



METALCRAFT METDEK 855

PURPOSE

Metalcraft Roofing supply Metalcraft Metdek 855 for use as a roof and vertically laid wall cladding.

EXPLANATION

Metalcraft Metdek 855 is a long-run steel roof and wall cladding with a square, trough profile. It is fabricated from steel manufactured by NZ Steel. The steel is supplied in a range of protective coatings to meet NZ's exposure zones. Metalcraft Metdek 855 is available in the full Colorsteel® range.

Metalcraft Metdek 855 sheets are available in the following NZ Steel branded products:

> Colorsteel® Endura®

> Zincalume®

> Colorsteel® Maxx®

> Metdek 855 is fixed with hidden plastic lugs.

> Galvsteel®

The sheets are available in the following sizes:

> Thickness (mm): 0.40, 0.48 and 0.55

➤ Width (mm): Cover – 855, Sheet – 925.



Figure 1: Profile Dimensions (nominal)



SCOPE AND LIMITATIONS OF USE

Scope	Limitations	
Location		
In all wind zones as defined in NZS 3604:2011 and in all calculated design loads.	 Metalcraft Metdek 855 load spans apply in wind zones up to and including extra high. Where the calculated design loads exceed 2.5kPa the engineer must satisfy themselves that the product, pitch and fixings will meet the conditions. 	
In all climate zones as defined by NZS 3604:2011.	 In exposure Zone D only Colorsteel® Endura® or Colorsteel® Maxx® may be used. For use in "Microclimatic considerations" (as defined in Sec 4.2.4) refer to Metalcraft Roofing. 	
At least 1 m from a relevant or notional boundary		
Building		
On timber or steel structural framing.	➤ Where Metalcraft Metdek 855 is used in an insulated building and in conjunction with stee framing, a thermal break is required.	
In conjunction with a primary structure that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work.	➤ Building height is limited by the Metalcraft Metdek 855 design load span tables (refer to: www.metalcraftgroup.co.nz) or specific engineering, where applicable.	
On buildings no greater than 10 m in building height.		
As a wall cladding.	 A drained and ventilated cavity is always required. Flashings, flexible and rigid building underlays and Metalcraft Metdek 855 fixings must be in accordance with E2/AS1 and/or the NZMRM Code of Practice (V3.0). Contact with other materials must be in accordance with E2/AS1 and NZMRM Code of Practice (V3.0). 	
As a roof cladding	 Metalcraft Metdek 855 lengths ≤40 m must be installed on a roof with a minimum pitch of 3°. Metalcraft Metdek 855 lengths >40 m and <60 m must be installed on a roof with a minimum pitch of 4°. A potable water collection system may be installed. Flashings, flexible and rigid building underlays and Metalcraft Metdek 855 fixings must be in accordance with E2/AS1 and NZMRM Code of Practice (V3.0). Contact with other materials must be in accordance with E2/AS1 and NZMRM Code of 	

VERSION:



PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Metalcraft Roofing requirements, Metalcraft Metdek 855 will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE		
	Compliance statement ¹	Demonstrated by	
B1 Structure B1.3.1, B1.3.2, B1.3.3 (a, b, c, d, g, i)	ACCEPTABLE SOLUTION B1/AS1	▶ AS/NZS 1397:2011.▶ AS/NZS 1170:2002 (for span tables).	
B2 Durability B2.3.1 (b), B2.3.2 (b)	ACCEPTABLE SOLUTION B2/AS1	 Coated in accordance with AS/NZS 2728:2013 (cited in E2/AS1). Plastic lugs are combustible. 	
C3 Fire Affecting Areas Beyond the Fire Source C3.4 (a), C3.7 (a)	ACCEPTABLE SOLUTION C/AS1 C/AS2 1st edition, June 2019	 Steel is non-combustible. BRANZ (FH 6102-TT, dated 3/1/2017) (Material Group 1-S). BRANZ is accredited to perform ISO5660 test. 	
E2 External Moisture E2.3.1, E2.3.2, E2.3.7 (a, b, c)	ACCEPTABLE SOLUTION	> NZMRM Code of Practice (V3.0).	
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	 Coating system is inert once dry. Colorsteel® safety data sheet. 	

^{1.} The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

Other performance	BASIS OF STATEMENT	
statement	Performance statement	Demonstrated by
Metalcraft Metdek 855 will not contaminate potable water	AS/NZS 4020:2005	➤ Claimed by manufacturer: NZ Steel.
		▶ BRANZ statement that metal roof suitable refer to www.level.org. nz/water/water-supply/mains-or-rainwater/harvesting-rainwater/

NZ STEEL ASSURANCE

As the manufacturer of the steel, from which Metalcraft Metdek 855 is fabricated, NZ Steel provides assurance that the steel:

- > has been manufactured in accordance with AS 1397:2001
- ▶ is coated in accordance with AS/NZS 2728:2013 or galvanized in accordance with AS/NZS 2312.2:2014.

NZ Steel has established an Environmental Management System certified to ISO14001.

For more information on the specific exposure zones and environmental impacts of the product refer to www.colorsteel.co.nz.

SOURCES OF INFORMATION

- **▶** AS/NZS 1170:2002. Structural design actions.
- **▶** AS/NZS 1397:2001. Steel sheet and strip—Hot-dip zinc coated or aluminium/zinc-coated.
- ➤ AS/NZS 2728:2013. Prefinished/pre-painted sheet metal products for interior and exterior building applications.
- ▶ BRANZ www.level.org.nz/water/water-supply/mains-or-rainwater/ harvesting-rainwater/.
- > NZ Metal Roof Manufacturers (NZMRM): Code of Practice (V3.0).
- **>** NZ Steel. Technical Bulletin [August 2016]. Fire Testing. Fire Testing of Coated Steel Products.

VERSION:	DATE:	Signed on behalf of Metalcraft Roofing:		
Note: Uncontrolled in printed format.				
NAME:	Frances Charles	By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.		
POSITION:	National Sales & Marketing Mgr			

For more information visit www.metalcraftgroup.co.nz