal Span		
Span (mm)	SERVICEABILITY (kPa)	STRENGTH (kPa)	Span (mm)	SERVICEABILITY (kPa)	STRENGTH (kPa)
900	1.53	7.05	1200	1.13	6.75
1200	1.26	5.20	1500	0.90	5.26
1500	1.05	3.77	1800	0.71	4.05
1800	0.88	2.60	2100	0.56	3.02

NON-CYCLONIC CORRUGATED 16mm 0.48 BMT					
Wind load Resistance (kPa) - Limit State Design					
End Span			Internal Span		
Span (mm)	SERVICEABILITY (kPa)	STRENGTH (kPa)	Span (mm)	SERVICEABILITY (kPa)	STRENGTH (kPa)
900	1.61	7.64	1200	1.60	7.36
1200	1.26	5.87	1500	1.31	5.91
1500	0.98	4.49	1800	1.07	4.72
1800	0.76	3.37	2100	0.87	3.72

RAINWATER TABLES

Maximum roof lengths (m) for drainage measured from ridge to gutter, no allowance has been made for penetrations or water diversion.

CROSS SECTIONAL AREA COMPARISON PER PROFILE

EFFECTIVE CROSS-SECTIONAL AREA (m ² / m)	
Corrugated 16mm	1.249 x 10-3
True Oak 21mm	2.520 x 10-3
True Oak 'Super 5'	6.416 x 10-3
Rev5	11.85 x 10-3
Rev5 Plus	15.29 x 10-3
RevKlip 700	13.91 x 10-3
RevSpan 700	4.589 x 10-3

CORRUGATED 16mm - RAINFALL CAPACITY

RAINFALL CAPACITY (mm/hr)						
ROOF SLOPE (DEGREES)	150	200	250	300	350	400
5	21	15	12	10	8	7
7.5	24	17	14	11	9	8
10	27	19	15	13	11	10

RELATIVE DISCHARGE X 10-6m³ / s / m PER PROFILE

SLOPE (DEGREES)	CORRUGATED 16mm	TRUE OAK 21mm	TRUE OAK 'SUPER 5'	REV5	REV5 PLUS	REVKLIP 700	REVSPAN 700
1	103.3	286.1	1227.1	4018.5	5932.9	4974.0	1034.3
2	146.1	404.6	1736.2	5682.9	8390.4	7034.3	1462.8
5	231.0	639.8	2754.2	8985.6	13266.5	11122.3	2312.9
10	326.8	904.8	3882.4	12707.5	18761.6	15729.3	3270.9
15	400.2	1108.1	4752.9	15563.5	22978.2	19264.5	4006.0

RAINWATER INTENSITY BY LOCATION

RAINFALL INTENSITY BY LOCATION (mm / hr)		
Average recurrence (years)		
Locality	Once in 20	Once in 100
AUSTRALIAN CAPITAL TERRITORY		
Canberra	143	193
NEW SOUTH WALES		
Albury	139	180
Broken Hill	143	219
Newcastle	226	316
Sydney	200	262
NORTHERN TERRITORY		
Alice Springs	166	239
Darwin	233	274
QUEENSLAND		
Brisbane	234	305
Cairns	229	278
Mackay	250	316
Townsville	235	300

RAINFALL INTENSITY BY LOCATION (mm / hr)		
Average recurrence (years)		
Locality	Once in 20	Once in 100
SOUTH AUSTRALIA		
Adelaide	125	187
Gawler	110	158
Mt Gambier	103	144
Murray Bridge	120	178
Yorke town	155	166
TASMANIA		
Hobart	85	116
Launceston	90	121
VICTORIA		
Ballarat	131	188
Geelong	102	144
Melbourne	132	187
Mildura	142	218

RAINFALL INTENSITY BY LOCATION (mm / hr)		
Average recurrence (years)		
Locality	Once in 20	Once in 100
WESTERN AUSTRALIA		
Albany	125	178
Broome	232	287
Bunbury	147	199
Geraldton	138	193
Perth	130	172

*Rainwater Intensity Data obtained from the National Construction Code and the Bureau of Meteorology.

Masses

UniCote® Steel

	0.35 BMT	0.42 BMT	0.48 BMT	0.60 BMT
kg/lm	2.79	3.36	3.76	4.55
kg/m2	3.67	4.40	4.93	5.97

UniZinc® A2150

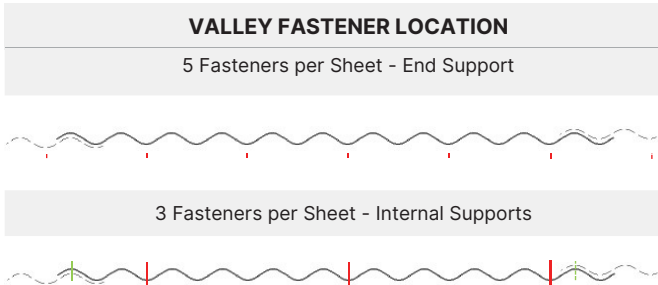
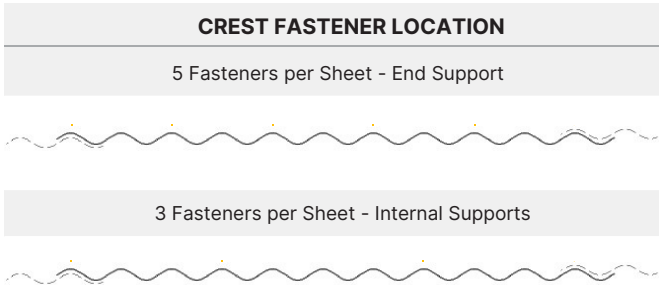
	0.35 BMT	0.42 BMT	0.48 BMT	0.60 BMT
kg/lm	2.70	3.22	3.66	4.48
kg/m2	3.55	4.22	4.81	5.88

HERITAGE GALVANISED

	0.42 BMT	0.48 BMT
kg/lm	3.72	4.55
kg/m2	4.88	5.97

FANSTENER SPACING NON-CYCLONIC

As per NCC ABCB Housing Provisions Table 7.2.5, maximum roof lengths (m) for drainage measured from ridge to gutter, no allowance has been made for penetrations or water diversion.



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.

SUGGESTED NON-CYCLONIC PIERCE FIXING

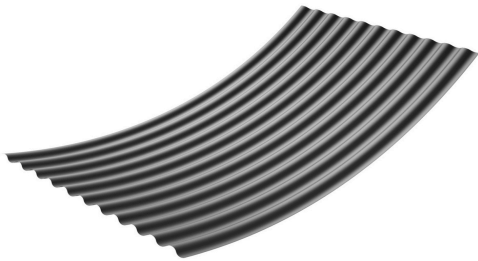
SUGGESTED CORRUGATED 16mm NON CYCLONIC PIERCE FIXING				
TYPE	FIXING TO STEEL (UP TO 1.9mm)	FIXING TO STEEL (2.0mm - 3.5mm)	FIXING TO METAL BATTENS (0.55 - 1.0mm)	FIXING TO TIMBER
Crest Fixed	12-14×35mm Metal Tek	Self Drilling 12×55mm Hex Head HiGrip w/- Seal	M6-11×50mm Roof Zips	M6-11×50mm Roof Zips
Valley Fixed	M6-11×25mm or 10-16×16mm Metal Tek Hex Head with Seal		M6-11×25mm or 10-16×16mm Metal Tek HexHead with Seal	M6-11×25mm Hex Head with Seal or T17×25mm Hex Head

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

INSULATION OPTIONS

Roof Blanket with a thickness up to 100mm can be installed under Corrugated 16mm without the requirement of a thermal spacer, the length of the fasteners may have to increase to compensate for the thickness of the insulation.
Noting the energy efficiency requirements of non-residential buildings may call for a thermal spacer on blanket of all sizes, this is governed by Section J of the National Construction Code.

MECHANICAL CURVING



Corrugated 16mm can be mechanically curved in the factory, however the following should be noted:

- Cover is 762mm
- Minimum Radius of 500mm

STANDARD SPECIFICATION

UniZinc®

Steel with an Aluminium Zinc Magnesium Alloy Coated Steel Coating. Substrate compliance S 1397:2021.

SUBSTRATE	Aluminium Zinc Magnesium Alloy Coated Steel - AS 1397:2021
COATING	AM125 = 125g per m2 Minimum Metallic Coating Mass

UniCote® Select, UniCote® LUX

Relevant for UniCote® Select and UniCote® Lux steel products.

Steel with a Zinc / Aluminium / Magnesium Alloy Coated Steel. Conforms to AS/NZS 2728:2013.

SUBSTRATE	Hot-dipped Zinc / Aluminium / Magnesium Alloy Coated Steel. Alloy coating weight; 150gm/m2.
PRE-TREATMET	Corrosion resistant conversion coating
PRIMER COAT	Flexible corrosion resistant primer. Nominal film thickness is 7µms ± 1µms on the top side and 5µms ± 1µms on the reverse
FINISH COAT	Super Advanced Durable Polyester coating (SADP). Nominal film thickness 18µms ± 2µms.
BACKING COAT	Grey polyester wash coat. Nominal thickness is 5µms ± 1µms.
PROTECTIVE FILM	Available on Request for UniCote® LUX

UniCote® Coastal

Relevant for UniCote® Coastal steel products.

Steel with a Zinc / Aluminium / Magnesium Alloy Coated Steel. Conforms to AS/NZS 2728:2013.

SUBSTRATE	Hot-dipped Zinc / Aluminium / Magnesium Alloy Coated Steel. Alloy coating weight; 210gm/m2.
PRE-TREATMET	Corrosion resistant conversion coating
PRIMER COAT	Flexible corrosion resistant primer. Nominal film thickness is 7µms ± 1µms on the top side and 5µms ± 1µms on the reverse
FINISH COAT	Super Advanced Durable Polyester coating (SADP). Nominal film thickness 18µms ± 2µms.
BACKING COAT	Grey polyester wash coat. Nominal thickness is 5µms ± 1µms.

Testing

The Corrugated 16mm has been tested to the following standards:

- AS 1562.1-2018 Design and installation of sheet roof and wall cladding.
- AS 4040-1992 Methods of testing sheet roof and wall cladding - Part 0: Introduction, list of methods, and general requirements.
- AS 4040-1992 Methods of testing sheet roof and wall cladding - Part 2: Resistance to wind pressures for non-cyclone regions.
- The Corrugated 16mm is manufactured to AS 1397, and AS 2728 standards.
- The Corrugated 16mm requires installation to follow the AS1445 and AS1565 standards following HB39 code.