

# 7411MA MARLEY RAINWATER DISPOSAL SYSTEMS

## 1. GENERAL

This section relates to **Marley** rainwater disposal systems.

It includes;

- uPVC spouting and downpipes
- Stratus Design Series® spouting and downpipes

### 1.1 RELATED WORK

Refer to ~ for ~

#### Documents

### 1.2 DOCUMENTS

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

- [NZBC E1/AS1](#) Surface water
- [NZBC E2/AS1](#) External moisture
- [AS/NZS 4020](#) Testing of products for use in contact with drinking water

### 1.3 MANUFACTURER/SUPPLIER DOCUMENTS

Manufacturer's and supplier's documents relating to this part of the work:

- Marley Rainwater Sales Brochures
- Marley Product Catalogue
- Marley - Spouting and Downpipe DIY Installation Guide
- Marley Stratus Design Series® Sales brochure
- Marley Stratus Design Series® - Design and installation guide

Manufacturer/supplier contact details

- Company: **Marley New Zealand Limited**
- Web: [www.marley.co.nz](http://www.marley.co.nz)
- Email: [info@marley.co.nz](mailto:info@marley.co.nz)
- Telephone: 0800 MARLEY (0800 627 539)

#### Warranties

### 1.4 WARRANTY - MANUFACTURER/SUPPLIER

Provide a material manufacturer/supplier Guarantee:

15 years: Against defects in material and manufacture

- Commence the guarantee from the date of purchase
- Refer to Marley NZ Guarantee available at [www.marley.co.nz](http://www.marley.co.nz)

Refer to the general section 1237 WARRANTIES for additional requirements.

### 1.5 WARRANTY - INSTALLER/APPLICATOR

Provide an installer/applicator warranty:

~ years: For installation

- When installed to Marley's published installation instructions at time of installation.
- Provide this warranty on the installer/applicator standard form.
- Workmanship warranty to be issued separately by the installer
- Commence the warranty from the date of practical completion of the contract works.

Refer to the general section 1237 WARRANTIES for additional requirements.

#### Requirements

### 1.6 QUALIFICATIONS

Installers to be experienced, competent workers familiar with the materials and techniques specified.

- 1.7 **NO SUBSTITUTIONS**  
Substitutions are not permitted to any of the specified Marley systems, components and associated products listed in this section.

### **Performance**

- 1.8 **TEST**  
Test the completed Marley rainwater disposal system with water to ensure, spouting is laid to correct fall, that both spouting and downpipes are unobstructed and that no ponding occurs in spouting.
- 1.9 **DESIGN**  
Layout, falls and capacity of spouting to falls and the size and position of downpipes to comply with [NZBC E1/AS1](#).
- 1.10 **DRINKING WATER**  
All Marley spouting and downpipe systems are tested for the collection of rainwater and drinking purposes to [AS/NZS 4020](#). Care should be taken to ensure water is not contaminated by other sources.

## **2. PRODUCTS**

### **Materials**

- 2.1 **UPVC SPOUTING/DOWNPIPES**  
Marley uPVC spouting and downpipe systems in white and grey uPVC.
- 2.2 **STRATUS DESIGN SERIES® SPOUTING/DOWNPIPES**  
Marley Stratus Design Series® spouting and downpipe systems in co-extruded colour outer layer with grey uPVC internal layer.

### **Products**

- 2.3 **MARLEY SPOUTING**  
Marley spouting system, complete with Marley fittings including jointers, brackets, expansion outlets, end caps and corners supplied by Marley. Spouting to be sized to comply with [NZBC E1/AS1](#) and installed to [NZBC E2/AS1](#) 8.1.6, **Gutters**. Refer to SELECTIONS for type.
- 2.4 **MARLEY DOWNPIPES**  
Marley downpipe system, complete with Marley fittings including bends, clips, joiners and junctions supplied by Marley. Refer to SELECTIONS for type.

### **Components**

- 2.5 **MARLEY MCS SOLVENT WELDING CEMENT**  
Only Marley MCS® Solvent Welding Cement to be used in conjunction with the spouting and downpipe systems to manufacturer's instructions. Colour match to spouting or downpipes.
- 2.6 **EXPANSION OUTLET/DROPPERS**  
Marley expansion outlet/droppers, compatible with spouting and downpipe profile.
- 2.7 **SCREW FIXINGS - TIMBER FASCIA**  
Stainless steel, grade 304 finish, self tapping screws 6g x 20mm pan head or wafer head.
- 2.8 **NAIL FIXINGS - TIMBER FASCIA**  
Marley galvanised nails (MCNAILS).
- 2.9 **SCREW FIXINGS - METAL FASCIA**  
Self drilling tek screws 6g pan head or wafer head.

- 2.10 FABRICATION  
Special items can be fabricated by Marley to specific dimensions on request including but not limited to angle flats, angle rakes, outlets and adaptors.

### 3. EXECUTION

#### Conditions

- 3.1 HANDLING AND STORAGE  
Handle and store Marley 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. Store out of direct sunlight. Refer to Marley installation guides for further details.
- 3.2 SUBSTRATE  
Check that fascias, 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 jointing of the spouting for thermal movement in the length of the spouting by using Marley expansion joiners and/or expansion outlets. Refer to Marley expansion technical information.
- 3.4 ENVIRONMENTAL  
Marley Spouting and Downpipe systems are suitable for most environmental conditions and will never rust, rot or corrode.
- 3.5 RECYCLING  
All Marley manufactured spouting and downpipe systems are 100% recyclable and Marley operates recycling programs with industry suppliers where uPVC pipes can be returned from site for recycling at Marley.

#### Application

- 3.6 INSTALL MARLEY SPOUTING  
Install to Marley's current published installation instructions available at [www.marley.co.nz](http://www.marley.co.nz). Ensure only Marley MCS<sup>®</sup> Solvent Welding Cement to be used in conjunction with the spouting systems to manufacturer's instructions. From high points fix brackets true-to-line to give a fall of 5mm every 10 metres to outlets. Set spouting brackets at 500mm centres; reduce to 300mm spacing for high wind zones or areas subject to occasional snowfalls. Make adequate provision for thermal movement.
- 3.7 INSTALL MARLEY DOWNPIPES  
Install to Marley's current published installation instructions available at [www.marley.co.nz](http://www.marley.co.nz). Ensure that all joints are sealed properly using Marley MCS<sup>®</sup> Solvent Welding Cement. Assemble downpipes, solvent cement jointed complete, fit to outlets, fix with pipe clips every 1.2 metres, fix pipe clips with 304 stainless steel screws, plumb and discharging into the stormwater gully or pipe inlet to the Marley required practice.

#### Painting Marley uPVC spouting/downpipes

- 3.8 PAINTING  
After installation use a mineral based undercoat and two coats of 100% weatherable acrylic paint. Do not paint the inside of spouting or internal brackets.

#### Completion

- 3.9 REPLACE  
Replace damaged or marked elements.

3.10 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.

3.11 REMOVE  
Remove debris, unused materials and elements from the site.

#### 4. SELECTIONS

For further details on selections go to [www.marley.co.nz](http://www.marley.co.nz)  
Substitutions are not permitted to the following, unless stated otherwise.

##### uPVC system - spouting

#### 4.1 MARLEY UPVC SPOUTING - CLASSIC™

Manufacturer: Marley  
Profile/type: Marley Classic™  
Size: 128mm  
Cross section: 6700mm<sup>2</sup>  
Colour: White  
Bracket type: Internal

#### 4.2 MARLEY UPVC SPOUTING - STORMCLOUD®

Manufacturer: Marley  
Profile/type: Marley Stormcloud® quarter-round  
Size: 123mm  
Cross section: 5100mm<sup>2</sup>  
Colour: White  
Bracket type: Internal

#### 4.3 MARLEY UPVC SPOUTING - FL2®

Manufacturer: Marley  
Profile/type: Marley FL2®  
Size: 128mm  
Cross section: 4800mm<sup>2</sup>  
Colour: White  
Bracket type: ~

#### 4.4 MARLEY UPVC SPOUTING - TYPHOON®

Manufacturer: Marley  
Profile/type: Marley Typhoon® half-round  
Size: 133mm  
Cross section: 6100mm<sup>2</sup>  
Colour: White  
Bracket type: ~

#### 4.5 MARLEY UPVC SPOUTING - MAGNUM®

Manufacturer: Marley  
Profile/type: Marley Magnum® half-round  
Size: 189mm  
Cross section: 14,300mm<sup>2</sup>  
Colour: Grey  
Bracket type: External

##### uPVC system - downpipes

#### 4.6 MARLEY UPVC DOWNPIPES - RP65®

Manufacturer: Marley  
Profile/type: Marley RP65® 65mm Round  
Size: 65mm  
Colour: White  
Bracket type: ~

- 4.7 MARLEY UPVC DOWNPIPES - RP80<sup>®</sup>  
 Manufacturer: Marley  
 Profile/type: Marley RP80<sup>®</sup> 80mm Round  
 Size: 80mm  
 Colour: White  
 Bracket type: ~
- 4.8 MARLEY UPVC DOWNPIPES - RECTANGULAR 65  
 Manufacturer: Marley  
 Profile/type: Marley Rectangular 65  
 Size: 65mm x 50mm  
 Colour: White  
 Bracket type: ~
- 4.9 MARLEY UPVC DOWNPIPES - RECTANGULAR 100  
 Manufacturer: Marley  
 Profile/type: Marley Rectangular 100  
 Size: 100mm x 50mm  
 Colour: White  
 Bracket type: ~
- 4.10 MARLEY UPVC DOWNPIPES - MAGNUM<sup>®</sup>  
 Manufacturer: Marley  
 Profile/type: Marley Magnum<sup>®</sup> 100mm Round  
 Size: 110mm  
 Colour: Grey  
 Bracket type: Stand off

#### **Stratus Design Series<sup>®</sup>**

- 4.11 MARLEY STRATUS DESIGN SERIES<sup>®</sup> SPOUTING - STORMCLOUD<sup>®</sup>  
 Manufacturer: Marley  
 Profile/type: Marley Stormcloud<sup>®</sup> quarter-round  
 Size: 123mm  
 Cross section: 5100mm<sup>2</sup>  
 Bracket type: Internal  
 Colour: ~
- 4.12 MARLEY STRATUS DESIGN SERIES<sup>®</sup> SPOUTING - TYPHOON<sup>®</sup>  
 Manufacturer: Marley  
 Profile/type: Marley Typhoon<sup>®</sup> half-round  
 Size: 133mm  
 Cross section: 6100mm<sup>2</sup>  
 Bracket type: ~  
 Colour: ~
- 4.13 MARLEY STRATUS DESIGN SERIES<sup>®</sup> DOWNPIPES  
 Manufacturer: Marley  
 Type: RP80<sup>®</sup> downpipe  
 Profile: Round profile  
 Size: 80 mm round  
 Bracket type: ~  
 Colour: ~

#### **Miscellaneous items**

- 4.14 MARLEY DOWNPIPE SPREADERS  
 Manufacturer: Marley  
 Type: ~  
 Colour: ~
- 4.15 MARLEY RAINWATER GULLY  
 Manufacturer: Marley

Type: Untrapped rainwater gully

4.16 MARLEY LEAFSLIDE®  
Manufacturer: Marley  
Size: To fit 80mm downpipe  
Material: uPVC  
Colour: ~

4.17 MARLEY MISCELLANEOUS ITEMS  
Manufacturer: Marley  
Item: ~

**Painting**

4.18 PAINTING  
Brand/type: ~  
Finish/colour: ~