2.1.4.14 (a) DIMOND FINELINE PROFILE PERFORMANCE

Cover (mm)	885	1147
Sheet width (mm)	940	1200
Minimum Pitch	Wall cladding only	

All dimensions given are nominal

Sheet Tolerances
Sheet width: ±5mm
Sheet length: +10mm, –0mm. For horizontal wall cladding where notified at time of order of intended use, tighter tolerances can be achieved +3mm, –0mm.

Material Options	Steel	Aluminium
Thickness (BMT) mm	0.55	0.9
Nominal weight / lineal metre (kg/m)	4.27	2.28
Unsupported overhang (mm)	nil	nil

Roll-forming facility at: Auckland

Sheet lengths: Fineline is custom run to order in sheet lengths up to 6 metres long.

2.1.4.14 (b) FINELINE – DETAILED CLADDING DESIGN

Design Criteria for Limit State Capacities.

a) Serviceability Limit State
No deflection or permanent distortion that would cause unacceptable appearance or side lap leakage due to inward or outward wind loads.

b) Ultimate Limit State
No pull through of fixings or fastener withdrawal resulting in sheet detachment due to wind up-lift (outward) loads.

System Design
The span capacity of Fineline is determined by the serviceability requirement for acceptable appearance and should not exceed 300mm.

The ultimate windload should not exceed 3 kPa.

The Fineline profiles are not intended for use as roofing products, and must not be used in situations where foot traffic point loads can be applied.

Fastener Design
Fineline should be screw fixed to either timber or steel framing, or may be nail fixed to timber if not used in an exterior situation exposed to the weather. The use of the appropriate length of 12g screw, or 2.5mm ϕ nail, will ensure failure by fastener pull out will not occur under the load limitation given.

Framing	Fastener Length (mm)	
	Wall Cladding Pan	
	Screw Length* (mm)	Designation
Timber	50	Roofzip M6 x 50mm
Steel	20	Tek - 12 - 14 x 20

* If sarking or insulation is used over the framing, screw length will need to be increased.

For screw size range and fastener / washer assembly refer Section 2.2.3.1.

The Span Capability and Sheet Appearance is based on fasteners at 200mm maximum spacing across the sheet without the use of load spreading washers.

2.1.4.14 (c) SHORT FORM SPECIFICATION – DIMOND METAL WALL CLADDING SYSTEM

(For a full specification please refer to the Full Specification Statement, in Section 4 of this manual.)

The cladding profile will be Fineline. The Cladding Material (1), (2). Thickness (3). The Paint system (4) (only if material is pre-painted). The colour will be Dimond (5).

All flashing, ridge and hip material shall be (6), (2), (4). Thickness (7). (if pre-painted)

(The flashing paint system should be the same as the one chosen for the cladding.)

The primary fasteners shall be (8), material (9). Fastener placement shall be at 200mm maximum spacing across the sheet.

The underlay shall be (10).

All materials used must be compatible with each other. All work is to be carried out by a Dimond Recommended Commercial Installer.

	Choose From:	Reference
1.	Grade G550 (steel), or grade 5052, H26 (aluminium)	2.1.1
2.	zinc / aluminium coated steel sheet (Zincalume) pre-painted steel sheet plain mill finish / embossed aluminium sheet pre-painted aluminium sheet	2.1.1 2.2.1
3.	0.55mm BMT (steel) 0.90mm (aluminium)	2.1.3 2.1.4
4.	ColorCote ZinaCore (steel) ColorCote AlumiGard (aluminium) ColorCote ZinaCore X (steel) ColorCote AlumiGard X (aluminium) Colorsteel Endura (steel) Colorsteel MAXX (steel)	2.1.1 2.2.1
5.	Choose from the Dimond Colour Collection	1.3
6.	Grade G300 (steel) or grade 5052 H34 (aluminium)	2.1.3.6
7.	0.55mm BMT (steel) or 0.90mm (aluminium)	2.1.3.6
8.	Tek 12g x 20mm (Steel Framing) Roofzip M6 x 50mm (Timber Framing)	2.1.4
9.	Climaseal 4	2.1.1
10.	Bitumac 710 or 750 or Thermakraft 213 or Framegard G3 Flamestop 950	2.2.2