

METALCRAFT ROOFING MC760

MC760 EXPLAINED

The MC760 Roofing and External Wall Cladding system comprises:

- A long run steel sheet with a 5 rib assymetrical trapezoidal profile
- Associated design and installation information

Metalcraft fabricates the MC760 sheets from steel manufactured by New Zealand Steel. This steel is supplied with different protective coatings which are designed to withstand conditions in specific New Zealand Corrosion Zones. Refer to NZ Steel's Environmental Categories Brochure at www.nzsteel.co.nz/technical-resources for details.

MC760 is available in the following NZ Steel branded products

- COLORSTEEL® Endura®
- Galvsteel®
- COLORSTEEL® Maxx®
- Zinalume®

In the following sizes:

- **Thicknesses:** 0.4mm and 0.55mm
- **Width:** Cover = 760mm Sheet = 810mm

And with the following profile dimensions:



PURPOSE

Metalcraft Roofing supply the MC760 system as a horizontal and vertical external wall cladding, and for roofs with a defined minimum pitch for 3 degrees.

SCOPE OF USE

Metalcraft Roofing supply the MC760 Roofing and External Wall Cladding system for use on commercial and residential buildings within the following scope:

LOCATION:

- In wind zones:
 - Up to and including Extra High as defined by NZS-3604:2011.
 - Subject to specific engineering, if the engineer has satisfied themselves that the product, pitch and fixings will meet the conditions.
- In all climate zones as defined by NZS-3604:2011, subject to the limitations set out below (see limitations overleaf).
- On buildings located within 1m of the relevant boundary, in respect of fire spread only.

SIGN OFF

SIGNED:

Frances Charles

Frances Charles

National Sales & Marketing Manager

DATE: 9 FEBRUARY 2018

VERSION: 1.0

FURTHER INFORMATION

For further product assistance please contact:

www.metalcraftgroup.co.nz

Phone: 0276 031096

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BUILDING:

- On new buildings that have been designed and constructed to comply with the NZ Building Code (NZBC) using timber or steel framing.
- On existing buildings using timber and steel framing where the designer and installer have satisfied themselves that the building is suitable for the intended building work.
- In conjunction with a vapour permeable building wrap that has a permeability of 36g/m²/day of a vapour resistance of no more than 500MNs/g.
- In conjunction with a potable water collection system.

LIMITATIONS

LOCATION:

- MC760 may be used as a roof cladding system in exposure zones B, C & D as defined in Sec 4, NZS3604:2011. For use in "Microclimatic considerations," (as defined in Sec 4.2.4) refer to Metalcraft Roofing.
- MC760 may be used as a wall cladding system in exposure zones B & C. Where MC760 is to be used in exposure Zone D, then only COLORSTEEL® Endura® or COLORSTEEL® Maxx® may be use.

BUILDING:

- Where MC760 is used in an insulated building in conjunction with steel framing, a thermal break is required.
- Contact with other materials must be in accordance with Table 21 (E2/AS1), or compatible with the The New Zealand Metal Roofing Manufacturers Association Inc (NZMRM) Code Of Practice.
- Building height and design wind speed is limited by the MC760 design load span tables (refer to: www.metalcraftgroup.co.nz).
- Where it is used as a roof cladding, MC760 sheet lengths of ≤ 40m must be installed on a roof with a minimum pitch of 3°. MC760 sheet lengths of > 40m but ≤ 60m must be installed on a roof with a minimum pitch of 4°.
- When used horizontally or vertically as a wall cladding, MC760 must always be installed in conjunction with a drained cavity.

USEFUL LINKS

- For technical information, drawings and specification refer to: www.metalcraftgroup.co.nz
- For information to ensure correct fasteners are being used refer to: www.metalcraftgroup.co.nz
- For information on care and maintenance refer to: www.metalcraftgroup.co.nz
- For information on the Metalcraft Roofing warranty refer to: www.metalcraftgroup.co.nz

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COMPLIANCE WITH NZ BUILDING CODE

If designed, installed and maintained in accordance with all Metalcraft Roofing requirements, the MC760 Roofing and External Cladding system will comply with or contribute to compliance with the following provisions of the NZBC:

NZBC Clause	Evidence of compliance
B1 Structure B1.3.1, B1.3.2 B1.3.3 (a), (b), (c), (d), (g), (h) & (i) - Building element, installation of a building element	AS1397:2011 (claim by NZ Steel) cited in E2/AS1. Load span tables AS/NZS1170:2002.
B2 Durability B2.3.1 (b) - Minimum 15 yrs	Coated in accordance with AS/NZS 2728:2013. (NZ Steel claim) cited in E2/AS1.
C3 Fire Affecting Areas Beyond the Source C3.4 (a), C3.5, C3.6, C3.7 (a), C3.8 & C3.9	ISO5660 BRANZ (FH 6102-TT, dated 3/1/2017) (Material Group 1-S). Steel non-combustible (per comment section 5.8 C/AS2-C/AS7.
E2 External Moisture E2.3.1, E2.3.2, E2.3.7 (a-c)	E2/AS1 NZ MRM Code of Practice (V2.2).
F2 Hazardous Building Materials F2.3.1	Refer to BRANZ statement (G12.3.1). NZ Steel claim coated to AS/NZS2728.
G12 Water Supply G12.3.1	BRANZ statement that metal roof suitable refer: http://www.level.org.nz/water/water-supply/mains-or-rainwater/harvesting-rainwater/ NZ Steel claim tested to AS/NZS40202.

OTHER CERTIFICATIONS

As the manufacturer of the steel from which MC760 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.