MARLEY SPOUTING AND DOWNPIPE SYSTEMS

<section-header><section-header><text>





Rainwater Solutions

ABOUT MARLEY

Marley spouting and downpipes have been produced for New Zealand conditions for over 40 years. The Marley spouting and downpipe systems offer clean lines and a smart finish that will enhance the look of your home and protect it against nature's elements.

CONTENTS:

About Marley	.1
Spouting range	. 2
Spouting & downpipe selection	. 3
Installing spouting	. 5
Installing downpipe	. 7
Repairing spouting	. 8
Painting spouting & downpipe	.9
Rainwater collection	10

Page





U.V. RESISTANT

٠

•

15 year guarantee on all Marley spouting and

Resilient in high wind and snow prone areas

THE BENEFITS OF CHOOSING MARLEY

All Marley manufactured products are 100% recyclable

Won't rust, rot or corrode even in salt affected areas

Marley is an ISO registered manufacturer - ISO14001 & ISO9001

GUARANTEE

PAINTABLE

SAFETY PRECAUTIONS

- Always keep tools and materials away from children
- Read the instructions before beginning your project
- You may need to seek permission from your local council and/or water and power authorities before beginning the project
- Marley recommend you consult a certified tradesperson before beginning the project, especially where connecting downpipes to Stormwater pipes

NEED AN INSTALLER?

downpipe products

UV stabilized

Contact your nearest Marley stockist for an installer. To find your nearest stockist visit www.marley.co.nz

TOOLS YOU WILL NEED



- String line/Chalk line
- Drill
- Builders Level
- Measuring Tape
- Methylated Spirits
- Hacksaw fine tooth PVC saw 🗸
- Marley Solvent Cement
- Paint if painting spouting refer to Paint Section
- Paint brush

- Hammer
- Screwdriver
- Ladder/Trestle/Planks
- Pencil

 \checkmark

1

1

- Cloth
- Squarerule Nails/Screws

1

CLASSIC SPOUTING

Based on an original Roman design, the Classic shape is best suited to villa's and traditional colonial style homes. Classic has internal brackets for a smooth finish.

STORMCLOUD SPOUTING

Stormcloud is the perfect spouting for people who wish to retain the existing look of their home while enjoying the low maintenance and long life benefits of uPVC. Stormcloud has a similar shape to traditional quarter round spouting and offers an internal bracket for a smooth finish.

FL2 SPOUTING

The high front edge of FL2 captures large water flow and masks untidy roof edges. The clean face also offers a subtle design to complement any roof line. FL2 is available with internal brackets for a smooth finish or external brackets for ease of cleaning.

TYPHOON SPOUTING

Typhoon's contemporary style with the high front, half-round shape and large capacity allows better water flow and makes cleaning easier. Typhoon comes with internal brackets for a smooth finish or external brackets for ease of cleaning.

OVATION SPOUTING

Ovation's smooth design integrates with any architectural style. Designed for optimum hydraulic performance (with unique downpipe) and concealed internal brackets for a smooth finish.

MAGNUM SPOUTING

Magnum is a large capacity rugged half round uPVC spouting system and is ideally suited for large roof areas in residential, commercial and rural applications. Magnum comes in grey with external brackets for ease of cleaning and a 100mm downpipe.

To learn more about the Marley spouting and downpipe systems visit **www.marley.co.nz** to download product details and watch the video on the Marley spouting range.



Cross sectional area 6700mm²



















WHAT SPOUTING AND DOWNPIPE DO I NEED FOR MY PROJECT?

PLANNING

Use the steps below to calculate which spouting and downpipe you need for your project. Remember that if the profile you want is not available you can have it in-store within 48 hours using Flexipak, the customised ordering service from Marley.





Step 2 - Establish how many downpipes are needed using roof plan table (Fig.B) below.

Fig A	Plan area of roof served by the downpipe in m ²					
Doof Ditch	Eclipse/round	Round 80mm/rectangular				
	65mm/rectangular 65x50mm	100x50mm				
0°- 25°	60	100				
25°-35°	50	80				
35°-45°	40	70				
45°-55°	35	60				

Fig B Gable End Roof

Using the gable end roof example (Fig B) - for a roof area of $80m^2$ and a roof angle of 23° , you will require either of the following downpipe options.



Option 1 - as one round 80mm/rectangular 100x50mm downpipe services a roof area of 100m², then a roof area of 80m² would require one downpipe.

Option 2 - as one eclipse/round 65mm/rectangular 65x50mm downpipe services a roof area of 60m², then a roof area of 80m² would require two downpipes.

> *Based on Average Rainfall Intensity of 100mm per hour. (E1-Surface Drainage Building Code 2002)





SF	POUTING - Please circle the prod	duct and ind	icate the quantit	y you require						
	Component			Classic	Stormcloud	FL2	Typhoon	Ovation	Magnum	Qty Requirement
1	Spouting 3m length			MC1.3	MS1.3	FL1.3	MT1.3	-	-	
1	Spouting 4m length			-	-	-	-	LG38B	MAG1.4	
1	Spouting 5m length		MC1.5	MS1.5	FL1.5	MT1.5	-	-		
2	External bracket - secure brackets no more than 500mm apart		-	-	FL2E	MT2E	-	MAG2E		
3	Internal/spouting bracket - secure brackets	no more than 5	500mm apart	MC2	MS2	FL2I	MT2I	UBHGB38B	-	
4	Spouting stopend (LH) - left hand stopend f	or spouting		MC3	MS3	FL3	MT3	UFG38B	MAG9	
6	Spouting stopend (RH) - right hand stopend	for spouting		MC4	MS4	FL4	MT4	UFD38B	MAG9	
6	Spouting joiner			MC5	MS5	FL5	MT5	UJNC38B	MAG5	
0	Expansion joiner - use on runs exceeding 10m unless expansion outlet is present			MC17	MS17	FL17	MT17	UJND38B	MAG17	
8	External corner 90°		MC6	MS6	FL6	MT6	UAEC38B	MAG6		
9	Internal corner 90°			MC7	MS7	FL7	MT7	UAIC38B	MAG6	
10	Dropper outlet 65mm - use instead of expansion outlet on short runs			MC11.65	MC11.65	MC11.65	-	-	-	
0	Dropper outlet 80mm - use instead of expan	sion outlet on	short runs	MC11.80	MC11.80	MC11.80	MT11.80	-	-	
0	Dropper outlet 100mm - use instead of expa	nsion outlet or	n short runs	MC11.100.50	MC11.100.50	MC11.100.50	-	-	MAG8.100	
Ð	Expansion outlet 65mm - compatible with RF	P65 & MC16 dov	wnpipes	MC8.65	MS8.65	FL8.65	-	-	-	
Ð	Expansion outlet 80mm - compatible with RF	280 & HR80 dov	wnpipes	MC8.80	MS8.80	FL8.80	MT8.80	-	-	
Ð	Expansion outlet 100x 50mm - compatible wi	th MC140 dowr	npipes	MC8.100	MS8.100	FL8.100	-	-	-	
Ð	Expansion outlet 100mm - compatible with M	lagnum downpi	pes	-	-	-	-	-	MAGE8.100	
Ð	Expansion outlet 105x76mm - compatible wit	th Ovation down	npipes	-	-	-	-	UNAD381B	-	
12	Expansion outlet stopend (LH) - left hand sto	pend for expan	ision outlet	-	-	FL8.LH	-	UFGC38B	MAG8	
B	Expansion outlet stopend (RH) - right hand s	topend for expa	ansion outlet	-	-	FL8.RH	-	UFDC38B	MAG8	
10	Backplate - replacement backplate for expan	ision outlet		MC8B	MC8B	MC8B	MC8B	-	-	
Ð	Marley solvent cement (MCS) - 180g tube			MCS	MCS	MCS	MCS	MCS	MCS.GY	
	Galvanised nails - 150 per pack		MCNAILS	MCNAILS	MCNAILS	MCNAILS	MCNAILS	MCNAILS		
10	Oulet Strainer			RWST	RWST	RWST	RWST	RWST	RWST	
	Ovation cutting template		-	-	-	-	UGAB38	-		
	Magnum rainnead			-	-	-	-	-	MAGRH.100	
DOWNPIPES - Please circle the product and indicate the quantity you require										
	Component	Round 65mm	Round 80mm	Rectangular 65 x 50mm	Rectangular 100 x 50mm	Ecli	pse	Ovation	Magnum (grey)	Qty Requirement
1	Downpipe 3m length - socketed at one end	RP65	RP80	MC16 (not socketed)	MC140 (not socketed)	HR:) (not soc	80 cketed)	TD1073B (not socketed)	RP100.GY.4 (4m length)	
18	Downpipe joiner/joining socket	RS65	RS80	MC14	MC149	RH.8	80.J	UZMGTB	-	
19	Downpipe clip - saddle	RC65	RC80	MC22	MC144	HR.8 (conce	80.C ealed)	-	-	
20	Downpipe clip - stand-off/2-part	RC65.2	RC80.2	MC22S	MC144S	-		UCOMGTB	140.100HB	
	Socket bend - 15 & 45°	-	-	-	MC145 (45°)	-		UCM1GTB (15°)	-	
21	Socket bend - 95°	RB2.65	RB2.80	MC13	MC142	HR.80.950E HR.80.95I	3 (outside) B (inside)	UCM8GTB (87°)	RB2.100.GY (88°)	
22	Socket bend - 112°	RB3.65	RB3.80	MC12	-	-		-	-	
	Flat bend/reverse face elbow - 85°, 90° & 95°	-	-	-	MC146 (95°)	RH.80.85	FB (85°)	UCM9GTB (90°)	-	
6	Reverse face elbow 45°	-	-	-	MC147	-		-	-	
G	Junction - 95°	KJ65	KJ80	MC20 (112°)	MC1481	-		-	-	
	Transition adaptor to round 65mm	-	-	MC10 65	-	-		-	-	
Ø	Transition adaptor to round 80mm	RA65.80	RAS80 (AHT 80mm)	MC19.80	MC141.80	- HR 80	D.BA	-	_	
9	Transition adaptor to round 90mm	RA65.90	RA80.90		MC141.90	-		UPCU107B	-	
	Transition adaptor from round 80mm to Eclipse	-	-	-	-	HR.8	0.TA	-	-	
25	Downpipe diverter	-	RWDD	-	-	-		-	-	
20	Downpipe spreader kit	_	SKIT80	-	-	-		_	_	

For more information, go to www.marley.co.nz to download the quantifying guide

-

CS80

27 End cap

HOW DO I INSTALL MY SPOUTING?

Marley spouting and downpipes are intuitively designed as a modular system, making repair and replacement much simpler. There is a technical element to installing Marley spouting. If you are unsure, Marley recommend you seek advice from a trade professional. The steps below are an easy installation guide, for comprehensive installation instructions please visit www.marley.co.nz.



1 Tools and Materials



2 Preparation

Assemble your scaffold and drop cloth around your work area and ensure appropriate safety equipment is at hand. Check the roof overhang beyond fascia is less than 50mm.







3 Low Points Establish low points of installation. These are identified by existing downpipes or stormwater outlets.



String line/Chalk line Secure string line to fascia, using a screw from the first bracket to the low point. Use Fig 1 as reference. Ensure a fall of 5mm for every 10m of run.



5 Brackets

Mark and secure brackets no more than 500mm apart. In high wind or snow prone areas reduce spacing to 300mm. Use a minimum of 3 nails or 3 stainless steel screws per bracket. Minimum screw is No.6x25mm coarse thread countersunk. NB: Gib clouts must NOT be used.



6 Outlet back plate (low point) Use the back plate to ensure outlet is straight against string line. In a run exceeding 10m an expansion outlet or expansion joiner must be used and remember do not solvent cement spouting into expansion outlet.

Remember to only use Marley solvent cement (MCS) when installing Marley spouting and downpipe.

HOW TO SOLVENT CEMENT YOUR FITTINGS



1 Surface areas to be joined must be clean, dry and free from burrs.



2 Marley solvent cement (MCS) shou applied evenly to both surfaces being





Outlets Secure outlet to back plate. Place brackets within 50mm either side of outlet.



8 Corners

When required, solvent cement corners onto correct end of the spouting using Marley solvent cement (MCS).



9 Installation

For internal brackets, position front of spouting into front of bracket, then roll spouting into back of bracket until secure. For external brackets, position back of spouting into back of bracket, then roll spouting into front of bracket until secure. See www.marley.co.nz for specifics on each spouting profile.



Expansion Outlet

Bring the two lengths of spouting together to marked point on expansion outlet. For key to temperature graduation on expansion outlets see comprehensive installation instructions at www.marley.co.nz.



Corners

Solvent cement any remaining corners and use an expansion joiner to connect any remaining lengths.



Check

Check project is safe and complete. Clean any excess Marley solvent cement (MCS) from corners or joiners to minimise potential pooling of water. Ensure spouting is correctly secured to each bracket and space has been provided for expansion and contraction.





Note: Grey MCS is available for Magnum spouting





HOW DO I INSTALL MY DOWNPIPE?

Marley downpipes are designed to be impact resistant, which means they are ideal for use around the home. Marley downpipes are also suitable for the collection of rainwater for drinking purposes. For more technical information on downpipe installation see www.marley.co.nz.





1 Install expansion outlet as per spouting installation instructions.



Connect downpipe bend to expansion outlet using a screw to hold bend in place. Do not solvent cement bend to outlet.



3 Determine the offset length (A) using Figure 2 allowing for depth of socket and taking into consideration the downpipe bracket distance from the wall (B). Cut downpipe as per measurements.



Solvent cement all remaining elbows to downpipe on ground, before completing offset installation.



• Use a level or plumb line to mark where the downpipe will sit against the wall. Ensure brackets are spaced no more than 1.2m apart.



6 Connect downpipe to access pit, surface drainage or stormwater outlet.



Ensure brackets are secured with at least two stainless steel screws, so the downpipe can be removed for cleaning if necessary. Note - Marley spouting and downpipes are not designed for a concealed system or for use in wall cavities.



8 Check project is complete and joints are clean.

HOW DO I REPAIR MY SPOUTING?

Marley systems are designed for easy replacement of individual components. Below are easy instructions for repair and maintenance of your spouting.



REPAIR DAMAGED SPOUTING



1 Mark and cut 50mm inside bracket either side of damaged area.



Place any damaged brackets. Place joiner and expansion joiner then measure distance in between for replacement piece.



3 Cut replacement section on ground and solvent cement a joiner and expansion joiner to each end.



Solvent cement replacement section into damaged area. Remove any excess Marley solvent cement (MCS).



5 Check remainder of house for other possible damages.



FIXING SPOUTING CREEP



1 Spouting creep is when expansion and contraction does not occur in a conventional manner and may result in spouting pulling out of the expansion outlet or pushing into outlet and causing blockages.



2 Re-attach spouting to expansion outlet. Use spouting installation instructions as a reference.



3 Secure spouting to fascia using a screw at the point furthest from the expansion outlet in the same run.

HOW DO I PAINT MY SPOUTING?

You can also personalise your look by painting any of the Marley spouting and downpipe products and accessories. Remember to allow for greater expansion/ contraction with dark colours and refer to your paint specialist for colour options.





After installation spouting and downpipe can be painted any colour (dark colours require additional expansion/contraction allowance). Clean spouting before painting, using methylated spirits.

For best results use a mineral based undercoat and two coats of 100% weatherable acrylic paint.

It is recommended that the ends of spouting in the expansion outlet be painted so when spouting contracts a white line is not visible. Painting must be carried out after installation (except in expansion outlets and expansion joiners) and do not paint the inside of spouting or the internal brackets.







Wash your spouting before you begin painting.

WHERE CAN I BUY MARLEY PRODUCTS?

To find your nearest Marley stockist visit www.marley.co.nz.



Get exactly what you want with Marley's customised ordering service, Flexipak. Ask in store to find out more.

HOW SAFE IS THE WATER YOU ARE COLLECTING?

The Marley Rain Harvesting systems comprises of a number of unique and cost effective components that are designed to work with the Marley uPVC range of spouting and downpipes to help make tank water as clean as possible. However, it is advisable to have your tank water analysed regularly to check its potability. When collecting potable water Marley recommend you seek advice from a registered tradesperson.



For more information on Marley Rain Harvesting products visit www.marley.co.nz

Other helpful resources for Marley Spouting and Downpipe Solutions.





DISCLAIMER

This technical catalogue has been compiled by Marley New Zealand Limited ("The Company") to promote better understanding of the technical aspects of the Company's products to assist users in obtaining from them the best possible performance. The technical catalogue is supplied subject to acknowledgment of the following conditions:

The technical catalogue is protected by Copyright and may not be copied or reproduced in any form or by any means in whole or in part without prior consent in writing by the Company.

Product specifications, usage data and advisory information may change from time to time with advances in research and field experience.

The Company reserves the right to make such changes at any time without notice.

orrect usage of the Company's products involve engineering judgements which cannot be properly made without full knowledge of all the conditions pertaining to each specific installation. The Company expressly disclaims all and any liability to any person whether supplied with this publication or not in respect of anything and of the consequences of anything done or omitted to be done by any such person in reliance whether whole or partial upon the whole or any part of the contents of this publication.

No offer to trade, nor any conditions of trading, are expressed or implied by the issue or content of this manual Nothing herein shall override the Company's Conditions of Sale, which may be obtained from the Registered Office or any Sales Office of the Company. This technical catalogue is and shall remain the property of the Company, and shall be surrendered on demand to the Company.

AUCKLAND - Mahia Road, Manurewa, Private Bag 802, Manurewa. Sales Department Tel: 09 279 2777 Direct Fax: 09 279 2778 Freefax: 0800 652 621 Head Office Tel: 09 279 2799 Fax: 09 279 2798 CONTACT CENTRE: 0800 222 922

CHRISTCHURCH Shands Road, Hornby, PO Box 16233 Christchurch. CONTACT CENTRE: 0800 222 922

WORKING WITH MARLEY FOR A BETTER TOMORROW

For more information: 0800 MARLEY (0800 627 539)

www.marley.co.nz



Rainwater Solutions

