



CorroMax™

Technical Guide

Fielders is again giving our customers even more choice with the introduction of two new corrugated styles...

Introducing CorroMax™. Available in 21mm and 35mm corrugated profiles, the benefits of CorroMax™ go beyond aesthetics. The deeper ribbed profiles mean that CorroMax™ is stronger than traditional corrugated steel profiles giving it greater spanning capacity and resistance to damage.

The wider ribs also give CorroMax™ greater water carrying capacity meaning it can be used at lower pitches.



Figure 1a: CorroMax™ 21



Figure 1b: CorroMax™ 35

Material Specifications

CorroMax™ 21				
Property		0.40 BMT	0.48 BMT	Notes
Mass/Unit Length (kg/m)	COLORBOND® steel	3.4	4.0	1000/(m/tonne)
Mass Unit Area (kg/m ²)	COLORBOND® steel	4.4	5.2	1000/(m Mass/profile width)
Minimum Yield Strength		G550		
Coverage (mm)		762		
Tolerance		± 10mm length; ±4mm width		

CorroMax™ 35				
Property		0.48 BMT		Notes
Mass/Unit Length (kg/m)	COLORBOND® steel	4.0		1000/(m/tonne)
Mass Unit Area (kg/m ²)	COLORBOND® steel	5.5		1000/(m Mass/profile width)
Minimum Yield Strength		G550		
Coverage (mm)		724		
Tolerance		± 10mm length; ±4mm width		

Note 1: ZINCALUME® aluminium/zinc/magnesium alloy-coated steel complying with AS1397:2011 G550 (550 MPa minimum yield stress), AM125 (125g/m²).

Note 2: The COLORBOND® steel is pre-painted steel with the paint complying with AS/NZS 2728:2013 and the steel base is aluminium/zinc/magnesium alloy coated steel complying with AS 1397:2011 G550 (550 MPa minimum yield stress), AM100 (100 g/m²).

Note 3: COLORBOND® steel base metal thicknesses are 0.40 or 0.48mm.

Note 4: Where ZINCALUME® steel/COLORBOND® steel are recommended to be used in an environment then the ZINCALUME® steel/COLORBOND® steel provides a minimum of twice the life of conventional galvanised steel in the same environment for the same coating thickness.

Note 5: Both COLORBOND® steel Metallic and COLORBOND® Ultra steel have minimum order quantities and longer lead times, and are subject to availability.

Note 6: The Heritage Galvanised steel complying with AS 1397:2011 G550 (550 MPa minimum yield stress), Z600 (600 g/m²).

Available Colours

CorroMax™ is available in the full range of COLORBOND® steel colours including; COLORBOND® Metallic steel, COLORBOND® Ultra steel, COLORBOND® steel Matt, ZINCALUME® steel and Heritage Galvanised steel.

Maximum Recommended Span (mm) – Non-Cyclonic Regions

Span Type	CorroMax™ 21				CorroMax™ 35	
	0.40 BMT		0.48 BMT		0.48 BMT	
	Roof	Wall	Roof	Wall	Roof	Wall
Single Span	750	1800	950	1800	1300	2100
End Span	950	2400	1500	2700	1600	2700
Internal Span	1350	2400	1900	2700	2400	2700
Unstiffened Eaves Overhang	150	150	200	150	200	200
Stiffened Eaves Overhang	400	N/A	450	N/A	600	N/A

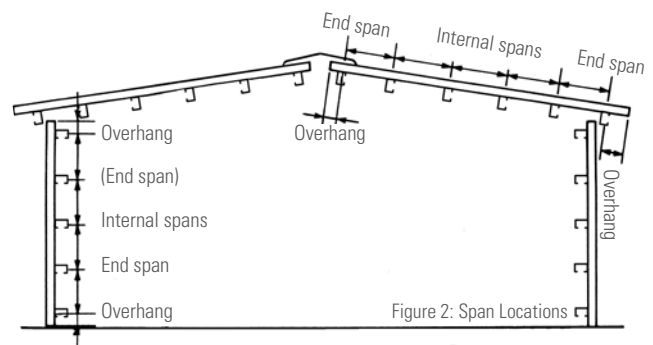


Figure 2: Span Locations

NOTE: The maximum recommended support spacings are based on testing in accordance with AS1562.1:1992, AS4040.1:1992 and AS4040.2:1992. Roof spans consider both resistance to wind pressure and light roof traffic (traffic arising from incidental maintenance). Wall spans consider resistance to wind pressure only. The pressure considered is based on buildings up to 10m high in Region B, Terrain Category 3, $M_s=0.85$, $M_i=1.0$, $M_t=1.0$ with the following assumptions made:
 ROOFS: $C_{pi}=+0.20$, $C_{pe}=-0.90$, $K_I=2.0$ for single and end spans, $K_I=1.5$ for internal spans.
 WALLS: $C_{pi}=+0.20$, $C_{pe}=-0.65$, $K_I=2.0$ for single spans and end spans, $K_I=1.5$ for internal spans.
 These spacings may vary by serviceability and strength limit states for particular projects. Table data are based on supports of 1mm BMT.

Pierce Fixing – Non-Cyclonic

CorroMax™ 21

Fixing Supports	Crest Fixing	Valley Fixing (Wall only)	Side Lap Fixing
Fix to Steel Single and lapped steel thickness ≥ 0.55 up to 1.0mm BMT	Roof Zips M6-11x50	10-16x16, Metal Tekes, HH 10-16x25 Designer Head Roof Zips M6-11x25	(if required) 10-16x16, Metal Tekes, HH Roof Zips M6-11x25 10-16x25 Designer Head Sealed blind rivet $\phi 4.8$ mm aluminium
Fix to Steel Single steel thickness ≥ 1.0 mm BMT up to 3.0mm BMT	12-14x35, Metal Tekes HG, HH AutoTekes 12.5-14x39	10-16x16, Metal Tekes, HH 10-16x25 Designer Head	
Fix to Steel Total lapped thickness ≥ 1.00 BMT up to 3.8mm BMT	12-14x35, Metal Tekes HG, HH AutoTekes 12.5-14x39	10-16x16, Metal Tekes, HH	
Fix to Timber Hardwood J1-J3	12-11x50, Type 17 HG, HH	10-12x25, Type 17, HH 10-16x25 Designer Head 12-11x25, Type 17, HH	
Fix to Timber Softwood J4	12-11x50, Type 17 HG, HH Roof Zips M6-11x50 HG, HH	10-12x30, Type 17, HH 12-11x25, Type 17, HH 10-16x25 Designer Head Roof Zips M6-11x25	

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Fixing Supports	Crest Fixing	Valley Fixing (Wall only)	Side Lap Fixing
Fix to Steel Single and lapped steel thickness ≥ 0.55 up to 1.0mm BMT	Roof Zips M6-11x65	10-16x16, Metal Tekes, HH 10-16x25 Designer Head Roof Zips M6-11x25	(if required) 10-16x16, Metal Tekes, HH Roof Zips M6-11x25 10-16x25 Designer Head Sealed blind rivet $\phi 4.8$ mm aluminium
Fix to Steel Single steel thickness ≥ 1.0 mm BMT up to 3.0mm BMT	12-14x68, Metal Tekes HG, HH	10-16x16, Metal Tekes, HH 10-16x25 Designer Head	
Fix to Steel Total lapped thickness ≥ 1.00 BMT up to 3.8mm BMT	12-14x68, Metal Tekes HG, HH	10-16x16, Metal Tekes, HH	
Fix to Timber Hardwood J1-J3	12-11x65, Type 17 HG, HH	10-12x25, Type 17, HH 10-16x25 Designer Head 12-11x25, Type 17, HH	
Fix to Timber Softwood J4	12-11x65, Type 17 HG, HH Roof Zips M6-11x65 HG, HH	10-12x30, Type 17, HH 12-11x25, Type 17, HH 10-16x25 Designer Head Roof Zips M6-11x25	

Notes:

- For other steel thicknesses not specified please seek advice from screw manufacturer.
- Values given are: gauge/threads per inch/ lengths (mm). HH = Hex. Head, WH = Wafer Head, HG = Hi-Grip.

3. Care is required during installation to prevent stripping of thin material (Single ply).

4. Screw specification as above or equivalent fastener.

5. All screws with EPDM sealing washer.

Specifying Fielders

Please refer to the Specifying Fielders Online Portal www.specifying.fielders.com.au for Wind Pressure Capacities for use in Cyclonic conditions and installation details for CorroMax™.

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