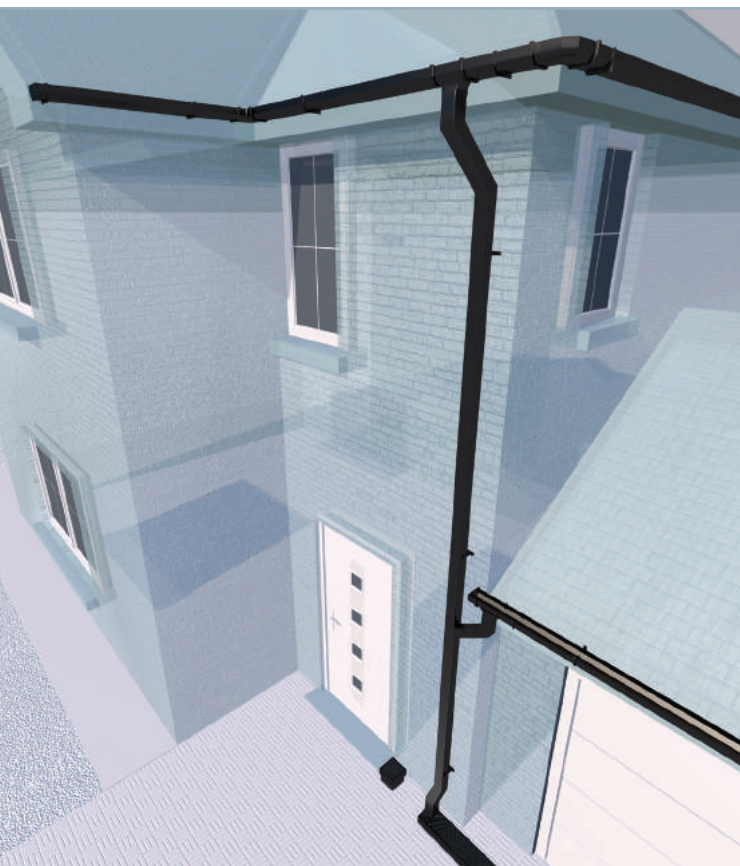


Manthorpe

Rainwater & Drainage Guide



Tomorrow's solutions today



For over 30 years laying strong foundations for the future has always been at the heart of our company. Whether that's building long term partnerships with our customers, continued investment in our people or supplying the industry with innovative products.

As we start a new chapter in our history as a member of the Polypipe family our vision for the future could not be clearer: we believe that everyone deserves a home where they can feel safe and comfortable.

This belief is always at the core of what we do and how we do it; from conception of an idea to ensuring our intrinsic values of performance, quality and service, we don't compromise. Our objective is to provide the building industry with products and solutions to meet today's needs and the needs of future generations.

Manthorpe gives you peace of mind, every time.

Quality rainwater solutions from Manthorpe

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Discover more from our range
of quality building products

Whether it's a new housing development or a single property refurbishment, Manthorpe Building Products provide the building industry with tomorrow's products and solutions today.

With access to premium raw materials along with rigorous control procedures such as sampling, testing and inspecting we ensure quality parameters are met during manufacture and delivery, so developers and home owners can be secure in the knowledge that they are receiving quality finished product to the highest standards.

With continuous improvement initiatives and on-going product development, our research and development expertise is focussed on delivering new and innovative solutions for the building industry.

Quality

All products manufactured by Manthorpe Building Products are produced in accordance with our ISO 9001 accredited policy and procedures.

All products are designed to comply with the relevant current Building Standards when fitted in accordance with the our instructions.

We maintain a policy of continuous development of our product range and reserve the right to amend the specifications without prior notice.

Associations



Our comprehensive MT Rainwater range offers a wide choice of profiles, capacities and colours to suit all styles and applications across residential properties, conservatories and light commercial, making our products perfect for both large and small-scale projects.

Good compatibility with existing systems coupled with the easy clip design makes light work of installation. All products come with a high gloss finish providing a natural lustre and a 10-year colour fastness guarantee on all white systems.

Accomplished design combined with the best materials and state of the art technology all combine to ensure that your rainwater systems are as aesthetically pleasing as they are long-lasting.

Our system benefits

- Whether it's a Victorian terrace, a modern dwelling or a commercial property we all want a system that's perfect for our application. With a choice of both round and square downpipes and assorted profiles, you can sympathetically blend or boldly contrast your rainwater system to the design of the building.
- During heavy downpours, or demanding conditions such as heavy snow loads, insufficient gutters can back up and overflow. MT Rainwater systems are designed to maximise capacity in the gutter and flow at the outlet, alleviating overflow problems and subsequent damage.
- Installation is quick and simple with our easy click system, reducing time working at height.
- Premium internal finish that delivers years of service with minimal maintenance requirements.

Quality

All Marshall Tufflex (MT) products are manufactured in accordance with BS EN 607:1996, BS EN 1462:1997, BS EN 4576-1:1989, EN12200-1:200 where applicable.

All products are designed to comply with the relevant current Building Standards when fitted in accordance with the manufacturer's instructions.

The company maintains a policy of continuous development of its product range and reserves the right to amend the specifications without prior notice.

Flow Rates

Centre Outlet (Max. flow rate litres/sec)	BS EN 12056-3:2000	BS6367:1983
Half Round System	1.32	1.40
Square Line System	1.79	2.13
XL System	2.59	3.37
System Plus	2.60	3.50

Half Round System 112mm



- The Half Round System is an easy clip design with rounded ends ensuring simple installation.
- Suitable for residential applications Half Round is compatible with many existing systems.

Colour Code:

BK

Black

WH

White

GY







Grey

BN

Brown

A

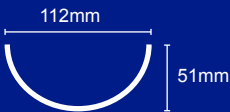
Anthracite

Specification Guide			
	Product Description	Product Code	Pack Qty
	4m Gutter	RWG4	5
	90° Angle	RWA1	20 [†]
	135° Angle	RWA2	20 [†]
	External Stop End	RWE1	20 [†]
	Internal Stop End	RWE2	20 [†]
	Fascia Bracket	RWFB1	100 [†]

Gutter & Fittings





- 1 Gutter
- 2 Angle
- 3 External Stop End
- 4 Internal Stop End
- 5 Fascia Bracket
- 6 Outlet
- 7 Union Bracket



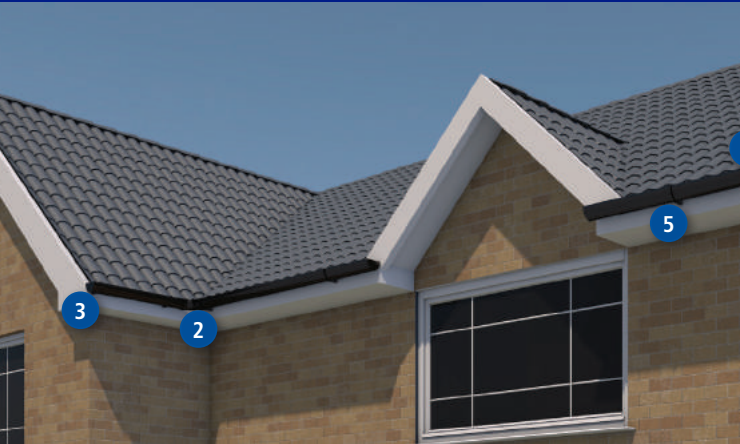
Sized for flow rates up to 1.32 l/s.
See page 5 for the flow rate table

Specification Guide

	Product Description	Product Code	Pack Qty
	Running Outlet	RWO1	20
	Stop End Outlet	RWO2	20
	Union Bracket	RWU1	30







IMPORTANT WHEN ORDERING: Indicate product colour required by using the following code suffixes:
BK-black, WH-white, GY-grey, BN-brown, A-anthracite e.g. Gutter 4m in white = RWG4WH
† Please enquire about pack quantities of Grey

XL System 114mm



- Ideal for properties with large roof areas such as terraced or community housing and light commercial buildings.
- The deep elliptical shape takes an impressive capacity of rainwater meaning fewer downpipes are required, allowing more space for wall designs or windows

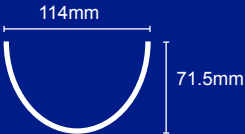
Colour Code:	BK	WH	BN	A
	Black	White	Brown	Anthracite

Specification Guide			
	Product Description	Product Code	Pack Qty
	4m Gutter	RWYG4	5
	90° Angle	RWXA1	10
	135° Angle	RWXA2	10
	External Stop End	RWYE1	10
	Internal Stop End	RWYE2	10
	Fascia Bracket	RWYFB1	40

Gutter & Fittings





- 1 Gutter
- 2 Angle
- 3 External Stop End
- 4 Internal Stop End
- 5 Fascia Bracket
- 6 Outlet
- 7 Union Bracket



Sized for flow rates up to 2.59 l/s.
See page 5 for the flow rate table

Specification Guide

	Product Description	Product Code	Pack Qty
	Running Outlet	RWXO1	10
	Union Bracket	RWXU1	10

IMPORTANT WHEN ORDERING: Indicate product colour required by using the following code suffixes:

BK–black, WH–white, BN–brown, A–anthracite e.g. Gutter 4m in brown = RWXG4BR

Square Line System 114mm



- Suitable for residential applications, has an easy clip design with rounded ends to ensure simple installation.
- Top Hung Fascia brackets are available providing smooth lines.

Colour
Code:

BK

Black

WH

White

BN

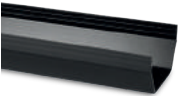





Brown

CB

Clay
Brown

A

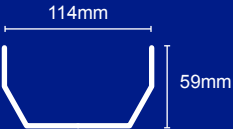
Anthracite

Specification Guide			
	Product Description	Product Code	Pack Qty
	2m Gutter	RWSG2	5
	4m Gutter	RWSG4	5
	90° Angle	RWSA1	20
	135° Angle	RWSA2	20
	External Stop End	RWSE1	20
	Internal Stop End	RWSE2	20
	Fascia Bracket	RWSFB1	100

Gutter & Fittings



- 1 Gutter
- 2 Angle
- 3 External Stop End
- 4 Internal Stop End
- 5 Fascia Bracket
- 6 Outlet
- 7 Union Bracket



Sized for flow rates up to 1.79 l/s.
See page 5 for the flow rate table

Specification Guide			
	Product Description	Product Code	Pack Qty
	Top Hung Fascia Bracket	RWSFB2	50
	Running Outlet	RWSO1	20
	Stop End Outlet	RWSO2	20
	Union Bracket	RWSU1	30
	Square to Round Adaptor* (not available in clay brown or anthracite)	RWSD1	10

* Used for connecting PVCu systems to cast iron

IMPORTANT WHEN ORDERING: Indicate product colourrequired by using the following code suffixes:

BK–black, WH–white, BN–brown, CB–clay brown, A–anthracite
e.g. Gutter 4m in brown = RWSG4BR

Gutter code reference numbers refer to length of run: e.g. RWSG4 = 4m.

System Plus 128mm



- System Plus has been designed with aesthetics in mind providing an appearance that complements any property.
- High gloss finish providing a natural lustre.

Colour
Code:

BK

Black

WH

White

BN

Brown

CB

Clay
Brown

A

Anthracite

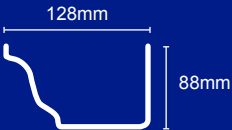
Specification Guide

	Product Description	Product Code	Pack Qty
	4m Gutter	RWKG4	5
	90° External Angle	RWKA1	10
	135° External Angle	RWKA2	10
	90° Internal Angle	RWKA3	10
	150° Internal Angle	RWKA4	10
	135° Internal Angle	RWKA5	10

Gutter & Fittings



- 1 Gutter
- 2 Angle
- 3 External Stop End
- 4 Internal Stop End
- 5 Fascia Bracket
- 6 Running Outlet
- 7 Union Bracket



Sized for flow rates up to 2.6l/s.
See page 5 for the flow rate table

Specification Guide

	Product Description	Product Code	Pack Qty
	Fascia Bracket	RWKFB1	25
	Top Hung Fascia Bracket	RWKFB2	25
	Right Hand External Stop End	RWKE1	10
	Left Hand External Stop End	RWKE2	10

IMPORTANT WHEN ORDERING: Indicate product colour required by using the following code suffixes:
BK-black, WH-white, BN-brown, CB-clay brown, A-anthracite
e.g. Gutter 4m in brown = RWKG4BR

System Plus 128mm



- The system is ideal for use on larger residential buildings, smaller commercial premises and especially for conservatory roof applications.
- Installation is quick and simple with our easy click system, reducing working time at height.

Colour
Code:

BK

Black

WH

White

BN

Brown







CB

Clay
Brown

A

Anthracite

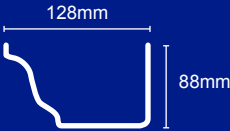
Specification Guide

	Product Description	Product Code	Pack Qty
	Running Outlet	RWKO1	10
	Right Hand Stop End Outlet	RWKO2	10
	Left Hand Stop End Outlet	RWKO3	10
	Union Bracket	RWKU1	10
	Left Hand Plus to Square Adaptor (not available in clay brown or anthracite)	RWKD6	1
	Right Hand Plus to Square Adaptor (not available in clay brown or anthracite)	RWKD7	1

Gutter & Fittings





- 1 Gutter
- 2 135° External Angle
- 3 135° Internal Angle
- 4 Right Hand Stop End Outlet
- 5 Left Hand Stop End Outlet
- 6 Union Bracket



Sized for flow rates up to 2.6l/s.
See page 5 for the flow rate table

Specification Guide

	Product Description	Product Code	Pack Qty
	Left Hand Plus to Half Round Adaptor (not available in clay brown or anthracite)	RWKD8	1
	Right Hand Plus to Half Round Adaptor (not available in clay brown or anthracite)	RWKD9	1

IMPORTANT WHEN ORDERING: Indicate product colour required by using the following code suffixes:
BK–black, WH–white, BN–brown, CB–clay brown, A–anthracite
e.g. Running Outlet in brown = RWK01BR

Downpipe & Fittings 68mm Round



- Good compatibility and connection with existing systems
- 10-year colour fastness guarantee on all white systems

Colour
Code:

BK

Black

WH

White

GY

Grey

BN

Brown

CB

Clay
Brown

A

Anthracite

68mm



Half Round p6 - 7
XL System p8 - 9
System Plus p12 - 15

- | | | | |
|----------|--------------|----------|-------------|
| 1 | Downpipe | 5 | Outlet |
| 2 | Bend | 6 | Pipe Socket |
| 3 | Access Point | 7 | Hopper |
| 4 | Pipe Clip | | |

Specification Guide

	Product Description	Product Code	Pack Qty
	2.5m Downpipe	RWP25	5
	4m Downpipe (not available in grey or clay brown)	RWP4	5
	5.5m Downpipe	RWP55	5
	90° Bend	RWB1	30†
	112° Offset Bend	RWB2	30†
	Shoe	RWB3	30†
	Access Point for Round Pipe (not available in clay brown or anthracite)	RWRAP1	1
	Pipe Clip	RWC1	100†
	Single Fix Downpipe Clip (not available in anthracite)	RWC3	40†
	Pipe Socket	RWS1	10
	Hopper - Suitable for Round & Square Pipes	RWH1	5
	112° Branch	RWY1	10

For Pipe Clip Spacers see page 19.

IMPORTANT WHEN ORDERING: Indicate product colour(s) required by using the following code suffixes:

BK–black, WH–white, GY–grey, BN–brown, CB–clay brown, A–anthracite
e.g. Downpipe 5.5m in black = RWP55BL

Downpipe code reference numbers refer to length of run: e.g.. RWP4 = 4m.

† Please enquire about pack quantities for grey and clay brown

Downpipe & Fittings 65mm Square



- Good compatibility and connection with existing systems
- 10-year colour fastness guarantee on all white systems

Colour
Code:

BK

Black

WH

White

BN

Brown

CB

Clay
Brown

A

Anthracite

65mm



XL System p8 - 9

Square Line p10 - 11

System Plus p12 - 15

- 1

Downpipe
- 2

Bend
- 3

Access Point
- 4










Pipe Clip
- 5

Branch
- 6

Outlet
- 7

Pipe Socket

Specification Guide

	Product Description	Product Code	Pack Qty
	2.5m Downpipe	RWSP25	5
	4m Downpipe	RWSP4	5
	5.5m Downpipe	RWSP55	5
	90° Bend	RWSB1	30
	112° Offset Bend	RWSB2	30
	Shoe	RWSB3	30
	Access Point for Square Pipe (not available in clay brown or anthracite)	RWSAP1	1
	Pipe Clip	RWSC1	100
	Pipe Clip - Flush	RWSC2	100
	Single Fix Downpipe Clip	RWSC3	40
	Spacers 6mm (not available in anthracite)	RWCS1	80

IMPORTANT WHEN ORDERING: Indicate product colour(s) required by using the following code suffixes:

BK–black, WH–white, BN–brown, CB–clay brown, A–anthracite
e.g. Downpipe 4m in Clay Brown = RWSP4CB

Downpipe code reference numbers refer to length of run: e.g. RWSP4 = 4m.

Downpipe & Fittings 65mm Square



- Good compatibility and connection with existing systems
- 10-year colour fastness guarantee on all white systems

Colour
Code:

BK

Black

WH

White

BN

Brown

CB

Clay
Brown

A

Anthracite

65mm



XL System p8 - 9

Square Line p10 - 11

System Plus p12 - 15

- 1

Downpipe
- 2

Bend
- 3

Access Point
- 4






Pipe Clip
- 5

Branch
- 6

Outlet
- 7

Pipe Socket

Specification Guide

	Product Description	Product Code	Pack Qty
	Pipe Socket	RWSS1	10
	112° Branch (not available in anthracite)	RWSY1	10
	Square to Round Pipe (not available in anthracite)	RWSD2	10
	Adjustable Offset Bend (not available in clay brown or anthracite)	RWSB4	5
	Hopper - Suitable for Round & Square Pipes	RWH1	5

IMPORTANT WHEN ORDERING: Indicate product colour(s) required by using the following code suffixes:
BK–black, WH–white, BN–brown, CB–clay brown, A–anthracite
e.g. Downpipe 4m in Clay Brown = RWSP4CB

GPD-1000 SmartDrain Drainage Channel





- Lengths fix together for a quick and easy on-site assembly
- Unique clip feature will not block with silt or site debris
- High heel friendly clip down grate with optional screw fixings
- Can be cut to any length with reusable clips along the base
- Multiple 4" dia. water exit points with easy cut-out feature

Colour Code: SLV Silver BL Black

The GPD-1000 SmartDrain is a simple and effective way of removing unwanted standing water into a domestic drain. Quick and easy to install, the system can be fitted with any type of surface including block paving, flag stones, asphalt or cast concrete.

The grate is available with a choice of matte black or metallic effect silver finish.

The channels are CE Marked to an A15 Load Rating and have been independently tested to the test requirements of BS EN 1433.

Specification Guide				
	Product Description	Length	Colour	Pack Qty
	GPD-1000	1m	BL	Singles*
	GPD-1000-SLV	1m	SLV	Singles*

*Sold as a grate and channel assembly, available in pallet quantities of 48 or 96.

GPD-JU SmartDrain Junction Unit



- The sides can be cut to create multiple junction transitions
- Unique clip feature will not block with silt or site debris
- High heel friendly clip down grate with optional screw fixings
- Units fix together for quick and easy on-site assembly
- 4" dia. water exit point on base with easy cut-out feature

Colour Code:

SLV



BL

SilverBlack

The GPD-JU junction unit is designed to provide options for various changes of direction for linear runs of SmartDrain channels. The unit can be used to create a variety of transitions including a 90° corner, T-junction or a 4-way cross junction.

The junction unit has 4 thinned out side walls which can be easily trimmed out with a knife. Simply remove whichever and however many sides are required and connect to the rest of the system with the easy to fix location clips in the base of the channel.

The base outlet of the unit also has a pre-moulded connection for a 4 inch diameter drainage pipe which can be easily utilised by drilling a hole in the base of the channel.

Specification Guide				
	Product Description	Length*	Colour	Pack Qty
	GPD-JU-BL	117 x 117mm	BL	12
	GPD-JU-SLV	117 x 117mm	SLV	12

*Multiple junction units must be accounted for when calculating long run lengths

GPDST-1000 SlotDrain Drainage Channel



- Ideal for threshold drainage to comply with Part M regulations
- Can be cut to length with reusable joints along the base
- Lengths fix together for quick and easy on-site assembly
- Unique clip feature will not block with silt or site debris
- Multiple 4" dia. water exit points with easy cut-out feature

Colour
Code: **BL**
Black


The GPDST-1000 SlotDrain is a discreet way of removing unwanted standing water from outdoor paved areas and is especially well suited to meet the Part M Building Regulations requirement for level thresholds at doorways.

“The detailing around the entrance door is critical both in terms of providing accessibility and preventing the ingress of water. In all but the most sheltered locations, an adjacent drainage slot or channel is also needed to protect the entrance.”

NHBC Building Regulations Guidance Note

Access to and use of buildings - Dwellings

Both the channel and grate can be cut to length and clipped together for ease of installation on site. The individual slot grates are 500mm long allowing for easier installation in front of doorways.

Specification Guide				
	Product Description	Length	Colour	Pack Qty
	GPDST-1000	1m	BL	Singles*

*Sold as a grate and channel assembly, available in pallet quantities of 48 or 96.

GPDST-JU SlotDrain Junction Unit




- The sides can be cut to create multiple junction transitions
- Extended channel sleeve allows use with taller SlotDrain
- High heel friendly clip down grate with optional screw fixings
- Units fix together for quick and easy on-site assembly
- 4" dia. water exit point on base with easy cut-out feature

Colour
Code: **BL**
Black

The GPDST-JU junction unit is designed to provide options for various changes of direction for linear runs of drainage channels and should be used at each end of a run as well as at 3m intervals along longer runs to allow for rodding and maintenance access. The junction unit has an additional component in the kit which extends the overall height of the product bringing it level with the top of the SlotDrain grate.

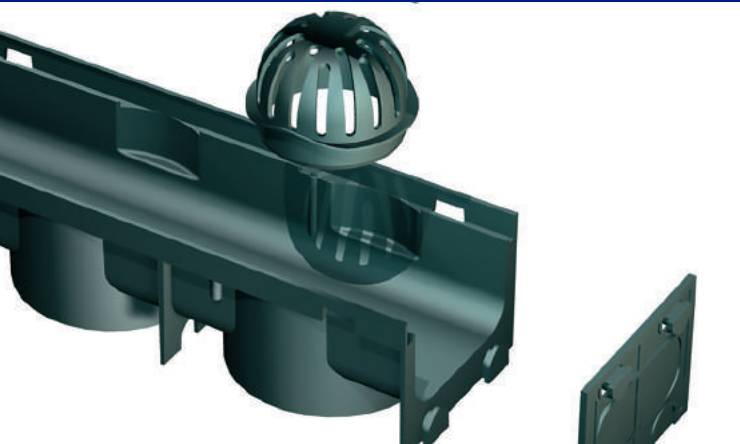
The junction can be used to create a variety of transitions when laying the SmartDrain system including a 90° corner, T-junction or a 4-way cross junction.

The base outlet of the unit also has a pre-moulded connection for a 4 inch diameter drainage pipe which can be easily utilised by drilling a hole in the base of the channel. A leaf trap can be installed into the hole to block debris.

Specification Guide				
	Product Description	Length	Colour	Pack Qty
	GPDST-JU	117 x 117mm	BL	12

*The SlotDrain junction unit is only available in black.

GPD-AP SmartDrain Accessory Pack




- Accessory pack for both the SmartDrain and SlotDrain systems
- Leaf trap prevents debris from falling down the drain hole
- Quick and simple to install into the base of the channel
- End caps clip onto the block off the end of a channel run
- Caps are ambidextrous and can be used on either end

Colour Code: **BL**
Black

The GPD-AP accessory pack for the Manthorpe range of drainage channels can be used in conjunction with both the SmartDrain and SlotDrain systems.

The leaf trap is designed to mount over the drainage outlet hole in the base of the channel to prevent silt and debris from flowing in the drain. The trap slots into place once the desired hole has been removed from the channel. The leaf trap locates just below the underside of the grate which prevents it from floating out of place in heavy rainfall.

The end caps are blanking plates to block off the start or finish of a run of channel, preventing water runoff from either end. The caps will fit to either end of the channel by means of a simple push on clip fit. At the male end of the channel, you must remove the thinned tabs on the endcap using a knife or pair of pliers first.

Specification Guide				
	Product Description	Leaf Tray Qty	End Cap Qty	Fitting Instructions Qty
	GPD-AP	1	2	1

The leaf trap and end caps are only available in black.

Manthorpe

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