

# Spouting & Downpipe

DIY Installation Guide



**DIY**  
made easy!

# Let's get started...

Marley has been making spouting and downpipes for kiwis for over 50 years. Proudly made in New Zealand, 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.

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Hi I'm Jack.

You may remember me from the Marley TV commercials in the late 80's-early 90's. I'll be your DIY guide providing helpful tips throughout this installation guide.



WON'T RUST



U.V.  
RESISTANT



15 YEAR  
GUARANTEE



COLOUR  
RANGE



100%  
RECYCLABLE



SUITABLE FOR  
DRINKING WATER

# Which style is right for me?

Marley offers a wide range of spouting and downpipe profiles to suit a variety of house styles and rainfall levels. Choose from our most popular residential profiles below.

## Spouting Profiles



**Classic™** ●

The original Roman profile, suits villas and colonial houses.

**Brackets:** Internal



**FL2®** ●

Clean design with high front to hide untidy roof edges.

**Brackets:** Internal or External



**Stormcloud®** ●●●●

Versatile 1/4 round shape synonymous with Marley.

**Brackets:** Internal

NB: Flexipak only available for Stormcloud in Ironsand, Grey Friars and Black.



**Typhoon®** ●●●●●●●●

Contemporary half round design with large water capacity.

**Brackets:** Internal or External



## Downpipe Profiles



**RP65®**  
65MM ROUND  
DOWNPIPE



**RP80®**  
80MM ROUND  
DOWNPIPE



**65 x 50mm**  
RECTANGULAR  
DOWNPIPE



**100 x 50mm**  
RECTANGULAR  
DOWNPIPE



### Colour Key



Marley's range of uPVC downpipe systems can also be installed with metal spouting systems. Marley does not recommend installing its range of downpipes in wall cavities or in buried applications. Only Marley's round downpipe systems are to be used when installing a charged Rainwater collection system.

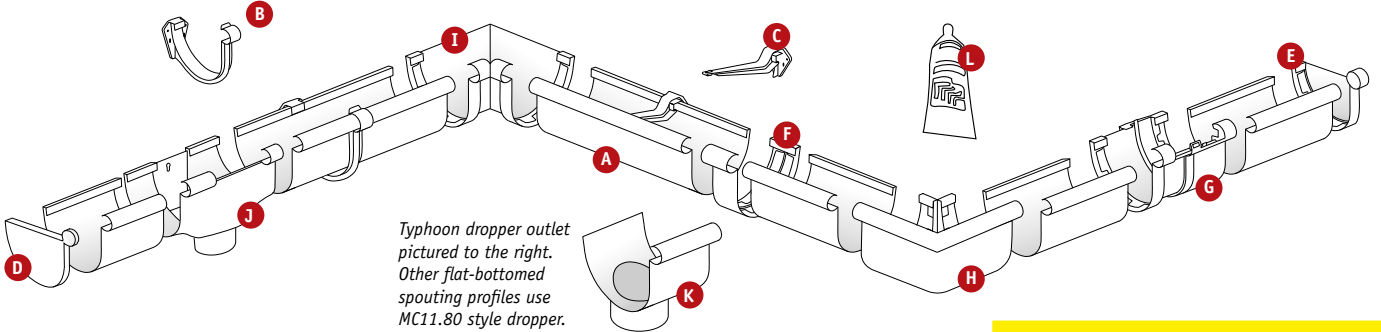


Selected non-stock items highlighted above can be ordered in custom quantities, utilising the Marley Flexipak service. Ask at your local merchant for more information.

For more detailed information relating to spouting and downpipe capacities refer to technical sections on each product page at [marley.co.nz](http://marley.co.nz)

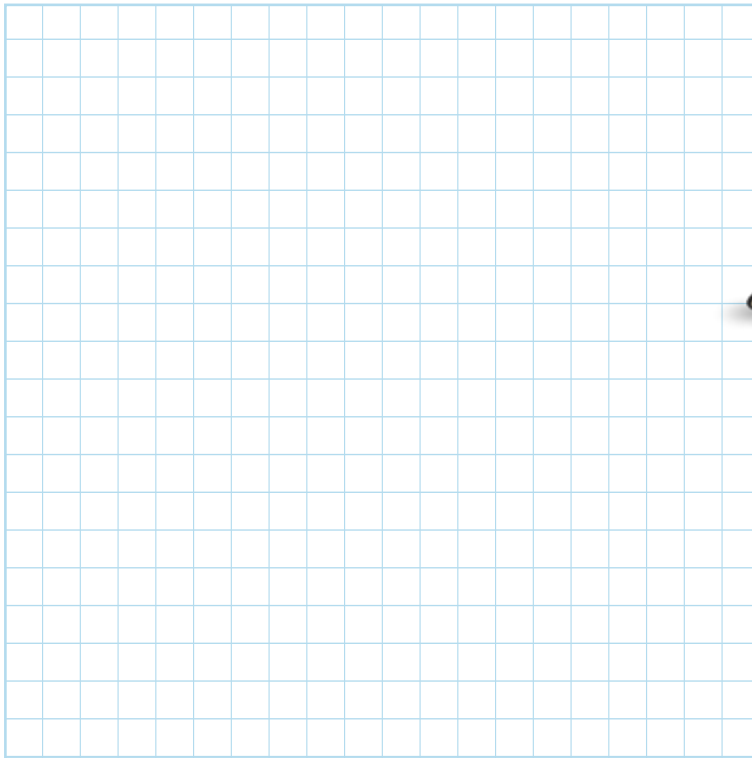
# Which components do I need?

## Spouting



## How much will I need?

Draw your roof with accurate measurements



## How big?

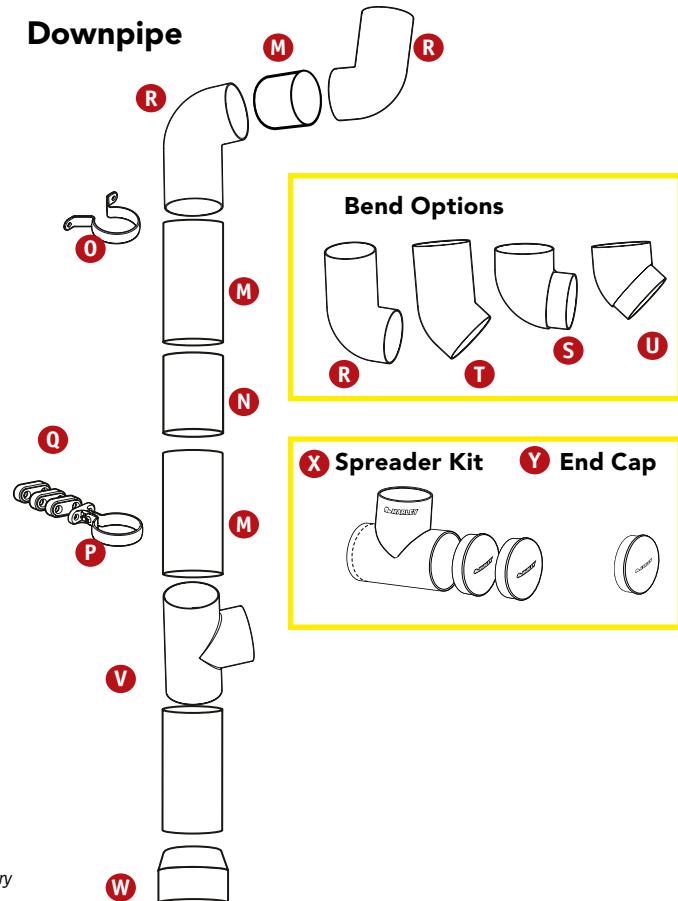
High rainfall areas, large houses or steep roofs may require a larger spouting profile to collect the rainwater and/or more downpipes to drain it!

If you are concerned about the current capacity or are replacing your entire spouting and downpipe system check the product technical page at [marley.co.nz](http://marley.co.nz) for the maximum capacity of each profile. Alternatively speak with your local merchant or call 0800 MARLEY for more advice.

Items I will need.

Item Code	Quantity	Item Code	Quantity

## Downpipe



NOTE: Marley's Typhoon® spouting system and RP80® 80mm round downpipe systems have been used as examples in the diagrams shown on this page - shape, functionality and availability of components will vary depending on the specific spouting or downpipe system.

## Spouting

Component	Classic™	FL2®	Stormcloud®	Stormcloud® Grey Friars	Stormcloud® Ironsand	Stormcloud® Black	Typhoon®	Typhoon® Grey Friars	Typhoon® Ironsand	Typhoon® Black	Typhoon® Copper	Typhoon® Titanium
<b>A</b> Spouting 3m length	MC1.3	FL1.3	MS1.3	-	-	-	MT1.3	-	-	-	-	-
<b>A</b> Spouting 4m length	-	-	-	MS1.4.GYF	MS1.4.IRO	MS1.4.BLK	-	MT1.4.GYF	MT1.4.IRO	MT1.4.BLK	MT1.4.COP	MT1.4.TTN
<b>A</b> Spouting 5m length	MC1.5	FL1.5	MS1.5	-	-	-	MT1.5	-	-	-	-	-
<b>B</b> External bracket	-	FL2E	-	-	-	-	MT2E	MT2E.GYF	MT2E.IRO	MT2E.BLK	MT2E.COP	MT2E.TTN
<b>C</b> Internal bracket	MC2	FL2I	MS2	MS2.GYF	MS2.IRO	MS2.BLK	MT2I	MT2I.GYF	MT2I.IRO	MT2I.BLK	MT2I.COP	MT2I.TTN
<b>D</b> Spouting Stopend (LH)	MC3	FL3	MS3	MS3.GYF	MS3.IRO	MS3.BLK	MT3	MT3.GYF	MT3.IRO	MT3.BLK	MT3.COP	MT3.TTN
<b>E</b> Spouting Stopend (RH)	MC4	FL4	MS4	MS4.GYF	MS4.IRO	MS4.BLK	MT4	MT4.GYF	MT4.IRO	MT4.BLK	MT4.COP	MT4.TTN
<b>F</b> Spouting joiner	MC5	FL5	MS5	MS5.GYF	MS5.IRO	MS5.BLK	MT5	MT5.GYF	MT5.IRO	MT5.BLK	MT5.COP	MT5.TTN
<b>G</b> Expansion joiner	MC17	FL17	MS17*	MS17.GYF	MS17.IRO	MS17.BLK	MT17	MT17.GYF	MT17.IRO	MT17.BLK	MT17.COP	MT17.TTN
<b>H</b> External corner 90°	MC6	FL6	MS6	MS6.GYF	MS6.IRO	MS6.BLK	MT6	MT6.GYF	MT6.IRO	MT6.BLK	MT6.COP	MT6.TTN
<b>I</b> Internal corner 90°	MC7	FL7	MS7	MS7.GYF	MS7.IRO	MS7.BLK	MT7	MT7.GYF	MT7.IRO	MT7.BLK	MT7.COP	MT7.TTN
<b>J</b> Expansion outlet 65mm	MC8.65	FL8.65	MS8.65	MS8.65.GYF	MS8.65.IRO	MS8.65.BLK	-	-	-	-	-	-
<b>J</b> Expansion outlet 80mm	MC8.80	FL8.80	MS8.80	MS8.80.GYF	MS8.80.IRO	MS8.80.BLK	MT8.80	MT8.80.GYF	MT8.80.IRO	MT8.80.BLK	MT8.80.COP	MT8.80.TTN
<b>K</b> Dropper outlet 65mm (only short runs)	MC11.65	MC11.65	MC11.65	-	-	-	-	-	-	-	-	-
<b>K</b> Dropper outlet 80mm (only short runs)	MC11.80	MC11.80	MC11.80	-	-	-	MT11.80	MT11.80.GYF	MT11.80.IRO	MT11.80.BLK	MT11.80.COP	MT11.80.TTN
<b>K</b> Dropper outlet 100mm (only short runs)	aMC11.100.50	MC11.100.50	MC11.100.50	-	-	-	-	-	-	-	-	-
<b>L</b> Marley MCS® Solvent Cement (180g tube)	MCS	MCS	MCS	MCS.GYF	MCS.IRO	MCS.BLK	MCS	MCS.GYF	MCS.IRO	MCS.BLK	MCS.COP	MCS.TTN

NOTE: Custom made spouting special angles are available upon request. Create a template, labelling where fascia is, with accurate measurements of the angle, indicating the Marley spouting profile; plus if it is an internal or external angle. Take the template into your nearest Marley stockist. Delivery will take 7-10 working days.

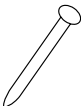

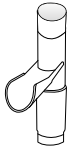
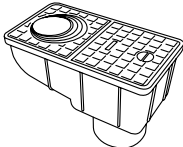

\*The new Stormcloud® expansion joiner has specific installation. Please refer to [www.marley.co.nz](http://www.marley.co.nz) for details.

## Downpipe

Component	Rectangular 65 x 50mm	Rectangular 100 x 50mm	RP65® 65mm Round	RP80® 80mm Round	RP80® Grey Friars	RP80® Ironsand	RP80® Black	RP80® Copper	RP80® Titanium
<b>M</b> Downpipe	MC16 (not socketed)	MC140 (not socketed)	RP65	RP80	RP80.GYF (not socketed)	RP80.IRO (not socketed)	RP80.BLK (not socketed)	RP80.COP (not socketed)	RP80.TTN (not socketed)
<b>N</b> Downpipe joiner	MC14	MC149	RS65	RS80	RS80.GYF	RS80.IRO	RS80.BLK	RS80.COP	RS80.TTN
<b>O</b> Saddle pipe clip	MC22	MC144	RC65	RC80	RC80.GYF	RC80.IRO	RC80.BLK	RC80.COP	RC80.TTN
<b>P</b> Adjustable pipe clip	MC22S	MC144S	RC65.2	RC80.2	RC80.2.GYF	RC80.2.IRO	RC80.2.BLK	RC80.2.COP	RC80.2.TTN
<b>Q</b> Adjustable pipe clip spacer	-	-	RC80.2S	RC80.2S	RC80.2S.GYF	RC80.2S.IRO	RC80.2S.BLK	RC80.2S.COP	RC80.2S.TTN
<b>R</b> F+F bend - 95°	MC13	MC142	RB2.65	RB2.80	RB2.80.GYF	RB2.80.IRO	RB2.80.BLK	RB2.80.COP	RB2.80.TTN
<b>S</b> M+F bend - 95°	-	-	-	RB4.80	RB4.80.GYF	RB4.80.IRO	RB4.80.BLK	RB4.80.COP	RB4.80.TTN
<b>T</b> F+F bend - 43°	MC12 (112°)	MC145 (45°)	RB3.65	RB3.80	RB3.80.GYF	RB3.80.IRO	RB3.80.BLK	RB3.80.COP	RB3.80.TTN
<b>U</b> M+F bend - 43°	-	-	-	RB5.80	RB5.80.GYF	RB5.80.IRO	RB5.80.BLK	RB5.80.COP	RB5.80.TTN
<b>V</b> Junction - 95°	MC20 (112°)	MC148T	RJ65	RJ80	RJ80.GYF	RJ80.IRO	RJ80.BLK	RJ80.COP	RJ80.TTN
<b>W</b> Transition adaptor to round - 65mm	MC19.65	-	-	-	-	-	-	-	-
<b>W</b> Transition adaptor to round - 80mm	MC19.80	MC141.80	RA65.80	RAS80 (AHI 80mm)	-	-	-	-	-
<b>W</b> Transition adaptor to round - 90mm	-	MC141.90	RA65.90	RA80.90	RA80.90.GYF	RA80.90.IRO	RA80.90.BLK	RA80.90.COP	RA80.90.TTN
<b>W</b> Transition adaptor to round - 100mm	-	-	-	RA80.100	RA80.100.GYF	RA80.100.IRO	RA80.100.BLK	RA80.100.COP	RA80.100.TTN
<b>X</b> Spreader kit	-	-	-	SKIT80	SKIT80.GYF	SKIT80.IRO	SKIT80.BLK	SKIT80.COP	SKIT80.TTN
<b>Y</b> End Cap	-	-	-	CS80	CS80.GYF	CS80.IRO	CS80.BLK	CS80.COP	CS80.TTN

## Accessories

Item Code	Component	Item Code	Component
MCNAILS	Galvanised nails	RWLS	Leafslide® White
RWST	Outlet Strainer	RWLS.GYF	Leafslide® Grey Friars
RWDD	Downpipe diverter	RWLS.IRO	Leafslide® Ironsand
1SD6166	Untrapped Rainwater Gully	RWLS.COP	Leafslide® Copper
		RWLS.TTN	Leafslide® Titanium

**Phew, well done,  
that's the planning  
over it's all easy  
from here ...**



# What will I need?

## Tools

- ✓ String line/chalk line
- ✓ Drill and drill bit for screws
- ✓ Builders level
- ✓ Measuring tape
- ✓ Hacksaw – fine tooth PVC saw
- ✓ Hammer
- ✓ Ladder/trestle/planks  
**NB: Refer to Worksafe NZ website for best practice guidelines for working at height in New Zealand**
- ✓ Pencil

## Safety precautions

- 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
- When connecting downpipes to stormwater pipes, Marley recommend you consult a certified tradesperson before beginning the project
- Always work from a stable platform and only use ladders for access or to carry out low-risk minor or routine work.



## Here's a quick lesson on how to use solvent cement

### Solvent cement your fittings

Marley MCS® solvent cement is specifically formulated to bond together the components of Marley spouting and downpipe systems and helps to ensure a long-lasting, water tight joint is achieved. Only use Marley solvent cement (MCS®) when installing Marley spouting and downpipe.

1



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

2



Marley solvent cement (MCS®) should be applied evenly to **both surfaces** being joined. Then press both surfaces together and hold for 20-30 seconds

3



Any surplus solvent cement should be removed immediately with a damp, clean, lint free cloth. Leave sitting for 10 minutes.

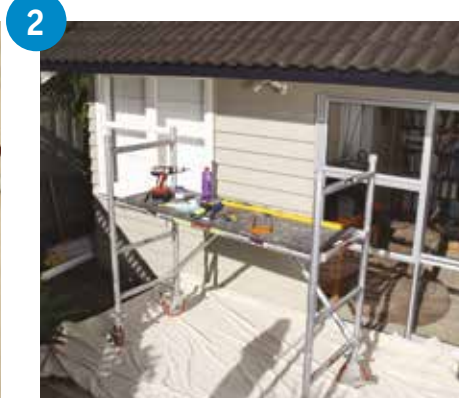
# How do I install my spouting?

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 recommends you seek advice from a trade professional.



## 1 Gather

Your tools and materials.



## 2 Set up

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

Locate position of downpipe outlet, this will be your low point. On existing houses these are identified by existing downpipes or stormwater outlets.



## 4 String line/Chalk line

Next find your high point. Position the first bracket at determined high point as high as possible on the fascia under roof overhang. Secure string line to fascia using a screw adjacent to the first bracket and run under first bracket to the low point (see Fig 1). **Ensure a min 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 6g x 20mm coarse thread.

**NB: Gib clouts must NOT be used.**



## 6 Expansion Outlet (low point)

Position outlet at low point (in line with drain) and ensure string line aligns with feature on side tabs of outlet.

Secure outlet to fascia using a minimum of 4 fixings.



## My Top Tips

- ✓ Adding a Marley leaf diversion product to each downpipe will help prevent your drains blocking.
- ✓ Remember to double-check your lengths - measure twice, cut once.
- ✓ Work towards your low point (where drain is located) with a minimum fall of 5mm for every 10m.
- ✓ If you're going to paint spouting it's easier to paint on the ground before you install. See page 9 for paint recommendations.
- ✓ When replacing existing spouting, take the opportunity to check the condition of your fascia and sand/repaint as necessary.



### Spouting

For internal brackets, position front of spouting into front of brackets, then roll spouting into back of brackets until secure.

For external brackets, position back of spouting into back of bracket, then roll spouting into front of brackets until secure.

Check every bracket is correctly engaged.



### Expansion Allowance

Slide spouting into expansion outlet. Ensure end of spouting is aligned with the marking corresponding to the temperature at time of installation.

**NB. Do not solvent weld spouting into expansion outlet.**



### Joins

Use spouting joiners and Marley MCS® solvent cement to connect lengths of spouting as necessary. For long runs over 12 metres or runs without an expansion outlet, replace one of the spouting joiners with an expansion joiner to provide further expansion allowance.

**NB. The new Stormcloud® expansion joiner requires a different installation. Refer to [www.marley.co.nz](http://www.marley.co.nz) for details.**



### Corners

When required, solvent weld corners onto correct end of the spouting.

**NB. Corners should be supported by brackets either side – 50mm clearance for external corners and 200mm clearance for internal corners.**



### Check

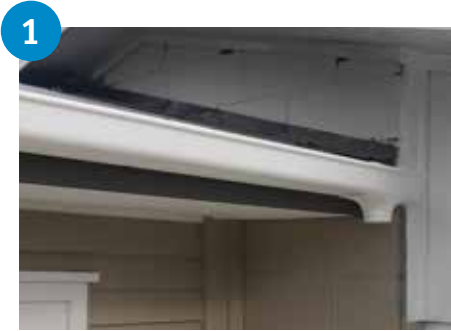
Check project is safe and complete. Clean any excess Marley solvent cement (MCS®) from corners or joiners to minimise potential pooling of water. Ensure spouting is correctly secured to each bracket and space has been provided for expansion and contraction.

#### Note:

Marley spouting systems are not designed for use as an internal spouting system.

# How do I install my downpipe?

Marley downpipe systems efficiently transfer rainwater from spouting to stormwater systems with a modular range of pipe and fittings to suit any situation.



1 Install expansion outlet as per spouting installation instructions.



2 Connect downpipe bend to expansion outlet using a screw to hold bend in place. To allow easy removal for cleaning debris do not solvent cement bend to outlet.



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



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



5 Use a level or plumb line to mark where the downpipe will sit against the wall. Ensure downpipe clips are spaced no more than 1.2 metres apart and the first clip is a maximum of 200mm below the downpipe bend. Downpipe clips to be secured with two stainless steel screws.



6 Connect downpipe to access pit, surface drainage or stormwater outlet (as shown in photo).

**NB. Do not connect downpipe to waste water gully trap.**




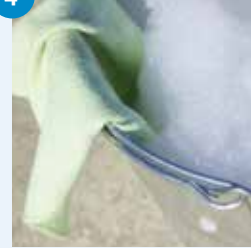
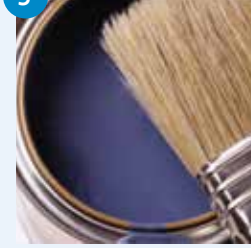
Check project is complete and all joints are clean.



## Note





Marley downpipe systems are not designed for a concealed system, for use in wall or ceiling cavities or buried applications. Instead Stormwater/DWV pipe should be used for these applications.

# Maintenance

<p><b>1</b></p> 	<p><b>2</b></p> 	<p><b>3</b></p> 	<p><b>4</b></p> 	<p><b>5</b></p> 
<p><b>Clear debris</b></p> <p>Regularly check and clear debris from the inside of your spouting and/or downpipes.</p>	<p><b>Check brackets</b></p> <p>Check brackets are intact, spaced max 500mm apart and spouting has <b>even fall towards</b> outlet to avoid water ponding. (Min 5mm per 10m)</p>	<p><b>Check expansion joiner</b></p> <p>Unclip expansion joiner, clean the rubber seal of any dirt or grit and re-lubricate with a silicone based lubricant before reassembly.</p>	<p><b>Clean once per year</b></p> <p>Wash your Marley spouting and downpipe system annually using warm soapy water and a soft bristled brush or cloth. Rinse with clean water.</p>	<p><b>Painting</b></p> <p>Clean spouting or downpipes and allow to dry. Apply mineral-based undercoat and two coats of acrylic paint.</p> <p><b>NB. Do not paint inside of spouting or brackets, darker colours require additional expansion allowance.</b></p>

# Repairs

## Repair damaged spouting

<p><b>1</b></p> 	<p><b>2</b></p> 	<p><b>3</b></p> 	<p><b>4</b></p> 
<p>Block spouting with cloth to create dry working area. Mark and cut 50mm inside bracket either side of damaged area.</p>	<p>Replace any damaged brackets. Place joiner and expansion joiner then measure distance in between for replacement piece.</p>	<p>Cut replacement section on ground and solvent cement a joiner and expansion joiner to each end.</p>	<p>Roll the end with the expansion joiner into place by first engaging the back lip and then clicking front lip into position. Then solvent cement the joiner at the other end.</p>

## Fixing spouting creep

<p><b>1</b></p> 	<p><b>2</b></p> 	<p><b>3</b></p> 
<p>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.</p>	<p>Re-insert spouting into expansion outlet. Ensure end of spouting aligns with temperature marking on inside face of outlet.</p>	<p>Secure spouting to fascia using a screw at the point furthest from the expansion outlet in the same run. This will control movement to and from the expansion outlet.</p>

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