

CLASS 1

VERSION 1.0 ISSUE DATE: DECEMBER 2023

PRODUCT NAME

Metalcraft Composite Tray Flooring products includes the following products:

Svelte 60
Svelte 80
Unifloor

PRODUCT LINE

N/A

PRODUCT DESCRIPTION AND ITS INTENDED USE

METALCRAFT SVELTE® AND UNIFLOOR®

All our profiles are manufactured using steel from New Zealand Steel.

Panels are manufactured from G550 (min: 550MPa yield stress) steel with a base metal thickness of 0.75mm, 0.95mm & 1.15mm. The steel panel is protected with a galvanized coating of Z275. A galvanized coating of Z450 is optional when required.

INTENDED USE:

The SVELTE® and UNIFLOOR® sections have been engineered to offer lightweight steel decking solutions for multi-storey buildings..

SVELTE® 60 PROFILE:

Svelte®60 has been designed to provide excellent acoustic performance, fire protection and improved vibration softening properties. Delivered to site pre-cut to the correct sizes and ready to fix, reducing on site work.

STEEL GRADE:

0.75mm and 0.95mm BMT manufactured from G550 (550MPa yield stress). 1.15mm BMT manufactured from G500. Galvanised coating Z275.

UNIFLOOR® PROFILE:

Unifloor® is a long span Flat Soffit profile with a 300 mm cover. It's an interlocking and adaptable and easy to install floor solution for a range of building & construction projects. Engineered with a unique profile that has an interlocking edge lap, the Unifloor design complements that of vertical tilt panels.

STEEL GRADE:

0.75mm and 0.95mm BMT manufactured from G550 (550MPa yield stress). 1.15mm BMT manufactured from G500. Galvanised coating Z275.

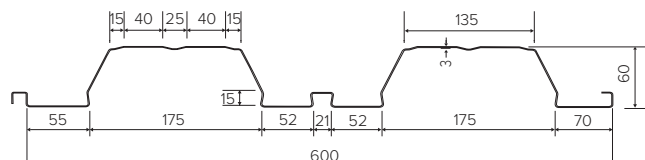
BPIS INCLUSION / EXCLUSION

This BPIS includes Metalcraft Roofing's Composite Tray flooring profiles.

PRODUCT IDENTIFIER

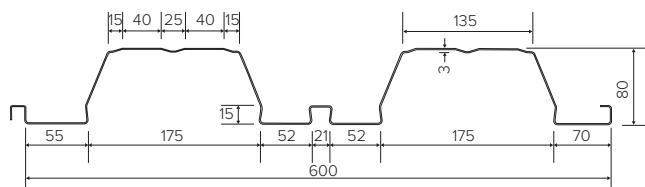
SVELTE® 60 PROFILE

Dimensions are nominal. Do not scale.



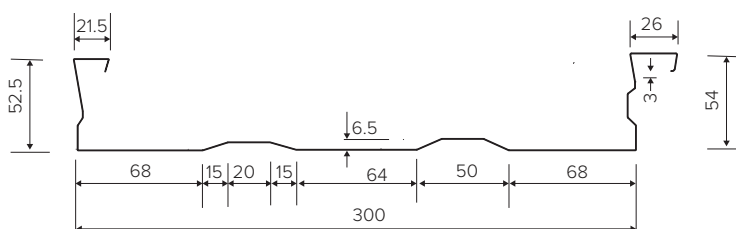
SVELTE® 80 PROFILE

Dimensions are nominal. Do not scale.



UNIFLOOR® PROFILE

Dimensions are nominal. Do not scale.



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RELEVANT BUILDING CODE CLAUSES:

B1 STRUCTURE:

B1.3.1, B1.3.2, B1.3.3, B1.3.3 & B1.3.4 (sub clauses determined by Engineer)

B2 DURABILITY:

B2.3.1(a) AND B2.3.2(a)

F2 HAZARDOUS BUILDING MATERIALS

F2.3.1

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

B1.3.1, B1.3.2, B1.3.3 (a, b, c, f, g, h), B1.3.4 (d, e)

All loading conditions/combinations are the responsibility of the Design Engineer.

All our profiles are manufactured from the highest grade steel, and designed utilizing up to date design standards including:
AS/NZS 4600 "Cold formed structures code"
AS/NZS 2327:2017 "Composite Structures 'Composite Steel concrete construction in Buildings"

Panels are manufactured from G550 (min: 550MPa yield stress) steel with a base metal thickness of 0.75mm, 0.95mm & 1.15mm. The steel panel is protected with a galvanized coating of Z275. A galvanized coating of Z450 is optional when required.

B2:3.6.1

Metalcraft Roofing's MSS Purlins, Girts, MC Sections, MZ Purlins, Bracing Systems, MS Tophats, SVELTE® and UNIFLOOR® profiles will meet a service life of up to 50 years. Compliance with the conditions stated in the New Zealand Steel Durability Statement June 2016 will ensure that the durability requirements of NZBC Approved Document B2 are satisfied.

The MSS Purlins, Girts and Composite tray flooring profiles; SVELTE® and UNIFLOOR® are manufactured from high tensile G550 Mpa galvanised coil in accordance with AS1397.

Care should be taken to ensure no contact with corrosive materials, or appropriate separation is made between dissimilar metals, including those used in timber preservation treatments.

Refer Durability Statement from NZ Steel : <https://www.metalcraftgroup.co.nz/>

F2.3.1

GALVSTEEL® will meet the performance requirements of F2, 2.3.1.

LIMITATIONS ON THE USE OF THE BUILDING PRODUCT:

Metalcraft Roofing's Composite Tray Flooring manual and online STEELSPEC™ DESIGN TOOL must only be used by Professional Chartered Engineers whom are responsible for the design and engineering compliance.

Professional Engineer is responsible for identifying the sub clauses of B1 as it will be specific to the design.

INSTALLATION REQUIREMENTS

Refer to Metalcraft Roofing Composite Tray Flooring Guide for details, and standard industry best practice.

HANDLING AND STORAGE

The presence of water between the stacked sections will create premature corrosion, it is recommended the sections are separated and dried if this situation occurs. Cutting if required should be done with hacksaws or power saws or snips, the use of abrasive disc blades are not recommended.

MAINTENANCE REQUIREMENTS

Refer to Metalcraft Roofing Composite Tray Flooring Guide for details, and standard industry best practice.

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 Composite Tray Flooring products are not subject to a warning or ban under the Building Act 2004.

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

When selecting composite tray flooring systems for projects the specifier must consider the impact of the actual applied loads versus the stated capacities for the system as specified in the manual. Actual loading, while it may be less than stated values does not necessarily ensure adequacy of the selected system as member adequacy is highly dependent on the maximum moments applied and the moment profile in the member span. Such design actions can be significantly altered by the variations in the actual project specific calculated applied loads, and accordingly the Design Engineer is responsible for verifying their composite tray flooring selection complies with:

- AS/NZS 4600 "Cold formed structures code"
- AS/NZS2327:2017 Composite Structures -Composite Steel concrete construction in Buildings

Fire designs and acoustics need to be evaluated and allowed for and designed if required by professional engineer.

Reinforcing steel (mesh) for shrinkage creep and acoustics need to be evaluated and allowed for by professional engineer.

STEELSPEC™ DESIGN TOOL

Metalcraft Roofing have developed a specific design tool making specification of SVELTE® and UNIFLOOR® easier and quicker to do.

The specifier or engineer is responsible for the selection and design of composite tray flooring.

Use this site to design your Steel Composite Floor solution.
www.metalcraftcompositeflooring.co.nz

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PLACE OF MANUFACTURE

NEW ZEALAND

Manufactured from the following Metalcraft Roofing branches and available nationwide from all Metalcraft Roofing branches.

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

SUPPORTING INFORMATION

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

Building Act 2004
www.legislation.govt.nz

Cited standards
www.standards.govt.nz

Metalcraft Roofing's Composite Guide.
Metalcraft Roofing's Composite Installation Details.
Metalcraft Eco Choice Certification.

Download from:
www.metalcraftgroup.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

OTHER METALCRAFT BRANCHES THAT CAN SUPPLY

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

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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

STEEL SOURCED FROM

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

www.nzsteel.co.nz

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.



Metalcraft Roofing are members of the Roofing Association, New Zealand and the New Zealand Metal Roofing Manufacturers Incorporated.