

METALCRAFT METAL TILES

PURPOSE

Metalcraft Roofing supplies Metalcraft Metal Tiles, flashings and trims for use as roof tiles on lightweight roofs.

EXPLANATION

Metalcraft Metal Tiles are fabricated from Colorsteel® Endura® in 0.39 G300 and 0.55 G300 gauge.

The tiles are fabricated from pre-coated steel supplied by NZ Steel. Design and installation information is supplied by Metalcraft Roofing.

They are available as pressed Colorsteel or stone chip coated and weigh:

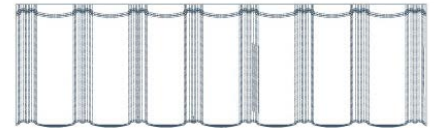
- 2.1 kg (without chip coating)
- 3 kg (chip coated), available only in the Chateau profile
- 3.3 kg (chip coated), available in the Shake and Modena profiles.

Metalcraft Metal Tiles come in the following dimensions:

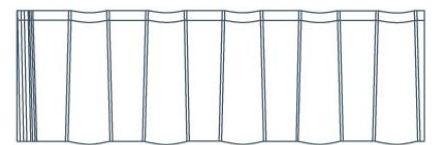
Profile	Tiles per m ²	Overall length mm	Effective cover mm	Width of cover m
Modena Metal Tile	2.26	1300	1210	370
Chateau Metal Tile	2.1	1371	1300	370
Shake Metal Tile	2.1	1360	1295	368

Metalcraft Roofing supplies the following flashings and trims:

- Angle ridge trim
- Barrel trim
- Folded flashings – ridge/hip, ridge, barrel cap, valley, barge and gable, “Z” flashing.



Chateau



Modena



Shake

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location	
In any wind zone or calculated design load.	➤ Above extra high wind zone, or if the ULS is greater than 2.5kPa, the use is subject to specific engineering with the engineer having satisfied themselves that the product, pitch and fixings will meet the conditions.
In all exposure zones as defined by NZS 3604:2011.	➤ For use in “Microclimatic considerations,” (as defined in paragraph 4.2.4) refer to Metalcraft Roofing for technical advice.
On buildings any proximity to a relevant boundary.	
Building	
On timber or steel structural framing.	
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.	➤ Joist spacings must be in accordance with NZS 3604:2011. ➤ Tiles must be fixed in accordance with Metalcraft Roofing fixing tables for the tile profile.
On a pitched roof.	➤ Minimum pitch of 12° – Modena or Chateau tile profiles. ➤ Minimum pitch of 15° – Shake tile profile. ➤ The above pitches are restricted to a maximum rafter length of 12m. ➤ Where the rafter length exceeds 12m, increase minimum pitch by 1° per additional 0.5m.
In conjunction with a roof underlay that meets the performance requirements of Table 23 and paragraph 8.1.5 of E2/AS1.	
In conjunction with flashings to E2/AS1 (para 8.3.8).	

NZ STEEL ASSURANCE

As the manufacturer of the steel, from which Metalcraft Metal Tiles 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 galvanised in accordance with AS/NZS 2312.2:2014.

NZ Steel has established an Environmental Management System certified to ISO 14001.

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

VERSION:

PERFORMANCE CLAIMS

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

NZ Building Code clauses	BASIS OF COMPLIANCE ¹	
	Compliance statement	Demonstrated by
B1 Structure B1.3.1 B1.3.2 B1.3.3 (a, b, c, d, g, i)	ACCEPTABLE SOLUTION B1/AS1	› Manufactured in accordance with AS/NZS 1397:2011 and NZS 3604:2011 for spans.
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).
C3 Fire Affecting Areas Beyond the Fire Source C3.4 (a) C3.7 (a)	ACCEPTABLE SOLUTION C/AS1 C/AS2 1 st edition June 2019	› Steel is non-combustible (refer paragraph 5.8 C/AS2 1st edition June 2019). › Tested to ISO 5660 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 E2/AS1	› In accordance with paragraph 8.3 E2/AS1 and NZMRM Code of Practice (v3.0).
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	› Coating systems are inert once dry. › Colorsteel® safety data sheets.

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 Statements	BASIS OF STATEMENT	
	Performance statement	Demonstrated by
Metalcraft Metal Tiles, without chip, will not contaminate potable water	AS/NZS 4020:2005	› Claimed by NZ Steel. › BRANZ statement refer: http://www.level.org.nz/water/water-supply/mains-or-rainwater/harvesting-rainwater/ .

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.*
- › NZ Metal Roof Manufacturers (NZMRM): *Code of Practice (V3.0).*
- › NZ Steel Technical Bulletin (August 2016) *Fire Testing. Fire Testing of Coated Steel Product.*



VERSION: **DATE:**

Note: Uncontrolled in printed format.

NAME: Frances Charles

POSITION: National Sales & Marketing Mgr

Signed on behalf of Metalcraft Roofing:

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.



For more information visit www.metalcraftgroup.co.nz.