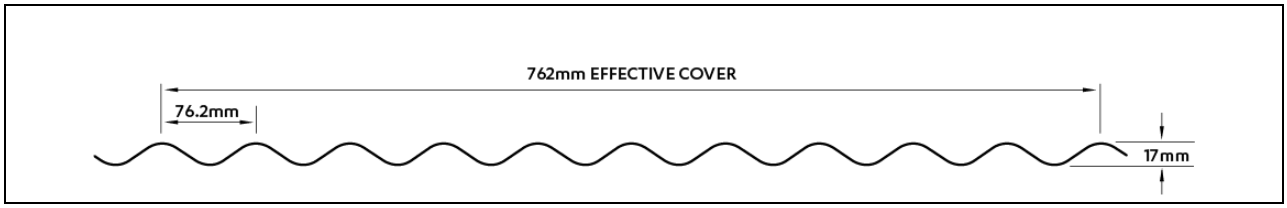
CORRUGATE

PROFILED METAL ROOFING & WALL CLADDING



DESCRIPTION

Corrugate is a proprietary metal profile roofing and wall cladding system manufactured by long-run roll forming processes and installed with screw fasteners to supports. It can be formed from a variety of substrates to meet durability, formability, and aesthetic requirements. This BPIS includes the profile along with associated fasteners and flashings supplied by the manufacturer.

SCOPE OF USE

Generally used for roofing and wall cladding, mansards, ceilings, fences and decorative screens, or any other cladding application.

LIMITATIONS

Material selection must be commensurate with ambient environmental conditions. Contact with corrosive and incompatible materials, prolonged exposure to damp or corrosive internal environments, or excessive periods of wet stacking must be avoided.

Minimum Pitch 8°

MATERIALS

1. Metallic coated grade G300/G550 steel complying with AS 1397 type AZ 150 coating
2. Prepainted grade G300/G550 steel complying with AS 1397 coated in accordance to AS/NZS 2728 to Type 4 (Colorsteel Endura/Colorcote Zinacore) or Type 6 (Colorsteel Maxx/Colorcote MagnaFlow) specification.
3. Unpainted or Prepainted H34/H36 aluminium (Colorsteel Altimate/Colorcote Alumiguard)

INSTALLATION

Installation should be carried out by a suitably qualified practitioner in accordance with manufacturer's recommendations and the Metal Roofing and Wall Cladding Code of Practice.

36 Franklin Road, Pukekohe
(09)238 9249- info@franklinroofing.co.nz

MAINTENANCE

Maintenance must be carried out in accordance with the manufacturer's recommendations. Unwashed areas must be regularly maintained to avoid the build-up of salt and debris.

COMPLIANCE WITH NZ BUILDING CODE (NZBC)

Corrugate and associated flashings made from equivalent material, used in combination with fasteners, underlays and clear sheeting accredited by NZMRM as complying to their product performance standards, will contribute to meeting the following performance requirements of the NZBC:

NZBC B1 Structure

Load/span testing and analysis in accordance with procedures described in Metal Roofing and Wall Cladding Code of Practice have led to the development of the following load span table

Maximum Spans for NZS3604 Wind Zones						
BMT	Tensile Strength	Wind Zone	Roofing		Wall Cladding	
			End	Internal	End	Internal
0.40	G550	Low/Medium	800	1200	1350	1800
		High	800	1200	1150	1500
		Very High	800	1200	1050	1400
		Extra High	800	1200	900	1200
0.55	G550	Low/Medium	1150	1600	1600	2100
		High	1150	1600	1350	1800
		Very High	1150	1600	1200	1600
		Extra High	1150	1600	1150	1500

Fastener requirements in accordance with NZS3604:2011, using 12g screws coated to NZMRM Fastener Standard Class 5

	Roofing - Rib Fixed			Wall Cladding – Pan Fixed	
	Steel Based	Alu Based		Steel Based	Alu Based
Timber	12x55 Timbertite	12x55 Stainless Steel Timbertite with profile washer and EPDM seal	Non Cavity	12x25 Timbertite	12x25 Stainless Steel Timbertite
			Cavity	Fixing must have min. penetration of 3x threads + height of rib. Corrugate = 12x55 Timbertite	Fixing must have min. penetration of 3x threads + height of rib. Corrugate = 12x55 Stainless Steel Timbertite
Steel up to 4.5mm	12x55 Steeltite	12x55 Stainless Steel Timbertite with profile washer and EPDM seal	Non Cavity	12x20 Steeltite	12x25 Stainless Steel Steeltite
			Cavity	Fixing must have min. penetration of 3x threads + height of rib. Corrugate = 12x55 Steeltite	Fixing must have min. penetration of 3x threads + height of rib. Corrugate = 12x55 Stainless Steel Steeltite

For buildings designed to AS/NZS 1170, refer to manufacturer

NZBC B2 Durability

Durability in accordance with Table 20 E2/AS1 Sea Spray Exposure B Low, C Medium, D High, E Severe Marine		
Product	Rain Washed Roofs	Walls and Unwashed Areas
Zincalume or Galvanised	B, C	B
Colorsteel Endura/ Colorcote Alumiguard	B, C, D	B, C
Colorsteel Maxx/Colorcote MagnaFlow	B, C, D, E	B, C, D
Aluminium	B, C, D, E	B, C, D, E

NZBC C Fire

Colorsteel Endura and Colorsteel Maxx are rated as a Group 1-S material when tested in accordance with ISO 5660:2002 Part 2

NZBC E1 Surface Water

Capacity Calculation in accordance with Metal Roofing and Wall Cladding Code of Practice calculators

Minimum Pitch 8^0, rainfall intensity 150 mm/hr		
Maximum Run	22m	
Catchment area of spreader	$17.65m^2$	10 m run, 4 holes in spreader
Catchment behind penetration	$1.8m^2$	10m run, discharging each side of penetration

NZBC E2 External Moisture

Flashing details should be in accordance with Franklin Long Roofing design details, Metal Roofing and Wall Cladding Code of Practice, E2/AS1, or E2/AS4. Alternative details complying with the "4 D's" (Deflection, Draining, Drying and Durability) will also comply with the performance requirements of NZBC.

NZBC E3 Internal Moisture

When used with an absorbent, permeable underlay complying with NZS 2295:2006, or Dridex pre-adhered fleece, Corrugate will contribute to compliance with NZBC E3.3.1. Ceiling spaces of sarked roofs, skillion roofs, barrel curved roofs, flat roofs and roofs over moisture laden environments must have provision for adequate ventilation.

NZBC F2 Hazardous Building Materials

Corrugate manufactured from metallic coated, prepainted metallic coated or pre-painted aluminium will meet the performance requirements of F2, 2.3.1.

This building product is not subject to a warning or ban under the Building Act 2004

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