

BUILDING PRODUCTS INFORMATION SHEET (BPIS) METALCRAFT METAL TILES



CLASS 1

REVISION VERSION 2.0 ISSUE DATE: AUGUST 2024

PRODUCT NAME

Metalcraft Metal Tile range includes the following metal tile products:

- CHATEAU
- SHAKE

PRODUCT LINE

N/A

PRODUCT DESCRIPTION AND ITS INTENDED USE

Metalcraft Metal Tiles are a lightweight roofing solution available in 3 different profiles, with a range of colour options. Metalcraft Metal Tiles are manufactured from steel from New Zealand Steel, in:

COLORSTEEL® MAXAM™
0.39mm BMT G300 for Metal Tiles
0.55mm BMT G550 for Flashings

Metalcraft Metal Tiles are manufactured specifically for each project. Dimensions of the tiles are nominal and will vary depending on material tolerances.

Metal tiles are installed over a timber batten and fixed secured in place using 50x2.8mm black or galvanised nails.

INTENDED USE

Metalcraft Metal Tiles can be installed with Metalcraft COLORSTEEL® flashings, caps, gutters and fascias. They are ordered typically along with the required fixings, roofing underlay, sealants and timber battens.

Metalcraft Metal Tiles are used as a tiled roofing component, suitable for residential and for commercial applications that fall within the design criteria of NZ3604:2011.

Installation is suitable on both timber and or steel structures.

PRODUCT PROPERTIES

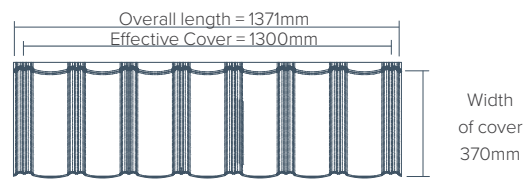
All dimensions are nominal.

	METALCRAFT METAL TILES	
	CHATEAU	SHAKE
Minimum Pitch	12°	15°
Gauge Substrate	0.39mm BMT G300	
Gauge Flashing	0.55mm BMT G300	
Material	COLORSTEEL® MAXAM™	
Metallic coating	Metallic coating is Metallic coating is AM 150 consistent with AS 1397:2021.	
Weight / Per Tile Pre-painted	2.1kg approx	
Overall Length (mm)	1371mm	1360mm
Effective Cover	1300mm	1295mm
Width of Cover	370mm	368mm
Tiles per m2	2.1	2.1
Upstand	25	22

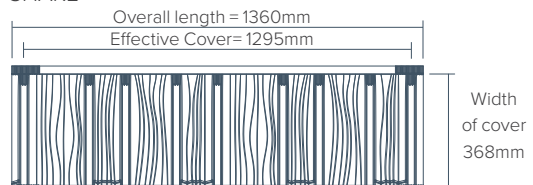
PRODUCT IDENTIFIER

All dimensions are nominal.

CHATEAU



SHAKE



RELEVANT BUILDING CODE CLAUSES:

B1 STRUCTURE

B1.3.3 (a, b, c, g, h,)

B2 DURABILITY

B2.3.1 (b)(i)

E2 EXTERNAL MOISTURE

E2.3.1, E2.3.2

STATEMENT ON HOW THE BUILDING PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE:

Metalcraft Metal Tiles and associated flashings when used in combination with fasteners, underlays and translucent sheeting accredited by NZMRM as complying to their products performance standards, will contribute to meeting the following performance requirements of the NZBC.

B1.3.3 (a, b, c, g, h)

Metalcraft Metal Tiles are lightweight and in accordance with NS 3604:2011 classified as a light roofing not exceeding 20kg/m².

Metalcraft Metal Tiles, comply with E2/AS1 and fixing of Metalcraft Metal Tiles to be in accordance with E2/AS1. Structural capacity is determined by the number of fixings and the fixings of Metalcraft Metal tiles are as per Figure 33 of E2/AS1 and suitable only for building types as defined in NZ3604:2011 for wind zones up to Extra High. Refer to loadspan and fixing tables, www.metalcraftgroup.co.nz

Timber battens-either 50x50mm or 50x40mm as per Metalcraft Metal Tiles Installation Guide, aligns with NZS3604: 2011 (table 10.12).

Suitable for snow loads up to 1Kpa as per E2/AS1 and NZS 3604:2011.

B2.3.1 (b)(i)

Metalcraft Metal Tiles and flashings are manufactured from:

COLORSTEEL® MAXAM™ (Also available with COLORSTEEL® MAXAM™ DRIDEX®)

Steel substrate may be either G300 or G550 consistent with AS 1397. Metallic coating is Metallic coating is AM 150 consistent with AS 1397:2021. MAXAM® is a Product Type 6 consistent with AS/NZS 2728:2013 and therefore is consistent with the NZ Building Code for use in environments as described in Acceptable Solution E2/AS1 Table 20. Tolerances are consistent with the requirements of AS/NZS 1365:1996.

Fixing of Metalcraft Metal Tiles to be also in accordance with E2/AS1 and NZMRM Code of Practice and be hot-dipped galvanised and compatible with the base material of the metal tiles. Fixings to satisfy the minimum NZ Building Code durability of 15 years.

.Timber battens must be in accordance with NZMRM Code of Practice section 15.3.1.5.

E2.3.1, E2.3.2

Metalcraft metal tiles are laid on pitches equal to or greater than those cited in section 8.3.5 of E2/AS1 and or section 15.3.1.2 of the NZMRM Code of Practice.

- Minimum pitch of 12° -Chateau tile profile
- 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.

When used with an absorbent underlay complying with NZS 2295:2006, Metalcraft Metal Tiles will contribute to compliance with the NZ Building Code E2.3.1.

Metalcraft Metal Tiles Installation details are in accordance with E2/AS1 and the NZMRM Code of Practice.

LIMITATIONS ON THE USE OF THE BUILDING PRODUCT:

- Metalcraft Metal Tiles are not suitable for use above Extra High Wind zones and for buildings outside the scope of E2/AS1 and NZS3604:2011.
- Suitable for snow loads up to 1Kpa as per E2/AS1 and NZS 3604:2011.
- With minimum pitches as per Product properties.
- Suitable only in exposure zones as per Metalcraft Warranty and Maintenance Guide.
- To be used in situations where there are no dissimilar metals or compatibility issues as per NZMRM Code of Practice.

DESIGN REQUIREMENTS THAT WOULD SUPPORT THE APPROPRIATE USE OF THE BUILDING PRODUCT

- Buildings that comply with NZS 3604:2011.
- Building height up to three storeys or 10 m.
- Timber framed construction in accordance with NZS 3604:2011.
- Steel framed structures in accordance with NASH Standard Part 1:2016 Design Criteria - Alternative Solution and NASH Standard Part 2:2019 Light Steel Framed Buildings.
- All Wind Zones up to and including Extra High.
- On roofs of any proximity to a relevant boundary.
- Exposure zones limited as per Metalcraft Warranty and Maintenance Guide.
- Only for pitched roofs, limitations on the pitch are dependent on the tile upstand, refer to table: Product properties.
- In conjunction with an absorbent underlay complying with NZS 2295:2006 and NZMRM Code of Practice.
- Fixings in accordance with E2/AS1.
- Design and installation details as per E2/AS1, NZS 3604:2011 and NZMRM Code of Practice.
- Timber battens in accordance with NZMRM Code of Practice section 15.3.1.5 and NZS3604: 2011 (table 10.12).
- The roof is constructed in a way that is likely to not cause a build-up of snow.

INSTALLATION REQUIREMENTS

Installation should be carried out by a suitably qualified practitioner. Installation of Metal Tiles and Tile Battens should be in accordance with Metalcraft Roofing's Metal tile Installation Guide and in accordance with NZMRM Code of Practice.

MAINTENANCE REQUIREMENTS

Maintenance must be carried out in accordance with the Metalcraft Roofing's Metal Tiles and Maintenance Guide.

IS THE BUILDING PRODUCT/BUILDING PRODUCT LINE SUBJECT TO A WARNING OR BAN UNDER SECTION 26 OF THE BUILDING ACT 2004:

NO

Metalcraft Metal Tiles are not subject to a warning or ban under the Building Act 2004.

SUPPORTING INFORMATION

The following documents can support demonstration of compliance of Metalcraft Roofing's Metal Tiles with the NZ Building Code.

Building Act 2004
www.legislation.govt.nz

NZBC relevant clauses and acceptable solutions
NZS 3604:2011
www.building.govt.nz

Cited standards
www.standards.govt.nz

NZMRM Code of Practice
www.metalroofing.org.nz

Metalcraft Metal Tile Information Brochure
Metalcraft Metal Tiles Warranty and Maintenance Guide
Metalcraft Metal Tile Installation Guide
Metalcraft Chateau, Modena and Shake Datasheets
Metalcraft Eco Choice Certification

Download from:
www.metalcraftgroup.co.nz

COLORSTEEL® Product and Technical Information.
www.colorsteel.co.nz

New Zealand Steel's Quality management system conforming to ISO 9001:2015 and assessed by Telarc.

PLACE OF METAL TILE MANUFACTURE

NEW ZEALAND

Metalcraft Metal Tiles are manufactured at the Metalcraft Roofing branch located in Palmerston North.

TRADING NAME / ADDRESS FOR SERVICE

METALCRAFT ROOFING
76 Malden Street, Palmerston North
06 358 9149
www.metalcraftroofing.co.nz
sales@palmerston@metalcraftroofing.co.nz

LEGAL NAME

STEEL BUILDING PRODUCTS CENTRAL LIMITED.
NZBN: 9429032296389
30 Highbrook Drive, East Tamaki, Auckland

OTHER METALCRAFT BRANCHES THAT CAN SUPPLY METAL TILES

TRADING AS METALCRAFT ROOFING:

METALCRAFT ROOFING -AUCKLAND EAST TAMAKI
24-26 Trugood Drive East Tamaki, Auckland
09 273 2820
orders.akl@metalcraftroofing.co.nz

METALCRAFT ROOFING -WHANGAREI
42-44 Rewa Rewa Road, Whangarei
09 470 0870
sales.whangarei@metalcraftroofing.co.nz

METALCRAFT ROOFING -HAMILTON
9 Earthmover Cres, Burbush, Hamilton
07 849 3807
sales.hamilton@metalcraftroofing.co.nz

METALCRAFT ROOFING -TAURANGA
42 Poturi St, Tauriko, Tauranga
07 575 7032
sales.tauranga@metalcraftroofing.co.nz

METALCRAFT ROOFING -PALMERSTON NORTH
76 Malden Street, Palmerston North
06 358 9149
sales.palmerston@metalcraftroofing.co.nz

METALCRAFT ROOFING -NEW PLYMOUTH
218 De Havilland Drive, Bell Block, New Plymouth
06 755 2113
sales.newplymouth@metalcraftroofing.co.nz

METALCRAFT ROOFING -HASTINGS
1454A Omaha Road, Hastings
06 873 9020
sales.hastings@metalcraftroofing.co.nz

METALCRAFT ROOFING -WELLINGTON
201 Gracefield Rd, Seaview, Lower Hutt
04 566 2253
orders.wgtn@metalcraftroofing.co.nz

METALCRAFT ROOFING -CHRISTCHURCH
85 Columbia Ave, Hornby, Christchurch
03 349 7350
sales.christchurch@metalcraftroofing.co.nz

METALCRAFT ROOFING -CROMWELL
20 McNulty Road, Cromwell
03 445 4180
sales.cromwell@metalcraftroofing.co.nz

METALCRAFT ROOFING - AUCKLAND HOBSONVILLE
25 -27 Westpoint Drive, Hobsonville, Auckland
09 444 1813
orders.ns@metalcraftroofing.co.nz

METALCRAFT ROOFING -ROTORUA
15 Monokia Street, Rotorua
07 350 1138
sales.rotorua@metalcraftroofing.co.nz

LEGAL ENTITIES:

STEEL BUILDING PRODUCTS CENTRAL LIMITED

NZBN: 9429032296389
Level 1, 30 Highbrook Drive, East Tamaki Auckland

TRADING NAME / ADDRESS FOR SERVICE:

Metalcraft Roofing - Hamilton
Metalcraft Roofing - New Plymouth

STEEL BUILDING PRODUCTS NORTHERN LIMITED

NZBN: 9429032461398
Level 1, 30 Highbrook Drive, East Tamaki Auckland

TRADING NAME / ADDRESS FOR SERVICE:

Metalcraft Roofing - East Tamaki
Metalcraft Roofing - Whangarei

STEEL BUILDING PRODUCTS SOUTHERN LIMITED

NZBN: 9429036306183
Level 1, 30 Highbrook Drive, East Tamaki Auckland

TRADING NAME / ADDRESS FOR SERVICE:

Metalcraft Roofing - Hastings
Metalcraft Roofing - Palmerston North
Metalcraft Roofing - Wellington

STEEL BUILDING PRODUCTS SOUTH ISLAND LIMITED

NZBN: 9429032296303
Level 1, 30 Highbrook Drive, East Tamaki Auckland

TRADING NAME / ADDRESS FOR SERVICE:

Metalcraft Roofing - Cromwell
Metalcraft Roofing - Christchurch

METAL LINE ROOFING LIMITED

NZBN: 9429031709583
Level 1, 30 Highbrook Drive, East Tamaki Auckland

TRADING NAME / ADDRESS FOR SERVICE:

Metalcraft Roofing - Hobsonville
Metalcraft Roofing - Rotorua
Metalcraft Roofing - Tauranga

DISCLAIMER

This Building Product Information Sheet must be read in conjunction with all cited documents.

Metalcraft Roofing states that the product will, if installed in accordance with the technical data, specifications, and advice prescribed by Metalcraft Roofing comply with the relevant provisions of the building code and satisfy our obligation to meet S14G of the Building Act 2004.

It remains the responsibility of all other professional parties to ensure they satisfy their own obligation of the Building Act 2004.

As part of Metalcraft Roofing's policy of continued improvement, final specifications may vary from those contained in this publication. The company reserves the right at any time and without notice to change the design, materials or features and withdraw products from the market without incurring any liability whatsoever.

STEEL SOURCED FROM

COLORSTEEL®

Metalcraft Metal Tiles are manufactured from steel from New Zealand Steel:

COLORSTEEL® NZ Steel manufacture COLORSTEEL® MAXAM™

New Zealand steel Ltd, 131 Mission Bush Road Glenbrook 2681,
www.nzsteel.co.nz

OTHER PRODUCTS

Metalcraft Roofing also sell other products to complement the Metal Tile installation these include:

Please note the correct selection of these products for the project application is the responsibility of the architect/ designer.

All products where demonstration of performance is required to satisfy the NZ Building Code is the responsibility of the product manufacturer or importer of the following items: Metalcraft take on no responsibility whatsoever

Please liaise with the following companies for information:

TIMBER BATTENS

Sourced from various NZ Merchants

Key Merchant include:

Akarana Timbers www.akaranatimbers.co.nz

FIXING NAILS

www.delfast.com

www.konnectfasteningsystems.co.nz

UNDERLAY

Metalcraft Roofing can supply various underlays, please note Key Suppliers include:

Thermakraft - www.thermakraft.co.nz

DriSpace - www.drinspace.co.nz

ProClima - www.proclima.co.nz

SEALANTS, WASHERS, AQUASEALS, AQUADAPT, RIVETS, FASTENERS, TOUCH UP PAINTS , LITTLE GRIPPERS.

Key Supplier:

Konnect Fastening Systems®

www.konnectfasteningsystems.co.nz

ANGLED RIDGE CAPS - COLORSTEEL® ENDURA®.

Angled ridge caps are manufactured by

Kimberly Tool and Design - www.ktd.co.nz

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REVISION VERSION 2.0 ISSUE DATE: AUGUST 2024

DOCUMENT CONTROL

REVISION	REVISION VERSION & REVISION DATE
<ul style="list-style-type: none"> • AMEND MATERIAL OPTIONS THROUGHOUT DOCUMENT COLORSTEEL® ENDURA IS REPLACED WITH COLORSTEEL® MAXAM™ • CORRECT BRANCH INFORMATION ON LEGAL ENTITIES. • DELETE MODENA TILE 	REVISION VERSION 2.0 21/08/2024