

SPECIFICATION

of work to be done and materials to be used in carrying out the works shown on the accompanying drawings

~

(project name)

~

(project address)

~

(owners name)

Job Number: ~

Date: ~

7411M METALCRAFT ROOFING RAINWATER SPOUTING SYSTEMS

1. GENERAL

This section relates to **Metalcraft Roofing** rainwater disposal systems including gutters fascias and downpipes.

1.1 RELATED WORK

Refer to ~ for ~.

1.2 ABBREVIATIONS AND DEFINITIONS

Refer to the general section 1232 INTERPRETATION & DEFINITIONS for abbreviations and definitions used throughout the specification.

The following abbreviations apply specifically to this section:

BMT	Base metal thickness
NZMRM	New Zealand Metal Roofing Manufacturers Inc
Gutter	In this section includes spouting

Documents

1.3 DOCUMENTS

Refer to the general section 1233 REFERENCED DOCUMENTS. The following documents are specifically referred to in this section:

NZBC E1/AS1	Surface water
AS 1273	Unplasticised PVC (uPVC) downpipe and fittings for rainwater
NZMRM CoP	NZ metal roof and wall cladding Code of Practice

1.4 MANUFACTURER/SUPPLIER DOCUMENTS

Manufacturer's and supplier's documents relating to this part of the work:
Are available on the website or by contacting Metalcraft Roofing.

For technical assistance contact **Metalcraft Roofing**

Web: www.metalcraftroofing.co.nz

Warranties

1.5 WARRANTY - MANUFACTURER/SUPPLIER

Warrant this work under normal environmental and use conditions against:

10 years:	Failure of coating adhesion (manufacturer's standard warranty)
10 years:	Weatherproofing failure caused by material penetration as a result of corrosion (manufacturer's standard warranty)
3 years:	Weatherproofing failure caused by substandard workmanship

From: Date of completion of installation

Refer to the general section 1237 WARRANTIES for additional requirements.

Requirements

1.6 NO SUBSTITUTIONS

Substitutions are not permitted to any specified system, or associated components and products.

1.7 QUALIFICATIONS

Installers to be experienced competent gutter installers, familiar with the **MetalcraftRoofing** materials and the techniques specified.

1.8 MAINTENANCE INSTRUCTIONS

Provide one bound copy of all relevant **Metalcraft Roofing** maintenance information on completion of the roofing work.

Performance

- 1.9 TEST
Test the completed rainwater disposal system with water to ensure gutters are laid to correct falls, that both spouting and downpipes are unobstructed and that no ponding occurs in gutters. Comply with E1/AS1.

2. PRODUCTS

Materials

- 2.1 GUTTERS
Complete with matching brackets with fixing screws to suit the gutter / fascia. Refer to SELECTIONS for type.
- 2.2 DOWNPIPES
To AS 1273 Unplasticised PVC (uPVC) downpipe and fittings for rainwater. Complete with stand-off brackets, galvanized screw fixed. Refer to SELECTIONS for type.

Components

- 2.3 DROPPERS
Steel or plastic droppers, sized to fit inside the downpipe.
- 2.4 DOMES
Wire mesh in round form with legs to clip inside the outlet opening to the downpipe.
- 2.5 GUTTER MESH
Flexible plastic mesh fitted into the gutter to the mesh manufacturer's requirements.

3. EXECUTION

Conditions

- 3.1 HANDLE AND STORE
Handle and store downpipes, spouting and accessories to avoid damage. Store on site under cover, on a clean level area, stacked to eliminate movement and away from work in progress. Avoid exposure to sunlight if strippable film is still on the product.
- 3.2 SUBSTRATE
Check that fascia, barges or cladding are level and true to line and face and will allow work of the required standard without distortion to the product alignment. Do not proceed until they are up to standard.
- 3.3 THERMAL MOVEMENT
Make adequate provision in the fixing and jointing of the spouting for thermal movement in the length of the spouting. Provide an expansion joint in spouting over 12 metres in length for steel gutter.
- 3.4 CORROSION
Separate metals subject to electrolytic action from each other and from treated timber, concrete and other lime substances by space, painting of surfaces, taping, or separator strips.

Check compatibility of metals used for rainwater goods, against the materials being used for roofing and flashings.

Application - metal

- 3.5 INSTALL METAL GUTTER AND FASCIA
Establish minimum falls necessary (minimum 1:500) to outlets to prevent ponding and screw fix brackets true-to-line at 900mm centres maximum. In areas where snow fall is

possible and or high wind areas, the centres should be reduced to 600mm. Lap spouting joints in direction of flow, a minimum of 40mm to seal between and over the top of joint and seal with silicone sealant and fix with rivets. Ensure the joint is fixed over its full girth. Cut out neatly for and fit the pre-formed downpipe dropper and rivet and seal around the joint. All installation to **Metalcraft Roofing** details and [NZMRM CoP](#) NZ metal roof and wall cladding Code of Practice recommendations.

3.6 INSTALL PVC DOWNPIPES

Install downpipes complete with 115 degree angle bends as needed with all joints lapped and glued. Galvanize screw fix with PVC pipe clips to rigidly stand 40mm off the wall plumb and discharging into stormwater gully or inlet pipe. All installation to **Metalcraft Roofing** details and [NZMRM CoP](#) NZ metal roof and wall cladding Code of Practice recommendations.

3.7 INSTALL RAINWATER HEADS

Install using rivets where required to detail as shown on drawings. Ensure colour matched blind aluminium rivets are used when joining metal surfaces.

3.8 INSTALL OVERFLOWS

Install as close as practical to downpipe locations, at a height allowing water to discharge to the outside and not into the building.

3.9 INSTALL PROTECTION

Fit wire mesh domes to downpipe outlets and plastic mesh to spouting to the spouting manufacturer's requirements.

Completion

3.10 REPLACE

Replace damaged or marked elements.

3.11 LEAVE

Leave the whole of this work discharging completely and freely into the stormwater system and free of all debris. Leave work to the standard required by following procedures.

3.12 REMOVE

Remove debris, unused materials and elements from the site.

4. SELECTIONS

Substitutions are not permitted to the following, unless stated otherwise.

4.1 METALCRAFT ROOFING RIBLINE FASCIA AND CONCEALED GUTTER SYSTEM

Profile: Ribline
Gutter material: ~
Cross section: ~mm²
Coating system: ~
Colour: ~

4.2 METALLINE GUTTER / FASCIA SYSTEM

Profile: ~
Size: ~
Cross section: ~mm²
Base material: Steel
BMT: 0.55mm
Coating system: ~
Colour: ~

4.3 METALCRAFT ROOFING GUTTER SYSTEMS

Profile: ~
Base material: steel
BMT: 0.55mm
Cross section: ~mm²

Coating system: ~
Colour: ~

4.4 COLOURSTEEL DOWNPIPES

Profile: ~
Size: ~
Coating system: ~
Colour: ~

4.5 PVC DOWNPIPES

Profile: ~
Size: ~

4.6 DOMES

Metal: ~

4.7 LEAF MESH

Brand: Leaf Guard™ Leaf Extruder

