



**Revolution
Roofing**
STEEL YOURSELF

TRUE OAK 'SUPER 5'

REVSPEC

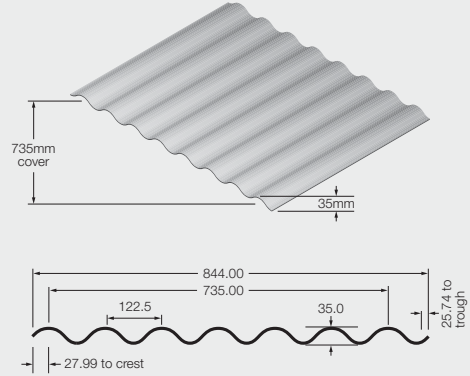
REVSPEC

V14.0

True Oak 'Super 5'

OVERVIEW

| | |
|----------------------|-----------------------|
| Minimum Roof Pitch | 2 Degrees |
| Maximum Sheet Length | 24 Metres |
| Spring Curving | 25m Minimum Radius |
| Mechanical Curving | 2000mm Minimum Radius |
| Watertight Guarantee | 20 Years |



PROFILE AVAILABLE

| NSW | NT | QLD | TAS | SA | VIC | WA | CYCLONIC |
|-----|----|-----|-----|----|-----|----|----------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

AVAILABLE FINISHES

| RevZinc AM125 | HERITAGE GALVANISED | NEXTEEL | MATT FINISH | NextSTAR™ ULTRA | METALLIC | NextREME™ Aluminium | CORTEN | COPPER | STAINLESS STEEL |
|---------------|---------------------|---------|-------------|-----------------|----------|---------------------|--------|--------|-----------------|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| PERFORATED | FENCING | VICTORY | | | | | | | |
| ✓ | | | | | | | | | |

GAUGES AVAILABLE

| STEEL | | | | ALUMINIUM | | |
|-------|------|------|------|-----------|------|------|
| 0.32 | 0.35 | 0.42 | 0.48 | 0.60 | 0.70 | 0.80 |
| | | | ✓ | ✓ | ✓ | |

SPAN TABLE NON-CYCLONIC ROOF SHEETING

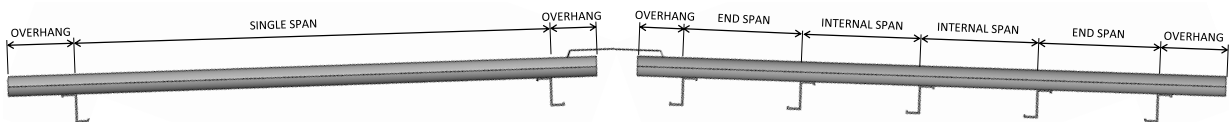
| ROOF SPAN | 0.48 BMT | 0.60 BMT |
|----------------------|----------|----------|
| Single Span | 1200 | 1200 |
| End Span | 1800 | 1800 |
| Internal Span | 2400 | 2400 |
| Unstiffened Overhang | 300 | 300 |
| Stiffened Overhang | 500 | 500 |

SPAN TABLE NON-CYCLONIC WALL CLADDING

| WALL SPAN | 0.48 BMT | 0.60 BMT |
|------------------------|----------|----------|
| End Span | 2700 | 2700 |
| Internal Span | 2700 | 2700 |
| Unsupported Cantilever | 400* | 400* |

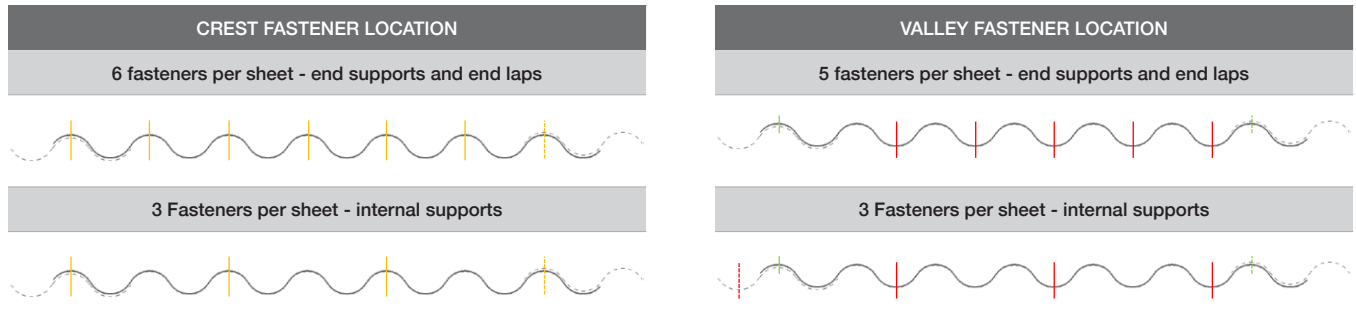
* Rivet required, securing the overlap, 50mm from the end of the sheet

SPAN DEFINITIONS



True Oak 'Super 5'

FASTENER SPACING NON-CYCLONIC



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 True Oak 'Super 5' 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 | Self Drilling 12 x 55mm Hex Head HiGrip w/- Seal | Self Drilling 12 x 55mm Hex Head HiGrip w/- Seal | M6-11 x 65mm Roof Zips | M6-11 x 65mm Roof Zips |
| Valley Fixed | M6- 11x25mm or 10-16 x 16mm Metal Tek Hexagon Head with Seal | | M6- 11x25mm or 10-16 x 16mm Metal Tek Hexagon Head with Seal | M6-11 x 25mm hexagon head with seal or T17 x 25mm Hex Head |

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

INSULATION

Roof Blanket with a thickness up to 100mm can be installed under True Oak 'Super 5' 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.

MASSES

Nexteel™

| | 0.48 BMT | 0.60 BMT |
|-------|----------|----------|
| kg/lm | 3.94 | 4.81 |
| kg/m2 | 5.36 | 6.68 |

RevZinc AM125

| | 0.48 BMT | 0.60 BMT |
|-------|----------|----------|
| kg/lm | 3.86 | 4.74 |
| kg/m2 | 5.25 | 6.58 |

Heritage Galvanised

| | 0.48 BMT | 0.60 BMT |
|-------|----------|----------|
| kg/lm | 4.39 | 5.26 |
| kg/m2 | 5.97 | 7.31 |

MECHANICAL CURVING – TRUE OAK 'SUPER 5'

True Oak 'Super 5' can be mechanically curved in the factory however the following should be noted:

- Cover is 720mm
- Concave and Convex shapes only
- Minimum radius of 2000mm
- Bull nose curving is not available



True Oak 'Super 5'

NON-CYCLONIC SERVICEABILITY AND STRENGTH

| Non-Cyclonic True Oak 'Super 5' 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) |
| 1200 | 2.04 | 6.08 | 1500 | 2.06 | 6.16 |
| 1500 | 1.66 | 4.60 | 1800 | 1.74 | 4.88 |
| 1800 | 1.35 | 3.66 | 2100 | 1.47 | 4.02 |
| 2100 | 1.08 | 3.02 | 2400 | 1.24 | 3.39 |
| 2400 | 0.86 | 2.56 | 2700 | 1.04 | 2.92 |

* Spans exceed trafficable point load limits.

DESIGN PARAMETERS

| | |
|-------------------------|--------------|
| Region | A |
| Terrain Category | 2 |
| Height | 10 metre |
| Vz | 45 m/sec |
| Q*u,s | 0.83 kPa |
| Cpe | +0.7 / -0.65 |
| Cpi | -0.2 / +0.2 |

| INTERNAL Bay | END Bay |
|------------------|--------------------------|
| $K_1 = 1.0$ | $K_1 = 2.0$ |
| $\sum C = -0.85$ | $\sum C = -1.50$ |
| | $P_u = 1.82 \text{ kPa}$ |
| | $P_s = 0.74 \text{ kPa}$ |

TESTS CARRIED OUT IN ACCORDANCE WITH:

AS 1562.1:2018 Design and Installation of Sheet Roof and Wall Cladding - Metal

AS 4040:1992 Methods of Testing Sheet roof and wall cladding

TESTING STATIONS USED TO CONDUCT TESTING:

James Cook University

University of South Australia

True Oak 'Super 5'

RAINWATER TABLES

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

True Oak 'Super 5' - Rainfall Capacity

| Roof Slope (degrees) | Rainfall Capacity (mm/hr) | | | | | |
|----------------------|---------------------------|-----|-----|-----|-----|-----|
| | 150 | 200 | 250 | 300 | 350 | 400 |
| 2 | 57 | 43 | 36 | 30 | 23 | 23 |
| 3 | 68 | 51 | 41 | 34 | 29 | 26 |
| 5 | 74 | 63 | 49 | 41 | 37 | 31 |
| 10 | 110 | 86 | 68 | 57 | 52 | 43 |

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 |

| Relative Discharge x 10 ⁻⁶ m ³ / s / m | | | | | | | |
|--|-----------------|---------------|--------------------|---------|-----------|-------------|-------------|
| Slope | 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 |

Rainfall Intensity per 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 |
| Yorketown | 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 |

True Oak 'Super 5'

STANDARD SPECIFICATION

RevZinc AM125

Steel base thickness {0.48 BMT} with an aluminium / zinc / magnesium alloy coating complying with AS1397-2011 (550 MPa minimum yield strength, 125 grams per square metre minimum metallic coating mass)

Steel base thickness {0.60 BMT} with an aluminium / zinc / magnesium alloy coating complying with AS1397-2011 (300 MPa minimum yield strength, 125 grams per square metre minimum metallic coating mass)

Heritage Galvanised Z600

Heritage Galvanised is a {0.48} Z600 hot dipped zinc-coated structural steel complying with AS1397-2001 G550 (550MPa minimum yield stress), 600 grams per square metre minimum coating mass

Heritage Galvanised is a 0.60 Z600 hot dipped zinc-coated structural steel complying with AS1397-2001 G300 (300MPa minimum yield stress), 600 grams per square metre minimum coating mass

Nexteel™ Standard Painted Steel, Matt Finish, Metallic

Steel base metal thickness is {0.48 BMT} with an aluminium / zinc alloy coating substrate complying to AS1397-2011 and paint coating complying to AS/NZS 2728 Type 4 (550 MPa minimum yield Strength)

Steel base metal thickness is {0.60 BMT} with an aluminium / zinc alloy coating substrate complying to AS1397-2011 and paint coating complying to AS/NZS 2728 Type 4 (300 MPa minimum yield Strength)

PAINT OPTIONS

NextONE™

| | |
|--|--|
| Substrate: | Zinc Aluminium Alloy Coated Steel |
| Coating: | 150 grams per m2 minimum metallic coating mass, nominally 75 gram per side |
| Primer: | Polyester |
| Paint: | Polyester topcoat nominally 25 microns |
| Additional Performance: | Enhanced UV stability |
| Protective Plastic Coating (if required): | 75 microns thick |

NextSTAR™

| | |
|--|--|
| Substrate: | Zinc Aluminium Alloy Coated Steel |
| Coating: | AZ150 = 150 grams per m2 minimum metallic coating mass, nominally 75 gram per side |
| Primer: | Polyester |
| Paint: | Silicone Modified Polyester topcoat guaranteed thickness of 25 microns |
| Additional Performance Benefits: | Double UV stability and Ultra-Cool cool roof pigments |
| Protective Plastic Coating (if required): | 75 microns thick |

NextFACTOR™ XL

| | |
|--|--|
| Substrate: | Zinc Aluminium Alloy Coated Steel |
| Coating: | AZ150 = 150 grams per m2 minimum metallic coating mass, nominally 75 gram per side |
| Primer: | Urethane |
| Paint: | PVDF 70% topcoat guaranteed thickness of 25 microns |
| ColourLock Clear Coating: | XL Clear DFB nominally 13um |
| Additional Performance Benefits: | Double UV stability and Ultra-Cool cool roof pigments |
| Protective Plastic Coating (if required): | 75 microns thick |

True Oak 'Super 5'

PAINT OPTIONS (CONT.)

NextSTAR™ ULTRA

| | |
|--|---|
| Substrate: | Zinc Aluminium Alloy Coated Steel |
| Coating: | AZ200 = 200 grams per m2 minimum metallic coating mass, nominally 100 gram per side |
| Primer: | Polyester |
| Paint: | Silicone Modified Polyester with a topcoat guaranteed thickness of 25 microns |
| Additional Performance Benefits: | Double UV stability and Ultra-Cool cool roof pigments |
| Protective Plastic Coating (if required): | 75 microns thick |

NextREME SE™

| | |
|--|---|
| Substrate: | Aluminium |
| Alloy: | 5052 suitable for extreme coastal environments |
| Primer: | Urethane |
| Paint: | Silicone Modified Polyester with a topcoat guaranteed thickness of 25 microns |
| Additional Performance Benefits: | Double UV stability and Ultra-Cool cool roof pigments |
| Protective Plastic Coating (if required): | 75 microns thick |

NextREME XC™

| | |
|--|--|
| Substrate: | Aluminium |
| Alloy: | 5052 suitable for extreme coastal environments |
| Primer: | Urethane |
| Paint: | PVDF 70% with a topcoat guaranteed thickness of 25 microns |
| ColourLock Clear Coating: | XL Clear DFB nominally 13um |
| Additional Performance Benefits: | Double UV stability and Ultra Cool roof pigments |
| Protective Plastic Coating (if required): | 75 microns thick |

ISO 9223:2012

Corrosion of metals and alloys — Corrosivity of atmospheres — Classification, determination and estimation.

MARINE CLASSIFICATION

Select from the following exposure severity category:

Class 1 (ISO 9223 Category C1):

Rural areas far inland and remote from marine or industrial influence

Class 2 (ISO 9223 Category C2):

Inland areas remote from the coast or areas of pollution

Class 3 (ISO 9223 Category C3):

Coastal areas with low salinity

Class 4 (ISO 9223 Category C4):

Severe marine which begins between 100m - 400m from breaking surf or 100m from calm marine.

Class 5 (ISO 9223 Category C5):

Very severe marine: Close to breaking surf, typically 0 to 100m from breaking surf/exposed marine.

Class CX: Extreme (as per AS 4312:2019):

Rare classification, reserved for offshore structures and the most severe sea conditions