

CLASS 1

VERSION 1.0 ISSUE DATE: DECEMBER 2023

## PRODUCT NAME

Metalcraft Roofing - **Metcom 7**

## PRODUCT LINE

N/A

## PRODUCT DESCRIPTION AND ITS INTENDED USE

Metalcraft Roofing's Metcom 7 profile is a roofing and wall cladding profile manufactured using steel sourced from New Zealand Steel which is roll formed and then installed with screw fasteners fixed into structural supports.

It can be formed from a variety of substrates to meet durability, formability, and aesthetic requirements.

### INTENDED USE

Metalcraft Roofing's Metcom 7 profile can be used as a roofing or cladding component for residential and commercial applications only. Installation is suitable for timber and or steel structures.

Metalcraft Roofing's Metcom 7 profile can be used with various Metalcraft COLORSTEEL® flashings, gutters and fascias. They are ordered typically along with the required fixings, underlay and sealants.

### MATERIAL OPTIONS:

COLORSTEEL® ENDURA® (Also available with COLORSTEEL® ENDURA® DRIDEX®)  
0.40mm and 0.55mm BMT G550.  
0.55mm BMT or 0.75mm BMT G300 for flashings.

COLORSTEEL® MAXX® (Also available with COLORSTEEL® ENDURA® DRIDEX®)  
0.40mm and 0.55mm BMT G550.  
0.55mm BMT or 0.75mm BMT G300 for flashings.

COLORSTEEL® ALTIMATE®  
0.90mm Aluminium 5052 H36 for roll-forming.  
0.90mm Aluminium 5005 H34 for flashings.

ZINCALUME®  
0.40mm and 0.55mm BMT G550.  
0.55mm BMT or 0.75mm BMT G300 for flashings.

GALVSTEEL®  
0.40mm and 0.55mm BMT Z450.  
0.55mm BMT G300 for flashings.

For more information on COLORSTEEL® refer [www.colorsteel.co.nz](http://www.colorsteel.co.nz)

For more information GALVSTEEL® & ZINCALUME® refer [www.nzsteel.co.nz](http://www.nzsteel.co.nz)

Above thicknesses are the nominal base metal thickness rather than the total coated thickness.

## BPIS INCLUSION / EXCLUSION

This BPIS includes Metalcraft Roofing's Metcom 7 profile and associated flashings and other items manufactured by Metalcraft Roofing. Metalcraft Roofing do supply fasteners, underlay and other products as part of the roofing supply, however demonstration of compliance of these items are not the responsibility of Metalcraft Roofing. Please refer to: Other products supplied by Metalcraft roofing for a list of those items and links to manufacturers.

## PRODUCT IDENTIFIER

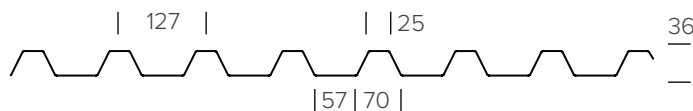
METCOM 7

Minimum Pitch: 3 degrees.

Width: Cover = 889mm Sheet = 933mm.

Applications: Commercial and residential.

Orientation: Roofs and horizontal and vertical wall cladding.



All dimensions are nominal.

RELEVANT BUILDING CODE CLAUSES:

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**B1 STRUCTURE**

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

**B2 DURABILITY**

B2.3.1 (b(i))

**C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE**

C3.4 (a), C3.7 (a)

**E2 EXTERNAL MOISTURE**

E2.3.1, E2.3.2

**F2 HAZARDOUS BUILDING MATERIALS**

F2.3.1

**G12 WATER SUPPLIES**

G12.3.1

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

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Metalcraft Roofing's Metcom 7 profile and associated flashings 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 NZ Building Code.

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

Metalcraft Roofing has conducted testing and analysis on the Metcom 7 profile, in accordance with procedures described in NZMRM -Metal Roofing and Wall Cladding Code of Practice.

Loadspan and fixing patterns are available for download from: [www.metalcraftgroup.co.nz](http://www.metalcraftgroup.co.nz)

**B2.3.1 (b)(i)**

Metalcraft Metcom 7 and associated flashings are manufactured from steel from NZ Steel:

COLORSTEEL® ENDURA® (Also available with COLORSTEEL® ENDURA® DRIDEX®)

Steel substrate may be either G300 or G550 consistent with AS 1397. Metallic coating is AZ 150 consistent with AS 1397:2021

COLORSTEEL® ENDURA® is a Product Type 4 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.

COLORSTEEL® ENDURA DRIDEX® is a Type 4 product in accordance 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.

COLORSTEEL® MAXX® (Also available with COLORSTEEL® MAXX® DRIDEX®)

Steel substrate may be either G300 or G550 consistent with AS 1397. Metallic coating is AZ 200 consistent with AS 1397.

MAXX® is 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.

COLORSTEEL® MAXX DRIDEX® is a Type 6 product in accordance 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.

COLORSTEEL® ALTIMATE®

Aluminium substrate is in accordance with AS/NZS 1734:1997 covering chemical composition, mechanical properties, and allowable tolerances on dimensions. Altimate® is a Type 6 product in accordance 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.

Above information as cited by COLORSTEEL® [www.colorsteel.co.nz](http://www.colorsteel.co.nz)

**ZINCALUME®**

Non-factory painted steel substrate may be either G300 or G550 consistent with AZ150 consistent with E2/AS1 Table 20.

**GALVSTEEL®**

Non-factory painted Galvanised steel Z450 to AS 1397 consistent with E2/AS1 Table 20.

Selection of correct product must be suitable for their end-use, location and environment as per Acceptable Solution E2/AS1 Table 20.

Refer also to COLORSTEEL® Environmental Categories, Warranty & Product Maintenance recommendations.

Contact with corrosive and incompatible materials, prolonged exposure to damp or corrosive internal environments, or excessive periods of wet stacking must be avoided as per table 20 E2/AS1.

Fixings of Metcom 7 to be in accordance with E2/AS1 and NZMRM Code of Practice and be compatible with the base material of the Metcom 7 profile.

**C3.4 (a), C3.7 (a)**

Metalcraft Roofing's Metcom 7 profile is manufactured from COLORSTEEL®

COLORSTEEL® is rated as a Group 1-S material and has an average specific extinction area of 38.2m<sup>2</sup>/kg, a peak heat release rate of 3.3 kW/m<sup>2</sup> and total heat released of 0.2 MJ/m<sup>2</sup> when tested in accordance with ISO 5660:2002 Part 1 and Part 2.

Above information as cited by COLORSTEEL® <https://www.colorsteel.co.nz/>

**E2.3.1, E2.3.2**

Flashing details should be in accordance with Metalcraft Roofing's Metcom 7 installation details, NZMRM Code of Practice, E2/AS1. Metalcraft Roofing's Metcom 7 profile can be laid on pitches equal to or greater than those cited in E2/AS1 and or the NZMRM Code of Practice.

Alternative details complying with the "4 D's" (Deflection, Draining, Drying and Durability) will also comply with the performance requirements of NZ Building Code.

Metalcraft Roofing's Metcom 7 profile laid to a minimum pitch of 3° as per E2/AS1 and NZMRM Code of Practice.

When used with an absorbent underlay complying with NZS 2295:2006, Metalcraft Roofing's Metcom 7 profile will contribute to compliance with the NZ Building Code.

**F2.3.1**

COLORSTEEL® ENDURA®, COLORSTEEL® MAXX®, ZINCALUME® and GALVSTEEL® will meet the performance requirements of F2, 2.3.1.

**G12.3.1**

COLORSTEEL® and ZINCALUME® Rainwater collected from roofs clad with products made from ZINCALUME® coated steel and COLORSTEEL® prepainted steel, will comply with the provisions of NZBC G12.3.1, provided the water is not contaminated from other sources.

Claimed by NZ Steel -Source:

<https://www.nzsteel.co.nz/products/zincalume/features/#:~:text=Rainwater%20collected%20from%20roofs%20clad,not%20contaminated%20from%20other%20sources.>

## LIMITATIONS ON THE USE OF THE BUILDING PRODUCT:

- Metalcraft Roofing's Metcom 7 profile can be used on SED projects if within the scope of NZMRM Code of Practice for flashing cover dimensions and suitability of use and where the design loads are within the products performance. Refer to Metalcraft Roofing's Installation Details and loadspan and fixing tables for product limitations. Fixings of Metcom 7 into SED projects outside the scope of NZMRM Code of Practice will require sign off from a professional engineer.
- Thermal breaks required when steel framed structures are used on insulated and lined buildings.
- Direct fixing of vertically laid Metcom 7 is not permitted under E2/AS1 (risk matrix) and should be limited to unlined buildings only and buildings with importance level 1.
- When installed as vertical cladding over a cavity then alternative details complying with the "4 D's" (Deflection, Draining, Drying and Durability) will also comply with the performance requirements of NZ Building Code.
- Demonstration of compliance of horizontal battens by batten manufacturer and outside scope of this BPIS.
- To be used in situations where there are no dissimilar metals or compatibility issues as per NZMRM Code of Practice and Table 20 E2/AS1.
- When installed as a roof cladding, laid to a minimum pitch of profile.
- The use of DRIDEX® is permitted and compliance is as per Codemark Certificate, available to download on: [www.colorsteel.co.nz](http://www.colorsteel.co.nz)

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

- Buildings that comply with NZS 3604:2011 and building height up to three storeys or 10 m.
- For SED building height may go above 10m, to max performance of the MC770 profile and in design wind speeds as covered by NZMRM Code of Practice.
- Buildings designed in accordance with NSZ 1170:2:2002.
- 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.
- Design and installation as per E2/AS1, NZS 3604:2011 and NZMRM Code of Practice.
- Alternative details complying with the "4 D's" (Deflection, Draining, Drying and Durability) will also comply with the performance requirements of NZ Building Code.
- The risk matrix in E2/AS1 only addresses direct fixed vertically laid cladding. E2/AS1 states a drained cavity assists drying by allowing water which occasionally penetrates the wall cladding system to drain to the exterior of the building, and any remaining moisture to dry by evaporation. Metalcraft Roofing recommends all its cladding profiles are installed over a drained and vented cavity as it further assists in creating better air circulation than that achieved by direct fixed alone and also provides an additional layer of defence. Compliance of the cavity battens are by others. If treated timber battens are used then Metalcraft require a DPC separation layer.

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## INSTALLATION REQUIREMENTS

Installation should be carried out by a suitably qualified practitioner. Installation of Metcom 7 should be in accordance with NZMRM Code of Practice. [www.metalroofing.org.nz](http://www.metalroofing.org.nz)

## MAINTENANCE REQUIREMENTS

Maintenance must be carried out in accordance with the COLORSTEEL® Environmental Categories, Warranty & Product Maintenance recommendations brochure. This can be downloaded from:

[www.colorsteel.co.nz](http://www.colorsteel.co.nz)

[www.metalcraftgroup.co.nz](http://www.metalcraftgroup.co.nz)

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

**NO**

Metalcraft Roofing's Metcom 7 profile is not subject to a warning or ban under the Building Act 2004.

## SUPPORTING INFORMATION

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

Building Act 2004

[www.legislation.govt.nz](http://www.legislation.govt.nz)

NZBC relevant clauses and acceptable solutions

NZS 3604:2011

[www.building.govt.nz](http://www.building.govt.nz)

Cited standards

[www.standards.govt.nz](http://www.standards.govt.nz)

NZMRM Code of Practice

[www.metalroofing.org.nz](http://www.metalroofing.org.nz)

Metalcraft Roofing's Metcom 7 Information Brochure

Metalcraft Roofing's Metcom 7 Installation Details.

COLORSTEEL® Environmental Categories, Warranty & Product Maintenance recommendations brochure.

NZMRM Installation Guide.

Metalcraft Roofing's Metcom 7 Loadspan and Fixing Tables.

Metalcraft Eco Choice Certification

Download from:

[www.metalcraftgroup.co.nz](http://www.metalcraftgroup.co.nz)

COLORSTEEL® Product and Technical Information.

[www.colorsteel.co.nz](http://www.colorsteel.co.nz)

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

New Zealand's Steel's Environmental Management system conforming to ISO 14001:2015

[www.nzsteel.co.nz](http://www.nzsteel.co.nz)

PLACE OF METALCRAFT METCOM 7  
MANUFACTURE

**NEW ZEALAND**

Metalcraft Metcom 7 is manufactured from the following Metalcraft Roofing branches and available nationwide from all Metalcraft Roofing branches.

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

OTHER METALCRAFT BRANCHES THAT CAN  
SUPPLY METCOM 7

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

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

METALCRAFT ROOFING - AUCKLAND HOBSONVILLE  
25 -27 Westpoint Drive, Hobsonville, Auckland  
09 444 1813  
orders.ns@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 -NEW PLYMOUTH  
218 De Havilland Drive, Bell Block, New Plymouth  
06 755 2113  
sales.newplymouth@metalcraftroofing.co.nz

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

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

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

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  
TRADING NAME / ADDRESS FOR SERVICE:  
Level 1, 30 Highbrook Drive, East Tamaki Auckland  
Metalcraft Roofing - East Tamaki

**STEEL BUILDING PRODUCTS SOUTHERN LIMITED**

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

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

**METAL LINE ROOFING LIMITED**

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

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® GALVSTEEL® ZINCALUME®**

Metalcraft Metcom 7 profile is manufactured from steel from New Zealand Steel:

New Zealand Steel Ltd, 131 Mission Bush Road Glenbrook 2681, Auckland New Zealand

[www.nzsteel.co.nz](http://www.nzsteel.co.nz)

OTHER PRODUCTS SUPPLIED BY  
METALCRAFT ROOFING

Metalcraft Roofing also sell other products to complement the installation of Metcom 7.

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:

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

Key Supplier:  
Kconnect Fastening Systems®

<https://www.kconnectfasteningsystems.co.nz/>

**UNDERLAY**

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

Thermakraft - [www.thermakraft.co.nz](http://www.thermakraft.co.nz)

DriSpace - <https://www.drinspace.co.nz/>

ProClima - [www.proclima.co.nz](http://www.proclima.co.nz)

**MILL FINISH ALUMINIUM**

Wakefield Metals - <https://www.wakefieldmetals.co.nz/>

**TRANSLUCENT SHEETING**

Key Supplier:

Alsynite - [www.alsynite.co.nz](http://www.alsynite.co.nz)

Other supplier:

Ampelite - <https://www.ampelite.co.nz/>