



RAINWATER SYSTEMS

ABOUT US

Rest assured that when you choose any gutter, downpipe or fascia from Metalcraft Roofing's wide range of rainwater products, you choose a product that is manufactured from one of New Zealand Steel Limited's trusted brands. For over 60 years Metalcraft Roofing has been sheltering families from New Zealand's extreme environment.

COLOURS

Gutters, Fascias and downpipes are available in 20 standard colours from New Zealand Steel COLORSTEEL® Colour brochures and steel swatches are available on request. Please do not select colours based on pdf,s or websites.



GUTTER CAPACITY

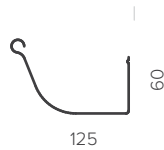
Please note that the total cross sectional area (mm²) should only be used when there is sufficient allowance for an overflow when there is insufficient allowance for overflow then nett of freeboard volumes should be used. Freeboard for external gutters with no overflow is 15mm. For more information on overflow allowances and freeboard considerations refer to Metalcraft Roofing's individual product flyers, these can be downloaded from www.metalcraftroofing.co.nz.

| GUTTER TYPE | MANUFACTURING LOCATIONS | TOTAL CROSS SECTIONAL AREA (mm ²) | NETT OF FREEBOARD (mm) | WETTED PERIMETER (mm) | INTERNAL BRACKET (CONCEALED) BRACKET | EXTERNAL BRACKET |
|--------------------------|--|---|------------------------|-----------------------|--------------------------------------|------------------|
| 125 QUARTER ROUND GUTTER | PALMERSTON NORTH | 5958mm ² | 4264mm ² | 181mm | NO | YES / NONE |
| COLONIAL QUAD GUTTER | PALMERSTON NORTH HAMILTON CROMWELL CHRISTCHURCH NEW PLYMOUTH | 6967mm ² | 5186mm ² | 191mm | YES | NO |
| QUADLINE GUTTER | AUCKLAND | 6290mm ² | 4514mm ² | 180mm | YES | NO |
| HALF ROUND GUTTER | CHRISTCHURCH | 8627mm ² | 6554mm ² | 199mm | NO | YES |
| SQUARELINE GUTTER | CHRISTCHURCH | 7245mm ² | 5520mm ² | 211mm | YES | NO |
| 150 QUARTER ROUND GUTTER | TAURANGA | 6278mm ² | 4443mm ² | 180mm | YES | NO |
| BOX GUTTER 115 | WELLINGTON | 6900mm ² | 5175mm ² | 205mm | YES | NO |
| BOX GUTTER 125 | AUCKLAND PALMERSTON NORTH WHANGAREI CHRISTCHURCH | 9750mm ² | 7875mm ² | 251mm | YES | YES |
| BOX GUTTER 175 | AUCKLAND PALMERSTON NORTH CHRISTCHURCH | 21000mm ² | 18375mm ² | 385mm | YES | YES |
| BOX GUTTER 300 | AUCKLAND PALMERSTON NORTH CHRISTCHURCH | 30000mm ² | 25500mm ² | 470mm | NO | YES |

For material options for Gutters, Downpipes and Fascias, please check with your local Metalcraft Roofing branch.

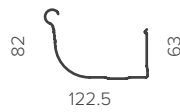
125 QUARTER ROUND
GUTTER

Manufactured in:
Palmerston North.
Available nationwide.



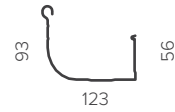
COLONIAL QUAD
GUTTER

Manufactured in:
Palmerston North, Hamilton,
Cromwell, Christchurch and
New Plymouth.
Available nationwide.



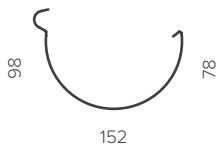
QUADLINE
GUTTER

Manufactured in:
Auckland.
Available nationwide.



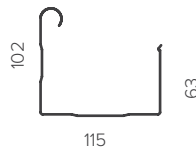
HALF ROUND
GUTTER

Manufactured in:
Christchurch.
Available nationwide.



SQUARELINE
GUTTER

Manufactured in:
Christchurch.
Available nationwide.



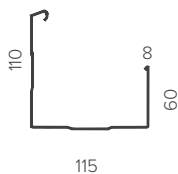
150 QUARTER ROUND
GUTTER

Manufactured in:
Tauranga.
Available nationwide.



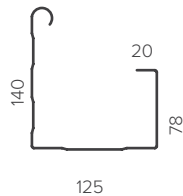
BOX
GUTTER 115

Manufactured in:
Wellington.
Available nationwide.



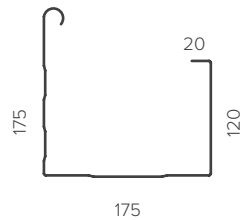
BOX
GUTTER 125

Manufactured in:
Auckland, Whangarei,
Palmerston North and
Christchurch.
Available nationwide.



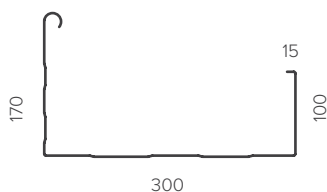
BOX
GUTTER 175

Manufactured in:
Auckland, Palmerston North,
Christchurch.
Available nationwide.



BOX
GUTTER 300

Manufactured in Auckland,
Palmerston North and
Christchurch. Available
nationwide.



Dimensions are in mm and nominal and may vary with manufacturing and installation tolerances. Please check with your local Metalcraft Roofing branch.

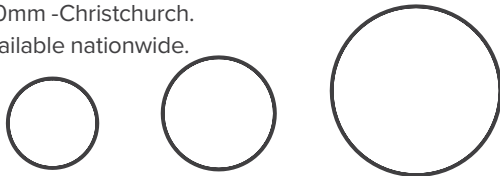
For more information on installation, maintenance and warranty, please visit: www.metalcraftroofing.co.nz

DOWNPIPES

| GUTTER TYPE | EXTERNAL DIMENSION (mm) | INTERNAL DIMENSION (mm) | MANUFACTURING LOCATIONS | TOTAL CROSS SECTIONAL AREA (mm ²) |
|----------------------|-------------------------|-------------------------|--------------------------|---|
| 80mm ROUND DOWNPIPE | 81.5mm | 79mm | CHRISTCHURCH TAURANGA | 4902mm ² |
| 100mm ROUND DOWNPIPE | 103mm | 101mm | CHRISTCHURCH TAURANGA | 8012mm ² |
| 150mm ROUND DOWNPIPE | 159.5mm | 158mm | CHRISTCHURCH | 19607mm ² |
| RECTANGULAR DOWNPIPE | 76.5x56mm | 75x55mm | CHRISTCHURCH | 4125mm ² |

ROUND DOWNPIPE

80mm - Christchurch, Tauranga.
 100mm -Tauranga, Christchurch.
 150mm -Christchurch.
 Available nationwide.



RECTANGULAR DOWNPIPE

Manufactured in Christchurch.
 Available nationwide.

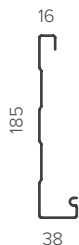


FASCIAS

Metalcraft Fascias provide for an attractive finish to any barge or eaves lines. They can be combined with a range of gutters to suit any style of home. Each Fascia comes with specially designed custom fixing brackets, ensuring a secure installation for both eaves and barge applications. For more technical product information download from www.metalcraftroofing.co.nz.

FASCIA 185

Manufactured in Palmerston North, Hamilton, Christchurch, Cromwell and New Plymouth.



FASCIA 155

Manufactured in Wellington, Whangarei, Tauranga and Auckland.
 Available nationwide.



FASCIA 135

Manufactured in Auckland
 Available nationwide.



PRODUCT APPLICATION

Metalcraft Roofing's gutters, downpipes and fascia's The correct application of each grade of material is critical to product performance and life expectancy. Before commencing a project the user must refer to the COLORSTEEL® Residential Warranty, Environmental Categories & Product Maintenance Guide and Metalcraft Roofing's product information.

Further information including installation, warranty and maintenance are available from Metalcraft branches and freely viewable and downloadable at: www.metalcraftgroup.co.nz.

For more information on COLORSTEEL® products, visit: www.colorsteel.co.nz or www.nzsteel.co.nz.

It is important that the requirements of these guides are taken into account when making the selection of the material to be used.

Installation of is as per the NZMRM Code of Practice. www.metalroofing.org.nz

MAINTENANCE

Regular washing of pre-painted and metallic-coated products increases their durability by reducing attacks from airborne salts and pollutants.

Washing may be carried out with a hose and a soft bristle brush, using fresh water or a 10% solution of household detergent and water followed by a thorough rinse with clean water. Alternatively, low-pressure water blasting can be used at pressures up to 20 MPa, with the jet directed away from openings and sheet laps.

For more information on maintenance requirements please refer to NZMRM Code of Practice, www.metalroofing.org.nz

WARRANTIES

Material warranties are closely linked to environmental categories. The correct grade of material for use in various environments is given in the COLORSTEEL® Residential Warranty, Environmental Categories & Product Maintenance Guide.

This can be downloaded from www.metalcraftroofing.co.nz

GUTTER LENGTHS

All gutters are subject to expansion. Maximum gutter-length is determined by the type of metal and its colour. Where gutters have an allowance for expansion (such as an external gutter on a typical gutter bracket or an internal gutter with sliding clips), lengths should be restricted to 25 m in steel and 12 m for copper or aluminium.

An expansion joint can be either a sump, rainwater head or a saddle flashing. Gutters that are directly through-fastened to the fascia or eaves purlin will not be free to move and should be restricted to a maximum of 12 m. Through-fastened gutters are not recommended as they are difficult to replace.

Refer to NZMRM Code of Practice on www.metalroofing.org.nz or Metalcraft Roofing website: www.metalcraftgroup.co.nz

HANDLING AND STORAGE

Don't handle any products roughly or carelessly; gutters, downpipes and fascias perform best when handled correctly.

Don't drag or slide roofing sheets or building products over the gutter and fascias.

Refer to Metalcraft's Rainwater Installation Guide for more information or the NZMRM www.metalroofing.org.nz. Some important considerations are as follows:

- Site Storage which ensures that products are kept dry. Reducing risk of surface damage to surface coatings during handling, installation and by other trades.
- Ensuring that correct and sufficient fasteners are used.
- Installation in contact with incompatible materials is avoided.

Download the Rainwater Installation Guide from www.metalcraftroofing.co.nz.

DOWNPIPE PLACEMENT

Placement of downpipes significantly affects gutter and downpipe calculations. Refer to NZMRM Code of Practice for more information www.metalroofing.org.nz.

GUTTER FALL

Its important that all gutters are installed with a consistent fall towards the nearest downpipe, this provides for good drainage.

All gutters must have a minimum fall of 1:500 (2 mm in 1 m), the NZMRM Code of Practice recommends 1:200 (5 mm in 1 m), as it will improve drainage and self-cleaning.

GUTTER SUPPORT SYSTEMS

The spouting bracket system must withstand the potential weight of a gutter full of water. In snow load areas, spouting may be fitted with snow straps and brackets at a maximum of 600 mm centres to withstand the additional potential weight of any snow build-up.

Brackets should be made using compatible material or non-ferrous metal. Brackets for pre-painted external gutters should be painted or powder coated before installation.

Brackets for external gutters should be located close to all stop-ends, at both ends of sumps and rain-heads at a maximum of 750 mm spacing for gutters less than 180 mm wide, and at 600 mm for gutters 180 – 300 mm wide. Brackets must be installed to provide a 1:500 (2 mm per metre) minimum gutter gradient towards the outlets.

DISCLAIMER

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.

This publication is issued as a general guide only and should not be treated as a substitute for technical advice. Contact with your nearest Metalcraft branch is recommended to confirm current specifications and availability.

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Metalcraft
Roofing

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

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For more information on Metalcraft Roofing visit:
www.metalcraftroofing.co.nz .
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