MAY 2011

RWTM1-PT

TERRAIN



Terrain Rainwater

PVC rainwater systems



Terrain Rainwater

Distinctive shapes Exceptional performance

Quality product, innovation and outstanding service – the combined promise that ensures every one of the Terrain five rainwater drainage systems will surpass your requirements, whatever the installation you're specifying.

Large or small; residential or commercial; in the public sector or as part of an industrial development, in terms of both capacity and design aesthetics the Terrain range of products is impossible to beat.

Each Terrain system comprises fully integrated gutter and downpipe assemblies as well as outlets for balconies and flat roofs, and includes all the fittings and accessories needed for easy installation.

Features and benefits

- Captive seals in all gutter systems
- Combination clipping system for quick reliable installation
- Fixing locations positioned outside the wet areas
- **Expansion markings on ALL gutter fixings**
- Dry jointed spigot-socket downpipe system
- EN607/EN12200/EN1462 Approved

Crescent

True half-round profile

Ideal for houses, smaller commercial buildings and offices. Can drain roof areas up to 122m² with a single downpipe. Capacity per outlet 2.54 litres/sec.*

Corniche



Square profile

A popular, modern system suiting domestic houses, bungalows and conservatories. Can drain roof areas up to 149m² with a single downpipe. Capacity per outlet 3.11 litres/sec.*

Streamline



Large square profile

A high capacity system ideal for commercial properties and larger houses. Can drain roof areas up to 294m² with a single downpipe. Capacity per outlet 6.11 litres/sec.*

Rapidflow



Deep elliptical profile

A high capacity system suiting all styles of property. Ideal for large roof areas or areas with higher than normal rainfall. Can drain roof areas up to 266m² with a single downpipe. Capacity per outlet 5.53 litres/sec.*

Omega



Ogee profile

Ideal for the more distinctive house, also suiting bungalows and conservatories. Can drain roof areas up to 242m² with a single downpipe. Capacity per outlet 5.04 litres/sec.*

Outlets



Roof and Balcony Outlets

Outlets available for all flat roof and balcony structures and drain vent systems (For large roof areas use Terrain Siphonics – see separate catalogue).

*For full capacity specifications please see System Planning on page 36.

Contents



Sustainable Materials

Terrain Drainage Products are 100% Lead Free.

Plastics are among the most researched materials in the world and rapid technological and manufacturing developments made in recent years have allowed for continuous innovation.

Terrain pioneered the development of PVC material for the manufacturing of drainage pipes and fittings; we remain at the forefront of the industry across the globe and are proud to be pioneering the industry once more with the development of our LEAD-FREE systems to minimise the environmental and health risk impacts of the PVC life cycle.

Utilising a lead-free material composition contributes significantly to an environmentally friendly manufacturing process and gives a finished product that is fully recyclable in accordance with International Standards.

For further information, please refer to www.polypipe.com

Terrain Rainwater

System Selector	4
Roof & Balcony Outlets	5 - 7
Rainwater Downpipes - Round	8 - 15
Rainwater Downpipes - Square	16 - 19
Crescent Gutter System	20 - 22
Corniche Gutter System	23 - 24
Streamline Gutter System	25 - 26
Rapidflow Gutter System	27 - 28
Omega Gutter System	29 - 30
Accessories	31 - 34
Fixing & Connections	35
System Planning	36 - 37
General Principles	38
Gutter Installation	39 - 42
Downpipe Installation	43 - 47
Roof & Balcony Outlet Installation	48
Roof Outlet Installation	49 - 51
Index	52-53

System Selector

Gutters																			
	downpipe options 68mm round	62mm square	75mm square	82mm round	110mm round	key component options stop end outlet	gutter angle 90°	gutter angle 120°	gutter angle 135°	gutter adaptors to 4" Cl spigot	4" CI socket	4" Ogee CI spigot	41/2" Ogee CI socket	Other PVC-u Manufacturers	Marley Deepflow	colour grey	black	white	rustic
2150 Crescent	•					•	•	•	•	•	•	•	•	•		•	•	•	•
2250 Corniche	•	•				•	•	•	•			•	•	● †		•	•	•	•
2350 Streamline		•*	•	•	•		•		•					● †			•	•	•
2450 Rapidflow	•			•		•	•		•					•	● †		•	•	•
2550 Omega	•	•				•	•		•	•	•	•	•	● †			•	•	•

NB other adaptors available on request

bracket fixings – available for side and top rafter fixing.

Rise and fall drive in brackets also available *Adaptor required †Special fitting (Prefab)

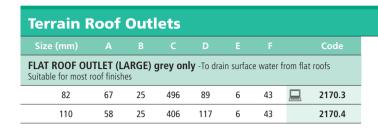
Downpipes																			
	gutter suitability 2150 Crescent	2250 Corniche	2350 Streamline	2450 Rapidflow	2550 Omega	key component options 921/2 bend	1121/2 bend	1121/2 long radius bend	135° bend	single branch	double branch	wall offset	pipe and fitting clip	drive-in pipe clip	adjustable pipe clip	colour grey	black	white	rustic
68mm Round	•	•*		•	•	•	•	•		•	● †		•	•	•	•	•	•	•
62mm Square		•	•*		•	•	•			•		•	•		•	•	•	•	•
75mm Square			•				•			● †		•	•				•	•	•
82mm Round			•	•	•	•	•		•	•	● †		•		•		•	•	•
110mm Round			•			•	•	•	•	•	•		•		•		•	•	•

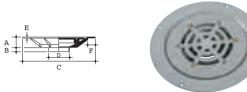
Balcony & Roof Ou	tlets																
BALCONY OUTLETS	downpipe options 68mm round	62mm square	75mm square	82mm round	110mm round	application balconies	small balconies	porches	garages	flat roofs general	flat roofs combined	flat roofs inverted	surface finish compatibility screed	asphalt	mineral felt	single layer plastic	general roof finish
2172.3 screed finish	•*	•*		•		•							•				
2174.3 asphalt finish	•*	•*		•		•	•	•	•					•			
ROOF OUTLETS																	
2171.3A inverted roof outlet				•	•							•					•
2171.34 vent pipe outlet					•						•			•			•
2181.3 domed (small)				•			•	•	•						•	•	
2171.3 domed (large)				•	•					•				•			
2180.3 small				•			•	•	•						•	•	
2170.3 large				•	•					•				•			

^{*}With adaptor 2173.3.25

For large roof areas (over 1000m2) use Terrain Siphonic Roof Drainage Systems, please see separate catalogue.

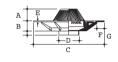
Terrain Roof & Balcony Outlets





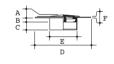
Outlets

Size (mm)			C	D					Code
DOMED ROOF Suitable for most			RGE) gi	rey onl	y -To d	rain sur	face wa	ter from	n flat roofs
82	67	25	406	89	6	43	76		2171.3
110	58	25	406	117	6	43	76		2171.4



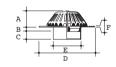


Size (mm)				D			Code
							in surface water from e layer plastic roofs
50	6	16	25	178	61	3	2180.2
82	6	16	25	178	87	3	2180.3





Size (mm)	А	В	C	D	E	F		Code
DOMED ROOF from porches, gara	OUTLET ages and s	(SMAL small balo	L DIAN onies.Sui	IETER) g table for r	rey on I	y - To d	rain suri gle layer	face water r plastic roofs
50	48	16	25	178	61	3		2181.2
82	48	16	25	178	87	3		2181.3

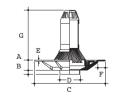




Siz	e (mm)			C	D				Code
	RTED ROO			rey onl	y -To all	low for	drainag	e from tv	vo levels as required
	110	60	25	406	117	6	43	260	2174.4A

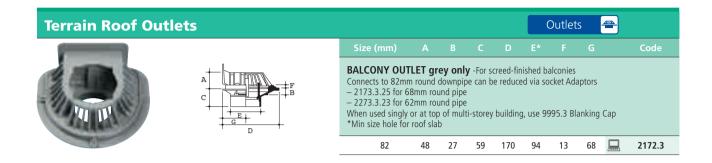


Size (mm)	А	В	С	D	Е	F	G	Code
INVERTED I Suitable for m			rey on	ly -Spec	ial vent	ed type	for comb	oined systems
110	58	25	406	117	6	43	371	2174.44

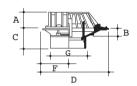




Terrain Roof & Balcony Outlets







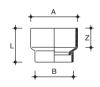
Size (m	n) A	В	С	D	E*	F	G	Code
BALCONY Details as 2	OUTLET 172.3 *Mir	grey or	ly -For	asphalt- f slab	finished	l balconi	es	
82	2 48	3 27	59	170	94	13	68	2174.3





Size (mm)					Code
SOCKET ADAPT 2174.3 Balcony Ou				To connect socke	et of 2172.3 and
82/68	82	68	60	45	2173.3.25





Size (mm)	Α	В	L	Z	Colour	Code
SOCKET ADAPT Balcony Outlets to				nnect socke	et of 2172.3	and 2174.3
82/62	82	62	60	45	W G	2273.3.25

Terrain Roof Outlets Colour Code SPARE GRID FOR DOMED ROOF OUTLET -for 2171 G 9980



	Colour	Code
SPARE GRID FOR FLAT ROOF OUTLET -for 2170		
	G	9981



	Colour	Code
SPARE GRID FOR BALCONY OUTLET -for 2172		
	G	9990



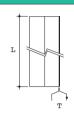
	Colour	Code
CAP FOR BALCONY OUTLET -For use with 2173.3.25 at top of multi-storey building	and 2273.23 whe	n used singly or
	G	9995.3



Terrain Rainwater Downpipe Systems

Rainwater Downpipe System - 68mm





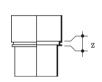
Size (mm)	L	Т	Colour	Code
68MM DOWNPIE	PE - Plain ended	lengths		
68	3.0m	1.8	WRBG	2100.25.30
68	4.0m	1.8	WRBG	2100.25.40
68	5.5m	1.8	WRBG	2100.25.55





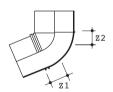
Size (mm)	Angle	Z1	Z2	Colour	Code
LONG RADIUS Prevents dislocati			direction: 11	21/2°	
68	112½	54	55	WRB	2101.25.112





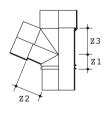
Size (mm)	Z	Colour	Code				
STRAIGHT COUPLER - For joining pipe lengths. Fittings grooved to locate downpipe bracket							
68	8	WRGB	 2107.25				





Size (mm)	Angle	Z1	Z2	Colour	Code			
SHORT BEND -To change pipe direction: 92½° and 112½° bends To construct 'swan necks', use two 112½° bends								
68	921/2	44	32	WRGB	2108.25.92			
68	112½	32	22	WRGB	2108.25.112			

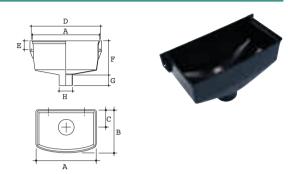




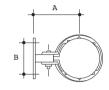
Size (mm)	Angle	Z 1	Z2	Z3	Colour	Code
BRANCH -To	join 68mm bi	anch pip	e to 68mm	n vertical p	pipe at an angle	90° and 112½°
68	90	29	54	54	WRGB	2109.25.92
68	112½	29	54	54	WRGB	2109.25.112

Rainwater Downpipe System - 68mm

Siz	e (mm)				D					Code
	IWATER H		olour	s: W I	RGB	- То со	llect su	rface w	ater at	roof level where
	68	250	140	66	273	38	179	44	64	2111.25

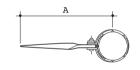


Size (mm)	A*	В	Colour	Code
PIPE AND FITTING adjustment. * A max		(ADJUSTABLE) -/	Allows up to 10mm	stand-off
68	63	51	W G B	2112.25.T





Size (mm)		Colour	Code
PIPE AND FITTING BI (to back of pipe): 52mm	RACKET (DRIVE-IN) -	Minimum stand-off di	stance
68	210	W B	2112.25.D





Size (mm)	Α	В	С	Colour		Code
PIPE FITTING CL	IP - Minin	num stand-off	distance (to	back of pipe):	32mm	
68	66	90	110	W B		2113.25





Size (mm)	A	В	Colour	Code
CENTRAL FIXING	G CLIP - Minimu	m stand-off distan	ice (to back of pip	oe): 32mm
68	70	40	WRBG	2113.25C





Terrain Rainwater Downpipe Systems

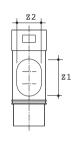
Rainwater Downpipe System - 68mm





Siz	e (mm)	Α	В	С	Colour	Code
PIPE	FITTING B	RACKET -	To secure do	wnpipe to w	all	
	68	66	131	114	WRBG	2116.25

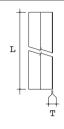




Size (mm)	Code			
ACCESS PIPE -				
68	76	51	WRBG	2137.25

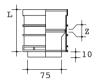
Rainwater Downpipe Systems - 82mm

	Size (mm)	L	Z	Colour	Code
8	32MM DOWNPIF	PE - Plain ended	lengths		
	82	4.0m	2	WRB	2100.3.40



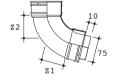


Size (mm)	Code						
STRAIGHT COUPLER (DOUBLE SOCKET) - For joining pipe lengths							
82	92	3	WRB		2107.3		





Size (mm)	Angle	Z1	Z2	Colour	Code
SWEPT BEND - To construct 'swar	andard				
82	92½	70	72	WRB	2101.3.92
82	112½	43	75	WRB	2101.3.112 †
82	135	16	22	WRB	2101.3.135





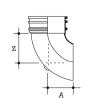
[†] Fabricated

Size (mm)	Angle	Z1	Z2	Z3	Colour	Code
BRANCH (ALL 112½° and 135°		-To join	branch pip	oe to same	e size vertical pip	ne at an angle 92½°,
82	921/2	70	83	35	WRB	2109.3.92
82	112½	71	83	35	WRB	2109.3.112 †

[†] Fabricated



Size (mm)	А	Z	Colour	Code
SHOE - To termina	ate rainwater dow	npipe discharging o	over gully	
82	64	86	WRB	2110.3

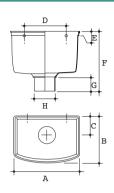




Terrain Rainwater Downpipe Systems

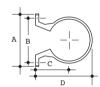
Rainwater Downpipe Systems - 82mm





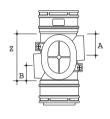
ize (mm)	Α	В	C	D	Е	F	G	Н		Code
 INWATER H ters are not po		olour	s: W F	RGB-	То со	llect sur	face w	ater at	roof lev	el where
82	254	190	75	152	15	222	51	75		2111.3





Size (mm)			C	D	Colour		Code		
ONE-PIECE DOWNPIPE BRACKET - To support pipe and fittings – stand-off distance (to back of pipe): 35mm									
82	132	110	76	117	WRB		143.3		

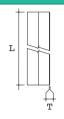




Size (mm)	А	В	Z	Colour		Code		
ACCESS PIPE - To allow pipe cleaning or inspection								
82	41	39	120	WRB		2137.3		

Rainwater Downpipe Systems - 110mm

Siz	e (mm)		T(min)	Colour	Code
1101	MM DOWN	PIPE - Plain ende	d lengths		
\$	110	3.0m	2.44	W B G	<u></u>
8	110	4.0m	2.44	W B G	<u> </u>



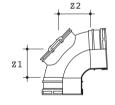


Size (mm)		Z1	Z2	Colour	Code		
SWEPT BEND - To change pipe direction: 92½°, 112½° and 135° as standard							
110	921/2	75	83	W B G	<u></u>		
110	1121/2	65	63	W B G	101.4.112		
110	135	30	30	W B G	101.4.135		



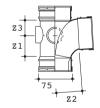


Size (mm)	Angle	Z1	Z2	Colour		Code
ACCESS BEN	ND (DOUBLE	SOCKET)	- To allow p	ipe cleaning or i	nspection	
110	921/2	102	98	WBG		103.4.92





Siz	ze (mm)	Angle	Z1	Z2	Z3	Colour	Code
BRA and		SOCKET)	-To join	branch pip	e to same	e size vertical pip	e at an angle 92½°
	110	921/2	82	82	54	WBG	104.4.92
	110	135	25	137	137	WBG	104.4.135



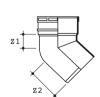


Size (mm)) Angle	Z1	Z2	Z3	Colour		Code	
ACCESS BR	ACCESS BRANCH - To allow pipe cleaning or inspection at junction of two pipes							
110	92½	99	96	50	WBG		105.4.92	

Z3 Z1 Z3 Z3	



Size (mm)	Angle	Z1	Z2	Colour		Code		
SPIGOT BEND	SPIGOT BEND - To change pipe direction in limited-space situation							
110	135	30	30	W B G		107.4.135		

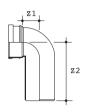




Terrain Rainwater Downpipe Systems

Rainwater Downpipe Systems - 110mm





Size (mm)	Angle	Z1	Z2	Colour	Code	
SPIGOT BEND (LONG TAIL) - To change pipe direction in limited-space situation							
	110	921/2	57	197	W B G	107.4.92	





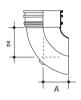
Size (mm)	L	Z	Colour	Code
STRAIGHT COU	PLER - For joining	pipe lengths		
110	102	3	W B G	110.4





Size (mm)	L	Z	Colour	Code
EXPANSION CO solvent system	DUPLER - To crea	ate expansion joint	when joining pipe	lengths in a
110	123	3	W B G	111.4

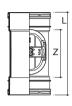




Size (mm)	A	Z	Colour	Code
SHOE - To terminat	te rainwater dow	npipe discharging	over gully	
110	77	86	W B G	2110.4

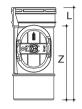
Rainwater Downpipe Systems - 110mm

	Size (mm)	L	Z	Colour	Code	
A	ACCESS PIPE - T	o allow pipe clea	ning or inspection			
	110	216	115	WBG	138.4	



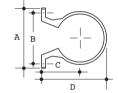


Size (mm)			Colour	Code
ACCESS PIPE -	To allow pipe clea	ning or inspection		
110	216	166	W B G	139.4





Size (mm)	Α	В	C	D	Colour		Code
ONE-PIECE D (to back of pipe		BRACK	ET - To s	support pip	e and fittings –	stand-o	ff distance
110	146	124	91	151	W B G		143.4

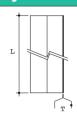




Terrain Rainwater Downpipe Systems

Rainwater Downpipe Systems - 62mm





	Size (mm)	L	T(min)	Colour	Code
I	DOWNPIPE - Plain	n ended lengths			
	62	3.0m	1.8	WRBG	2200.23.30
	62	4.0m	1.8	WRBG	2200.23.40
	62	5.5m	1.8	WRBG	2200.23.55





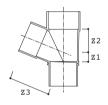
Size (mm)		Colour	Code
STRAIGHT CONNE	CTOR - For joining pipe len	gths	
62	6	W R B G	2207.23





Size (mm)	Angle	Z1	Z2	Colour	Code
BEND - To change To construct 'swa				nds as standard	b
62	921/2	30	40	WRBG	2208.23.92
62	1121/2	24	32	WRBG	2208.23.112





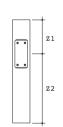
Size (mm)	Angle	Z1	Z2	Z3	Colour	Code
BRANCH - To j	join 62mm b	ranch pi	pe to 62m	m vertica	ll pipe at an an	gle 112½°
62	112½	20	49	87	WRBG	2209.23.112





Size (mm)	А	Z	Colour	Code
SHOE - To termina	te rainwater dow	npipe discharging	over gully	
62	51	64	WRBG	2210.23

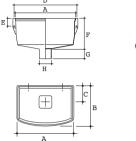




Z1	Z2	Colour		Code
allow pipe clean	ing or inspection			
150	300	WRB		2237.23
	o allow pipe clean	o allow pipe cleaning or inspection	o allow pipe cleaning or inspection	o allow pipe cleaning or inspection

Rainwater Downpipe Systems - 62mm

Size (mm)				D					Code	
RAINWATER H Availble colours V		To coll	ect sur	face wa	ter at	roof lev	el whe	re gutt	ers are not possible	
62	274	128	44	295	38	179	44	58	2211.23	





Size (mm)	A*		C	Colour	Code
PIPE AND FITT adjustment. *A ma		KET (ADJUS	STABLE) - A	llows up to 32mm	stand-off
62	42	102	126	W R B G	2212.23





Size (mm)	Α	В	С	Colour	Code
PIPE AND FITT adjustment	ING BRACI	KET (ADJU:	STABLE) - A	llows up to 32m	ım stand-off
62	44	111	127	WRBG	2213.23





Size (mm)	А	В	С	Colour	Code
LONG STAND-0	FF DOWN	IPIPE BRAC	CKET - Allow	vs up to 32mm st	and-off adjustment
62	62	93	109	WRBG	2216.23





Size (mm)			Colour	Code
WALL OFFSET - to 57mm	To allow downpi	ipe to accommodat	e wall plinth or oth	ner obstruction up
110	57	22	WRBG	2214.23

	+
$\langle \times \rangle$	Z
	+
A	



Size (mm)	Z	Colour	Code				
ADAPTOR (SQUARE TO ROUND) - For connecting 62mm square to 68mm round down pipe							
62/68	24	W R B G	2215.23.25				

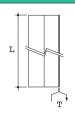




Terrain Rainwater Downpipe Systems

Streamline Rainwater Systems Downpipe - 75mm





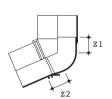
Si	ze (mm)	L	T(min)	Colour	Code
DO	WNPIPE - Plai	n ended lengths			
	75	4.0m	2	WRB	2300.33.40





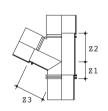
Size (mm)	Z	Colour	Code
STRAIGHT CONNEC	TOR - For joining pipe lengt	hs	
75	8	W R B	2307.33





Size (mm)	Angle°	Z1	Z2	Colour	Code			
BEND- To change pipe direction: 112½° bends To construct 'swan necks', use two 112½° bends								
75	112½	29	36	WRB	2308.33.112			
Size (mm)	D	imension	S	Colour	Code			
3X3"SQ S/LINE BEND								
75		Fabricated		WRB	S2308.33.92			





Siz	e (mm)	Angle°	Z1	Z2	Z3	Colour	Code		
BRANCH - To join 75mm branch pipe to 75mm vertical pipe at an angle 112½°									
	75	112½	48	65	67	WRB	2309.33.112		
Siz	e (mm)		Dime	nsions		Colour	Code		
3X3"SQ S/LINE BRANCH									
	75		Fahri	cated		WRB	S2309.33.92		

Streamline Rainwater Systems Downpipe - 75mm

Size	(mm)	Α	Z	Colour	Code
SHOE	- To termin	ate rainwater down	pipe discharging o	ver gully	
	75	55	68	WRB	2310.33





Size (mm)	Α	В	C	D	Е	F	G	Н	Code
RAINWATER F gutters are not po		Colour	s: W	R B - To	o colle	ct surfa	e wat	er at ro	oof level where
75	253	180	75	153	15	234	45	70	2311.33





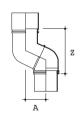


Size (mm)	А	В	С	Colour	Code
PIPE AND FITTI	NG BRACI	KET - Stand-	off distance (to back of pipe): 1	3mm
75	50	124	140	W R B	2313.33





Size (mm)	Α	Z	Colour	Code
WALL OFFSET - to 57mm	To allow downp	ipe to accommodate	wall plinth or of	ther obstruction up
75	57	127	WRB	2314.23



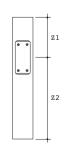


Size (mm)	Z	Colour	Code				
ADAPTOR (SQUARE TO SQUARE) - To adapt 2353.6.33 Running Outlet/Pipe to discharge into 2200 Downpipe (62mm square)							
75/62	16	WRB	2315.33.23				





Size (mm)	Z1	Z2	Colour		Code			
ACCESS PIPE - To	ACCESS PIPE - To allow pipe cleaning or inspection							
75	150	300	WRB		2337.33			

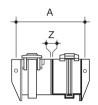




Terrain Crescent System

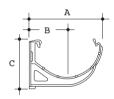






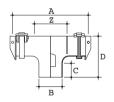
Size (mm)	А	Z	Colour	Code				
JOINT BRACKET - For joining gutter lengths								
110	117	1.5	WRBG	<u></u> 2151.4				



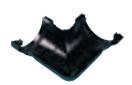


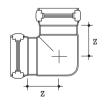
Size (mm)	Α	В	С	Colour	Code
SUPPORTING B	RACKET - I	or supporting	g gutter leng	ths, angles and	stop-end outlets
110	126	66	83	WRBG	2152.4





Size (mm)	Α	В	С	D	Z	Colour	Code
RUNNING OUTLET - For connecting gutter run to downpipe							
110	214	68	35	117	95	WRBG	<u></u>





Size (mm)	Angle	Z	Colour	Code
GUTTER ANGLE	- To change gutter	run direction: 90°	, 120° and 135°	as standard
110	90	88	WRBG	2154.4.90
110	120	60	WRBG	2154.4.120
110	135	54	WRBG	2154.4.135
110	156	96	WRBG	2154.4.156

Crescent Rainwater Systems - 110mm

Crescent



Size (mm)		Colour	Code	
SHORT STOP-END - 1	o cap open gutter end			
110	43	WRBG	2155.4	



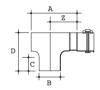


Size (mm)	А	Colour	Code
INTERNAL STOP-EN	D - To cap open gutter end	1	
110	33	В	2156.4





Size (ı	mm)			С	D		Colour	Code
STOP END OUTLET - To cap open gutter and connect gutter run to downpipe.								
	110	145	68	35	117	84	WRBG	2157.4.25





Size (mm)	mm) Colour					
ADAPTOR TO OTHER PVC-U GUTTERS - 2100 adaptor to all round rainwater systems						
110	Self coloured	2167				





Size (mm)			Colour	Code			
CRESCENT TO 4½" CAST IRON SPIGOT - Socket adaptor to receive spigot end of half-round cast iron gutter							
110	57	22	B G	2158.4.45			





Size (mm)	Α	В	Colour	Code			
	CRESCENT TO 41/2" CAST IRON SOCKET - Spigot-end adaptor for linking into socket-end of half-round cast iron gutter						
110	57	19	B G	2159.4.45			

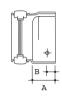




Terrain Crescent System

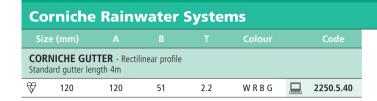






Size (mm)	Α	В	Colour	Code			
CRESCENT TO 4½" OGEE CAST IRON SOCKET - Spigot-end adaptor for linking into socket-end of ogee cast iron gutter							
110	62	22	В	2169.4.45			

Terrain Corniche System



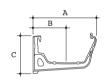


Size (mm)	Α	Z	Colour	Code
JOINT BRACKET	- For joining gut	ter lengths		
120	114	1.4	WRBG	2251.5



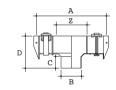


Siz	e (mm)	Α	В	C	Colour		Code	
SUP	SUPPORT BRACKET - For supporting gutter lengths, angles and stop-end outlets							
	120	134	71	81	WRBG		2252.5	





Size (mm)	Α	В	С	D	Z	Colour	Code
RUNNING OUTLET - For connecting gutter run to downpipe								
	110	193	62	44	105	75	WRBG	2253.5.23





Terrain Corniche System







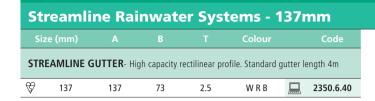
Size (mm)	А	Colour	Code
SHORT STOP-END - To	cap open gutter end		
120	43	W R G B	2255.5





Size (mm)	Α	В	С	D	Z	Colour	Code
STOP-END OUTLET - To cap open gutter end and connect gutter to downpipe							
120	106	62	44	106	65	WRBG	2257.5.23

Terrain Streamline System





Size (mm)	Α	Z	Colour	Code
JOINT BRACKET	- For joining gut	ter lengths		
137	149	2	W R B	2351.6.12



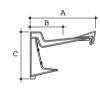


Size (mm)			C	Colour	Code				
SUPPORT BRACKET - For supporting gutter lengths									
137 153 82 115 W R B 2352.6									



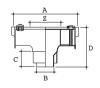


Size (mm)	Α	В	С	Colour	Code
OVERSLUNG B appearance	RACKET- L	eaves front f	face of gutter	uncluttered for	improved
137	162	82	114	W R B	2352.150





Size (mm)			С	D		Colour		Code
RUNNING OUTLET - For connecting gutter run to downpipe To 75mm square downpipe								
137	281	75	45	157	133	WRB		2353.6.33
To 82mm round	To 82mm round downpipe							
137	281	75	50	174	133	WRB		2353.6.3
To 110mm round downpipe								
137	281	103	50	157	133	WRB		2353.6.4







Terrain Streamline System

Streamline Rainwater Systems - 137mm

Streamline







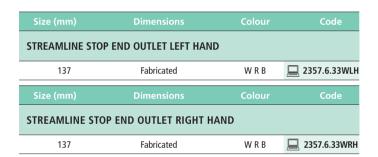
Size (mm)	Angle°	Z	Colour	Code
GUTTER ANGLE	- To change gutter	run direction: 90	° and 135° as stand	ard
137	90	85	W R B	2354.6.90
137	135	40	WRB	2354.6.135





Size (mm)	А	Colour	Code
SHORT STOP-END - To	cap open gutter end		
137	71	W R B	2355.6





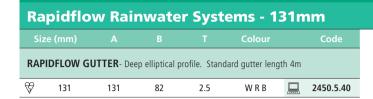


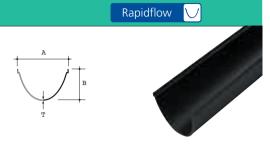




Si	ze (mm)	Α	В	C	D	Colour	Code	
SCF Allov	SCREWED OUTLET ADAPTOR - Spigot outlet to be set into gutter base Allows connection to 75mm square downpipe. *Use 75mm hole cutter							
	75	68	45	70	75	WRB	2368.3	

Terrain Rapidflow System





Size (mm)	Α	Z	Colour	Code
JOINT BRACKET	- For joining gu	tter lengths		
131	115	1.5	W R B	2451.5





Size (mm)	А	В	С	Colour		Code
SUPPORT BRACKET- For supporting gutter lengths, angles and stop-end outlets						
131	145	76	115	WRB		2452.5



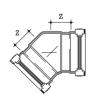


Size (mm)	Α	В	С	D	Z	Colour		Code
RUNNING OUTLET - For connecting gutter run to downpipe To 68mm round downpipe								
131	266	68	35	188	144	WRB		2453.5.25
To 82mm round downpipe								
131	266	82	45	188	144	WRB		2453.5.3



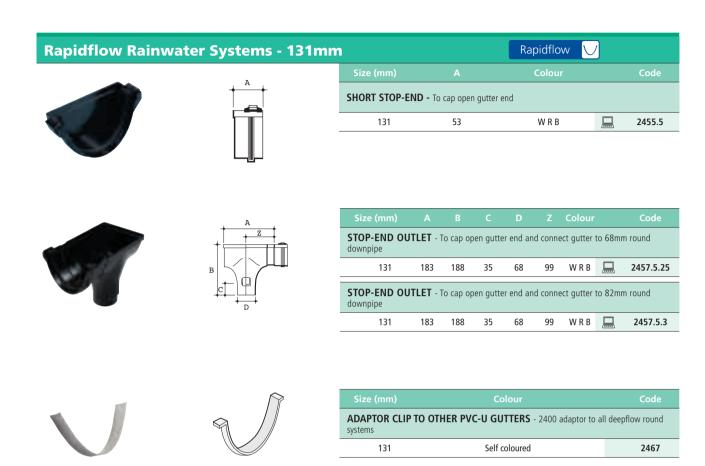


Size (mm)	Angle°	Z	Colour	Code
GUTTER ANGLE	- To change gutte	er run direction: 90)° and 135° as st	andard
131	90	109	WRB	2454.5.90
131	135	63	WRB	2454.5.135

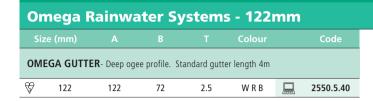




Terrain Rapidflow System



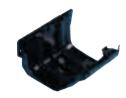
Terrain Omega System





Size (mm)	Α	Z	Colour	Code
JOINT BRACKET	- For joining g	utter lengths		
122	137	2.0	WRB	2551.5



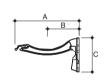


Size (mm)	Α	В	С	Colour		Code
UNDERSLUNG	SUPPORT	BRACKET	- For suppor	ting gutter le	ngths	
122	138	70	104	WRB		2552.5C
2552.5 is for use v	with Rafter b	rackets				
122	138	70	104	WRB		2552.5



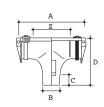


Size (mm)	А	В	С	Colour		Code
OVERSLUNG S improved appeara		RACKET- L	eaves front f	ace of gutter	unclutte	ered for
122	142	70	76	WRB		2552.5.150





Size (mm)	А	В	С	D	Z	Colour		Code
RUNNING OU	TLET - Fo	or conne	cting gu	tter run t	o 68mm	or 62mm	n downp	oipe
122	261	62	41	156	125	WRB		2553.5.25





Terrain Omega System

Omega Rainwater Systems - 122mm





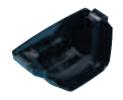


		Om	nega 💚	
Size (mm)	Angle°	Z	Colour	Code
INTERNAL GUT	TER ANGLE - To o	:hange gutter run	direction: 90° and	135° as standard
122	90	93	W R B	2554.5.901
122	135	27	WRB	2554.5.1351





Size (mm)	Angle°	Z	Colour	Code
EXTERNAL GUT	TER ANGLE - To	change gutter ru	un direction: 90° 8	& 135° as standard
122	90	67	WRB	2554.5.90E
122	135	23	WRB	2554.5.135E



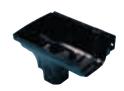


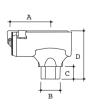
Size (mm)	Α	В	Colour	Code
SHORT STOP-EN boundaries. Left (L)	I D (EXTERNA and Right (R) ha	L) - To cap open gund versions are ava	itter end at exte ilable	ernal roofline
122	83	75	WRB	2555.5L
122	83	75	WRB	2555.5R



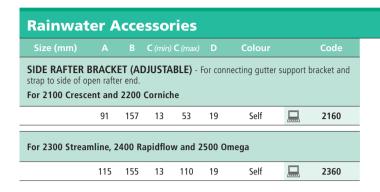


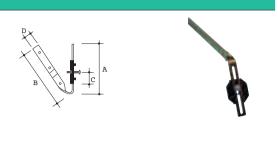
Size (mm)	А	Colour	Code		
INTERNAL STOP-END - To cap open fitting end and at internal roofline boundaries. Left (L) and Right (R) hand versions are available					
122	120	W R B	2556.5L		
122	120	W R B	2556.5R		



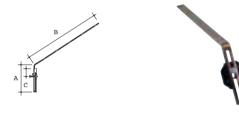


Size (mm)	Α	В	C	D	Colour	Code	
STOP-END OUTLET - To cap open gutter end and connect gutter to 68mm or 62mm downpipe. Left (L) and Right (R) hand versions are available							
122	120	62	41	156	WRB	2557.5.25L	
122	120	62	41	156	WRB	2557.5.25R	

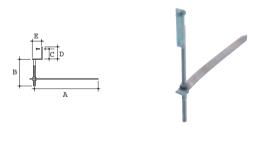




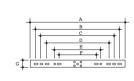
Size (mm)			C (min)	C (max)	Colour		Code	
TOP RAFTER BRACKET (ADJUSTABLE) - For connecting gutter support bracket and strap to top edge of open rafter end.								
For 2100 Crescent and 2200 Corniche								
	86	250	26	79	Self		2161	
For 2300 Streamline, 2400 Rapidflow and 2500 Omega								
	115	250	26	104	Self		2361	



Size (mm)	Α	В	C	D	Е	Colour		Code
RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET - To support gutter support bracket and strap where no fascia or rafters are available.								
For 2100 Crescent and 2200 Corniche								
	260	130	50	62	43	Self		2162
For 2300 Streamline, 2400 Rapidflow and 2500 Omega								
	275	152	83	93	57	Self		2362



Α						D (max)		F (min)		G	Code
SUPPORT STRAP (ALL SYSTEMS) - Provides support for gutter fittings (running outlets and joint brackets) where fitting to rafters is required - Self Coloured											
310	266	281	235	241	193	212	149	115	127	25	2265









			Colour	Code
SPACER BLOCK For 2100 Crescen	•		f distance of gutter	support bracket.
	76	16	В	2166





	А	В	Colour		Code		
SPACER BLOCK (TAPERED) - To compensate for 22 ½° of sloping fascia. For 2100 Crescent and 2200 Corniche							
	76	33	В		2166.22		



	Colour	Code			
GUTTER SEAL - Replacement seals for gutter fittings at connection points					
for 2100 Crescent	В	9911			
for 2200 Corniche	В	9922			
for 2300 Streamline and 2500 Omega	В	9933			
for 2400 Rapidflow	В	9944			





Size (mm)	Colour	Code				
GUTTER OUTLET GUARD - For placement over outlet aperture to reduce risk of downpipe blockages by leaves, other debris etc. Suitable for 68mm round and 62mm square outlets						
122	В	9915.25				





Size (mm)	Colour	Code				
ADAPTOR TO OTHER PVC-U GUTTERS - 2150 adaptor to all round rainwater systems						
110	Self	2167				

Size (mm)	Colour	Code				
ADAPTOR CLIP TO OTHER PVC-U GUTTERS - 2450 adaptor to all deepflow round systems						
131	Self	2467				





Size (mm)	L	Colour	Code			
ADAPTOR TO UNDERGROUND DRAIN - For connecting 68mm downpipe to 82mm underground drain.						
68/82	54	В	3DW25			





Size (mm)			Colour	Code			
ADAPTOR TO UNDERGROUND DRAIN - For connecting 68mm downpipe to 110mm underground drain							
68/110	54	10	В	4DW25			





_		F
ш	7	F
-	_ -	F

Size (mm)	L	Colour	Code	
ADAPTOR TO UNDERGROUND DRAIN - Connects 62mm or 75mm downpipe to 110mm underground drain.				
62/110	54	В	4DW23	





Size (mm)		Colour	Code	
ADAPTOR TO UNDERGROUND DRAIN - Connects 82mm downpipe to 110mm underground drain				
82/110	54	В	4DW3	





Size (mm)	L	Colour	Code
PIPE ADAPTOR 4" X 3" / 75MM SQ			
75/110	54	В	4DW33









Size (mm)	Α	В	Colour		Code
UNIVERSAL RAINWATER ADAPTOR - Connects 68mm or 62mm square downpipe to 110mm underground drain. Fits both pipe end and socket. Not for connection to foul drainage					
68/110	110	102	В		4D76



Size (ml)	Description	Code
LIQUID WELD -		
125ml	Liquid Weld Tin Bs6209	9100.125
250ml	Liquid Weld Tin Bs6209	9100.250
500ml	Liquid Weld Tin Bs6209	9100.500



Size (ml)	Description Code			
SOLVENT CLEANING FLUID -				
125ml	Solvent Cleaning Fluid	9101.125		
250ml	Solvent Cleaning Fluid	9101.250		



Size (ml)	Description	Code		
LUBRICANT - For lubricating seal rings on expansion fittings				
250ml	Terrain Silicone Lubricant	9136.250		
500ml	Terrain Soluble Lubricant	9136.500		

Fixing & Connections

Fixing centres and expansion points

Thermal movement

When fixing gutter, allowance must be made for thermal movement and all Terrain outlets, angles and joint brackets are engraved with the appropriate expansion gaps. It is important that the gutter is correctly fitted into these fittings taking due care to place the cut end of the gutter on the line marked. It is important that the expansion gaps are maintained when gutter is fitted and must not be spaced to exceed 4 metres/13ft centres.

In the case of dry jointing downpipe each fitting clip has a sight hole provided on the front of it. (2113.25C, 2216.23 and the 82mm and 110mm fitting clips do not have sight holes.)

The purpose of the sight holes is to allow sight of the top of the pipe being fitted from below. When this pipe end obscures half of the aperture you have the correct expansion gap. The maximum distance between expansion joints should not exceed 5.5 metres/18ft.

Applicable to: all Terrain gutter systems and downpipe assemblies

Maximum distance between:

Gutter support brackets*: 1 metre*
Gutter expansion joints: 4 metres
Pipe fixing clips: 2 metres
Pipe expansion joints: 5.5 metres

*NOTE: Support centres for gutters subject to risk of heavy snow fall should be reduced to 800mm (max).

For roof outlets

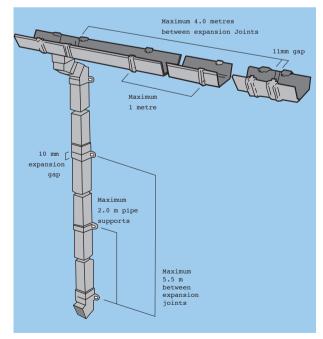


Fig. 1

For roof outlets

Application range:



Applicable to: 82mm and 110mm round pipework used with roof outlets.

Maximum distance between:

Vertical pipe fixing clips: 2 metres
Pipe expansion joints: 4 metres†

tNOTE: Anchor expansion couplings with 140 Pipe Fixing Clip to prevent thermal expansion upthrust from rupturing joint between roof outlet and finish

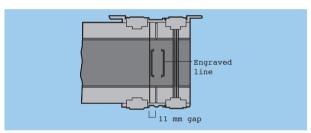


Fig. 2

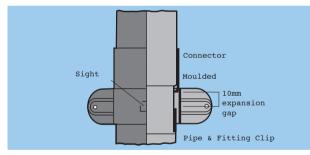


Fig. 3

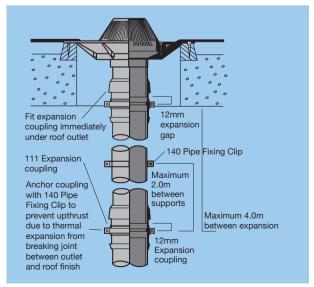


Fig. 4

System Planning

Design principles

Sizing of rainwater installations

There is an approved BS EN method for the calculation of roof flow load, and the following general guidelines and assumptions on sizing of rainwater installations are based on this. For detailed guidance on a particular project, please refer to 'BS EN 12056-3:2000 Gravity Drainage Systems Inside Buildings – Roof Drainage, Layout and Calculations', or contact Terrain Technical Services on 01622 795200.

Rainfall

In the UK, it is generally satisfactory for eaves gutters to be designed for a rainfall intensity of 75mm/hr. The predicted frequency of storms producing intensities of 75mm/hr is low, with just one 2 minute duration fall of such intensity anticipated each year.

A good factor of safety is therefore built into any design using these values. However, when designing for closed areas such as lightwells, flat roofs or similar the rainfall intensity value allowed for should be increased. Again, please refer to 'BS EN 12056-3:2000'.

Snow

The following should be taken into account when designing guttering systems when snow loads are common or likely.

British Standards BS EN 12056-3:2000

Section NB4 states:

Gutter designed for rainfall will have adequate flow capacity for the removal of melting snow. However, gutters and outlets can become blocked by frozen snow but this can be avoided by the use of trace heating or snow boards.

Snow guards may be fitted to the eaves of a pitched roof where sliding snow may cause injury to people or damage to structures below. Depending upon what is at risk, snow guards can be necessary for roof pitches up to 60° from the horizontal and they need not be higher than 300mm for most situations. The fixings should be strong enough to withstand the forces calculated in accordance with BS 639903.

Section 7.2.2 states:

In areas where snow lies on roofs, the front edge of the gutter should not be higher than the projected line of the roof, unless snow quards or other precautions are used.

Terrain recommends that in designs where snow is likely, the gutter support brackets should be fixed at maximum of 800mm centres. In areas of high risk of snow Terrain recommends the use of snow guards or other protection.

Wind

There is no requirement to allow for the effect of wind when designing a rainwater system for flat roofs or roofs protected from the wind by adjacent buildings. However, the wind and the roof slope can have the effect of increasing the roof flow load for unprotected pitched roofs. This is allowed for in the 'BS EN 12056-3:2000' calculation method by adding half the rise to the roof span.

Roof Flow Load: How to calculate it

There are two factors to consider when calculating flow. Firstly the area to be drained, or 'effective roof area'; and the intensity of rainfall.

For the intensity of rainfall you should assume 75mm/hr except for enclosed areas such as lightwells and flat roofs.

Effective Roof Area

Effective Roof Area can be calculated using the following formula, as illustrated in *Fig.5*.

 $ERA(m2) = (W + H/2) \times L (Fig.5)$

KEY:

ERA = Effective Roof Area (square metres)

W = horizontal distance from eaves to point directly

below ridge

H = vertical rise between

eaves and ridge (metres)

L = gutter length (metres)

Calculating the actual flow

Once you have calculated the ERA, for 75mm/hr rainfall intensity

FLOW (litres/second) = ERA (m2) x 0.0208

For other rainfall intensities

FLOW = ERA (m2) x rainfall intensity (mm/hr)/3600 = litres/second

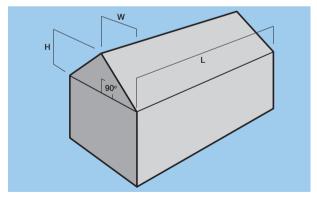
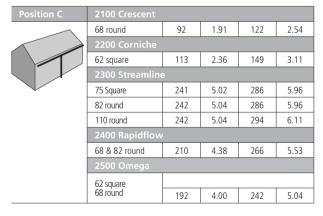


Fig.

Flow load calculations

	Downpipe	Level	Gutter		tter O fall	
	Size/Type (mm)	Area (m²)	Flow (I/s)	Area (m²)	Flow (l/s)	
Position A	2100 Crescent					
	68 round	46	0.96	61	1.27	
	2200 Corniche					
	62 square	53	1.10	72	1.50	
	2300 Streamline					
	75 Square					
	82 and 100 round	123	2.56	147	3.06	
	2400 Rapidflow					
	68 & 82 round	105	2.19	133	2.77	
	2500 Omega					
	62 square					
	68 round	96	2.00	121	2.52	

Position B	2100 Crescent					
	68 round	37	0.77	49	1.02	
	2200 Corniche					
	62 square	42	0.87	58	1.21	
	2300 Streamline					
	75 Square 82 and					
	100 round	103	2.14	123	2.56	
	2400 Rapidflow					
	68 & 82 round	86	1.79	109	2.27	
	2500 Omega					
	62 square					
	68 round	77	1.60	97	2.02	



Roof outlet flow load: calculation method

For a flat roof (i.e. a roof with a pitch less than 10°), the effective roof area = the plan area of the relevant part of the roof.

To calculate flow in litres/second for 75mm/hr rainfall intensity: firstly measure plan area of roof served by each outlet (square metres) and then multiply area by 0.0208 to obtain flow (litres/second)

NOTE: See Code of Practice BS EN 12056-3:2000 for full details

Roof outlets flow data

The flow rates listed have been established by independent testing carried out by the Rainwater Drainage Design Company using facilities at the Hydraulics laboratory of Salford University.

Roof outlet	Size	litres/sec	Flow capacity Head of water	r at outlet
part no.		30mm	50mm	100mm
2180.2	50	0.88	1.18	1.78
2180.3	82	2.12	2.52	3.21
2181.2	50	2.00	2.27	2.69
2181.3	82	2.10	4.89	7.22
2170.3	82	9.18	11.08	13.67
2170.4	110	9.29	14.11	18.22
2171.3	82	4.94	9.24	16.64
2171.4	110	5.17	9.95	24.18

Note: Figures based on 75mm/hr rainfall intensity

General Principles

Good Site Practice - Handling

- Take all reasonable care when handling PVC-u, particularly in very cold conditions.
- Load and unload loose pipes by hand.
- In case of mechanical handling, avoid the use of chains and hooks.

On site storage

- Stack pipe lengths:
 - either on a flat base
 - or on level ground
 - or on 75mm x 75mm timber at 1m maximum centres.
- Provide side support with 75mm wide battens at 1m centres (see Fig.6).
- Maximum stack: seven layers high.
- Ideally, stacks should contain one diameter pipe size only. Where this is not possible, stack largest diameter pipes at base of stack. Small pipes may be nested inside larger pipes.
- If stored in the open for long periods or exposed to strong sunlight, cover the stack with opaque sheeting.
- Store fittings under cover. Do not remove from cartons or packaging until required.
- Gutters should be kept under similar storage conditions, but additional care should be taken to protect the profile.
- Store solvent cement and cleaning fluid in a cool place out of direct sunlight and away from any heat source.

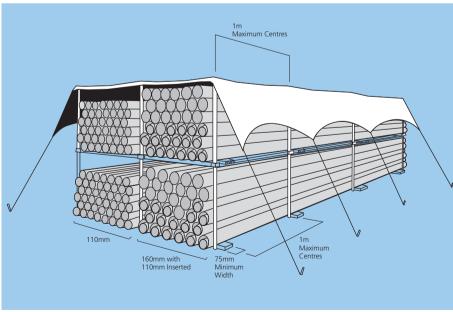


Fig. 6

Gutter Installation

Gutter Installation

General principle

Applicable to: all Terrain gutter systems

- Lock back clips of fittings in position and screw fitting to fascia where applicable
- Locate back of gutter under rear clip ensuring that the expansion gap is correct (see page 2)
- Pull front of gutter down and push front clip into position. To release gutter for adjustment, pull on tab at front of fitting

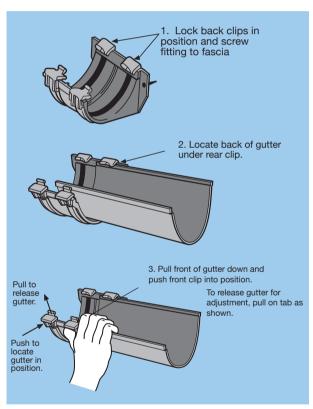


Fig. 7

Connecting to other gutter systems

Application Range



Applicable to: 2100 CRESCENT and 2400 RAPIDFLOW

- Gutter Adaptor Clips (2167.4 for 2100 CRESCENT, 2467.5 for 2400 RAPIDFLOW) permit connection between Terrain systems and PVC-u guttering of a similar design from other manufacturers
- Remove front locking clip from the side of Terrain fitting which is to take the connection, BUT DO NOT DISCARD
- Lay the other manufacturer's gutter into the fitting, ensuring that it sits correctly within the fitting and that the expansion gap is correct
- Insert one end of the Adaptor Clip under the back locking clip
- Holding the adaptor clip in position, re-insert the front locking clip
- Check that the gutter is fully seated within the fixing clip
- Push the front of the Adaptor Clip down onto the locking clip seat

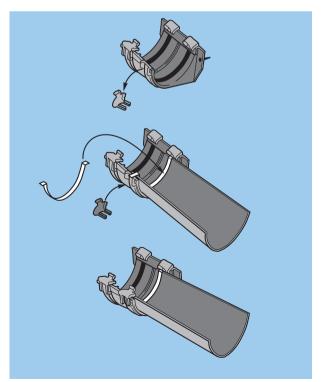


Fig. 8 2400 RAPIDFLOW system

Gutter Installation

Fixing principles

Secure fixing: screw specification

Applicable to: all Terrain gutter systems

- All Terrain gutter systems are designed to withstand maximum anticipated loading (e.g. heavy snow) without breaking
- Any method of fixing the gutter system to the building fabric MUST be equally capable of bearing such loading
- Assuming fixing to nominal 25mm thick softwood, fascia screws should be:
 - Size: No.10 roundhead* zinc-plated
 - Length: penetrating wood by minimum 19mm

*Some fittings are manufactured with countersunk holes (Omega). In such cases countersunk screws may be used

Fixing methods

Applicable to: all Terrain gutter systems

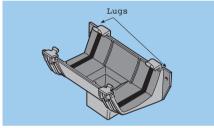


Fig.9a 2200 CORNICHE system

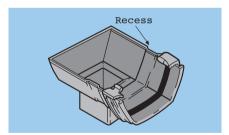


Fig.9b

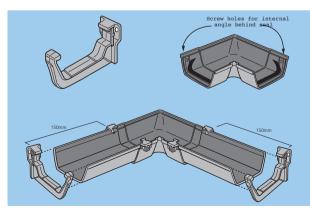


Fig.10

- Generally, Terrain gutter fittings (brackets, outlets, angles) are designed with:
 - EITHER integral fixing lugs (Fig.9a)
 - OR recess(es) (Fig.9b) which accept a standard support bracket

IMPORTANT NOTE: Whichever method is used, ALL fittings must be anchored

 In some cases, Terrain gutter fittings are designed with screw fixing holes behind the seal, eg gutter angle 2354.6.90. If it is not possible to secure gutter angles through the screw fixing holes, then support brackets must be fitted to the gutter within 150mm of the angle on both sides

Spacer blocks

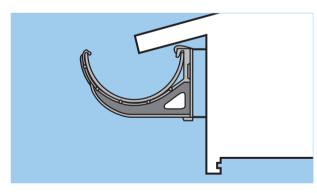
Application range:



Applicable to: 2100 CRESCENT and 2200 CORNICHE systems

Designed to enable 2100 and 2200 systems to accommodate large tile overhangs, placing the gutter centrally beneath the tile edge. Avoids the need to use a larger gutter system. 2166 Spacer (rectangular): Steps out gutters by 16mm 2166.22 Spacer (triangular): Allows gutters to be fixed to 221/2° sloping fascias

- Screw fix spacer to fascia through fixing holes provided
- Fix bracket THROUGH spacer, solidly into fascia



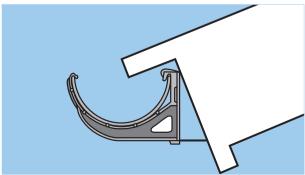


Fig.11

Fixing Brackets

Fixing adjustable rafter bracket

Applicable to: all Terrain gutter systems

- For fixing gutter systems to open-ended rafters where no fascia exists
 - NOTE: Only suitable for rafters in sound condition
- Choice of brackets (all adjustable):
 Side (2160 and 2360)
 Top (2161 and 2361)
- Fixing to rafter using (minimum) 2 x No.10 roundhead zinc-plated screws
- Support bracket secured by single bolt
- Pegs on rafter bracket locate in screw holes of support bracket

System	Adjustment Range (A)
2100, 2200	65mm
2300, 2400, 2500	75mm

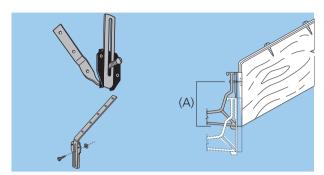


Fig.12

Support Strap

Support Strap

Gutter fitting support strap

Applicable to: all Terrain gutter systems

- For use with joint brackets and running outlets when used with any rafter bracket
- Discard PVC-u back plate from rafter bracket: retain nut and bolt to fix support strap to brackets
- Studs prevent support strap from twisting

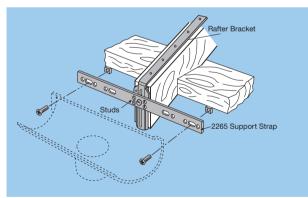


Fig.13

Gutter Installation

Drive-in Brackets

Drive-in brackets

Fixing drive-in brackets

Applicable to: all Terrain gutter systems

- For fixing gutters where no fascia board or rafters exist
- Standard version: 2162 (for 2100 CRESCENT and 2200 CORNICHE systems)
- Heavy duty version: 2362 (for 2300 STREAMLINE, 2400 RAPIDFLOW and 2500 OMEGA systems)
- Drive spike into mortar at appropriate height to allow fitting of gutter support bracket (or drill suitable hole and mortar spike in)
- Support bracket held in position by nut and bolt
- Adjust height by slackening locking nuts on threaded stud

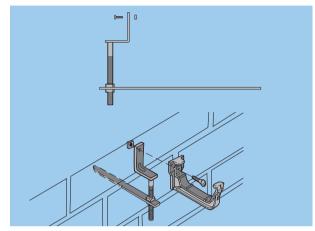


Fig.14

NOTE: If used on corbelled brickwork, ensure sufficient penetration of spike into mortar to support potential gutter loading

Downpipe Installation

Offsets

 Form an offset (or 'swan neck') using 2 x 112.5° standard bends and a cut length of plain ended pipe

Small offsets

Application range:



Applicable to: 62mm and 75mm square downpipe systems

- For 62mm square downpipe, 2214.23 Wall Offset provides 25mm offset
- For 75mm square downpipe, 2314.33 Wall Offset provides 57mm offset

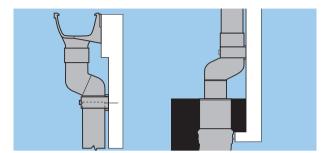


Fig.1

Adjustable Pipe Clips

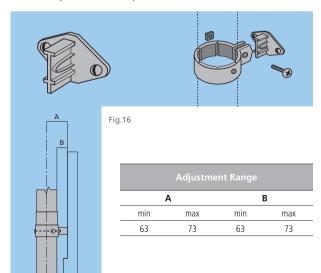
Adjustable pipe fitting clip (2112.25.T)

Application range:



Applicable to: 2100 CRESCENT, 2400 RAPIDFLOW and 2500 Omega, 68mm round downpipe

- Screw back plate to wall using No.10 roundhead screws
- Snap clip body around pipe or fitting. If around fitting, ensure it is located in the moulded groove
- Locate assembly over back plate and secure with nut and screw provided at required distance from wall



Adjustable pipe fitting clip (2212.23.T)

Application range:



Applicable to: 2200 CORNICHE and 2500 OMEGA, 62mm square downpipe

- Screw back plate to wall using No.10 roundhead screws
- Locate body over back plate. Ensure fixing nuts and screws are loosely fitted onto clip body (the screw thread should not fully penetrate the nut)
- Grip the screw heads firmly and locate onto the back plate
- Tighten fixing screws at required distance from wall

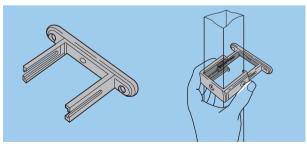


Fig.17

Downpipe Installation

Outlet Guard

Gutter outlet guard (9915.25)

Application range:





Applicable to: 68mm round and 62mm square downpipe

- Flexible polyethylene fitting designed to prevent leaves etc. entering the downpipe
- Push-fit into Stop End or Running Outlet



Fig.18

Rainwater Shoes

Fixing and locking rainwater shoes

Application range:



Applicable to: 68mm round downpipe systems

- Locate the moulded nib on retaining grooves of shoes in one of the five retaining notches on 2112 or 2113 Fixing Clip
- Five different positions are possible. Each ensures both shoe and pipe above it are fully supported

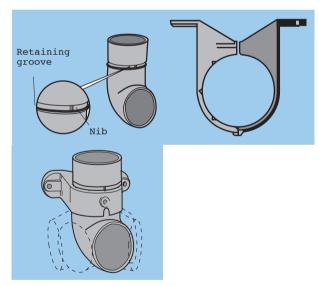


Fig.17

Rainwater Heads

Applicable to: all Terrain Downpipes

 Direct push-fit connection at correct distance from wall (Fig.20a)

2111.25 to suit 68mm round

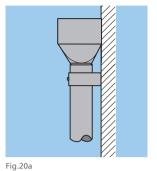
2211.23 to suit 62mm square

2111.3 to suit 82mm round

2111.4 to suit 110mm round

 Requires 25mm Offset Bend F2314.33.25 for connection to 75mm square downpipe at correct distance from wall (Fig.20b)

2311.33 to suit 75mm square



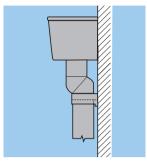


Fig.20b

Connection to Buried Pipes

Connection to buried pipes

Application range:











Applicable to: 68mm round and 62mm or 75mm square downpipe systems

 Use EPDM rubber drain adaptors to connect downpipes to 82mm and 110mm buried drains

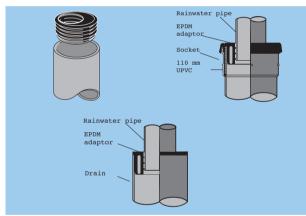


Fig.21

Outlet Adaptor

Screwed outlet adaptor (2368)

Application range:





Applicable to: 2300 Streamline with 75mm square downpipe

- Enables downpipe to be positioned anywhere along a gutter length
- Using Terrain Hole Cutter 2105.3 drill 76mm diameter hole in centre of base of gutter
- Unscrew the two parts of the adaptor and push top part with screw thread through hole in gutter outlet guard
- Screw the two parts of the adaptor together so that the gutter is clamped tightly

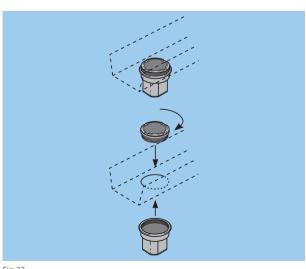


Fig.22

Downpipe Installation

Jointing

Dry jointing

Application range:



Applicable to: Terrain 62mm/75mm square downpipe assemblies and 68mm/82mm round downpipe assemblies

- Fully support all downpipe and joint fittings with fixing clips positioned at correct intervals
- Install fittings with the socket facing upstream

NOTE: All downpipe fittings – except shoes – are socket/ spigot

- Ensure pipe ends are cut square and deburred before connection to fitting
- Position pipe and fitting clip in moulded groove on fitting
- Check clip is correctly positioned, by ensuring that the expansion gap is marked
- Use the sight hole in the front of the clip to achieve the correct expansion gap

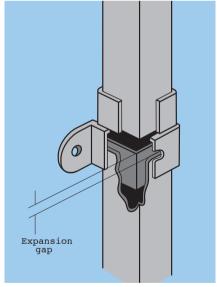


Fig.23 2200 CORNICHE system

Solvent cement jointing

Application range:



Applicable to: Terrain 110mm round downpipe assemblies

NOTE: The 2100.3 is a dry joint system for external use. If used internally, it must be solvent welded to make an air-tight system. Alternatively, the 100.3 soil system can be used.

- Cut pipe square, deburr and clean mating surfaces with 9101 Cleaning Fluid
- Coat mating surfaces with 9100 Liquid Weld, using a clean brush
- Assemble joint immediately, removing any excess cement with a clean rag

Initial set: 3-4 minutes Final set: 12 hours

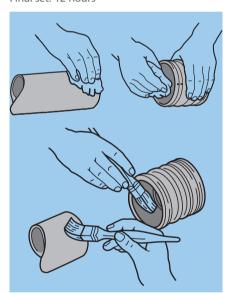


Fig.24

CAUTION: Closely follow directions for use of solvent cement as printed on the container label.

Jointing

Seal ring jointing

Application range:



Applicable to: Terrain 110mm round downpipe assemblies

REQUIREMENT: To create a 12mm expansion gap at a pipe joint to allow pipes to expand without distorting the pipework

- File square cut pipe to provide 45° chamfer. (Do not chamfer to a knife edge.) Lubricate rubber seal with 9136 Lubricant
- Push pipe fully into socket. Mark pipe as shown (Fig.25)
- Withdraw pipe until mark is 12mm from socket to provide required expansion gap
- Anchor the expansion joint with a pipe fixing clip OR (if not practical) anchor a fitting within 1 metre of the joint

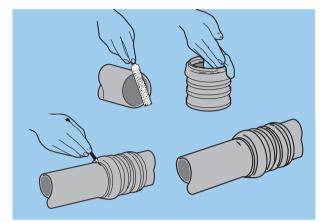


Fig.25

Conversion of solvent weld socket to ring seal joint

Application range:



Applicable to: 82mm and 110mm round solvent cemented downpipe assemblies, using 109.3/109.4 Seal Ring Adaptor

Under normal use fit 109 Adaptor to upstream socket only

- Clean mating surfaces with 9101 Cleaning Fluid
- Fit ring seal into 109 Collar
- Carefully apply solvent cement to mating surfaces
- Assemble immediately, applying firm even pressure until collar is correctly positioned

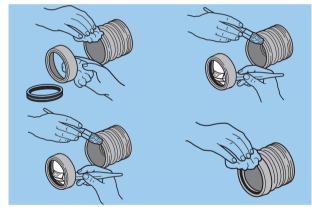


Fig.26

Balcony Outlet Installation

Balcony Outlets

Installing screed finish balcony outlet

Applicable to: 2172 Balcony Outlet

- Remove grid
- Position spacer on locating pegs
- Replace screws temporarily to prevent ingress of concrete
- Lay screed to the level of the top edge of the spacer
- Remove screws and replace grid
- Dress flashing over the rear upstand
- Tuck flashing into brickwork, joint and point

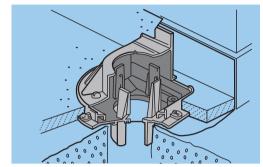


Fig.2

Installing asphalt finish balcony outlet

Applicable to: 2174 Balcony Outlet

- Remove grid
- Temporarily replace screws to prevent ingress of asphalt
- Apply a suitable primer or bonding agent up to engraved line on outlet body
- Apply asphalt layer: dress over outer rim and down to engraved line on outlet body
- Remove screws
- Offer up grid and check correct angle of dressing
- Fit washer and grid, and secure with screws

NOTE: The polypropylene washer allows the grid to be easily removed for maintenance/clearing

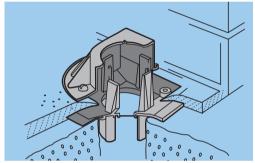


Fig.28

Connection to downpipes

Applicable to: 2172 and 2174 Balcony Outlets

- For 68mm round downpipe (2100): use 2173.3.25 Socket Adaptor
- For 62mm square downpipe (2200): use 2273.3.23 Socket Adaptor
- For 82mm round downpipe (2100.3): connect direct to balcony outlet socket
- Solvent-weld all joints (see page 46)

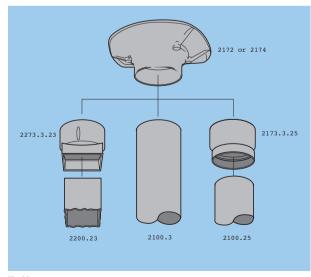


Fig.29

Small Roof Outlet Installation

Small Roof Outlets

Fixing small roof outlet to proprietary plastic finish

Applicable to: all 2180 and 2181 Roof Outlets

- Apply recommended adhesive to flange of outlet body
- Dress plastic material over flange to the edge of opening
- Secure the flat or domed grid with brass screw supplied, lightly clamping the roof finish material in position

Fixing small roof outlet to mineral felt finish

Applicable to: all 2180 and 2181 Roof Outlets

- Apply suitable bitumastic primer to flange of outlet body
- Apply liquid bitumen or activator to roof and prepared area of flange
- Lay first layer of felt to edge of flange
- Dress second and third layers over the flange to the edge of the opening
- Secure the flat or domed grid with the brass screw supplied, lightly clamping the edge of the second and third layers of felt

NOTE: 2180 and 2181 outlets are not suitable for use with hot asphalt

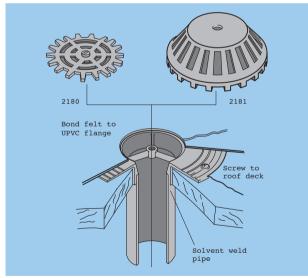


Fig.30

Connecting spigot/socket bends (small roof outlets)

Applicable to: all small diameter roof outlet

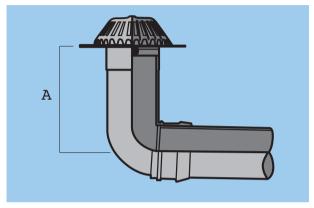
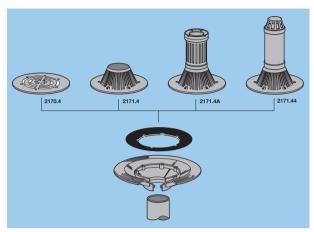


Fig.31 2181.2 Domed Outlet (small diameter)

Fittings	Outlet		nsion nm)
	size (mm) [–]		
2180.2 + 207.2.92	55	73	118
2181.2 + 207.2.92	55	73	118
2180.3 + 107.3.92	82	89	168
2181.3 + 107.3.92	82	89	168

Large Roof Outlet Installation

Grid Options



Fia.32

NOTE: 2170 flat roof outlet is not suitable for vehicular traffic

Fixing to asphalt finish

Applicable to: all 2170 and 2171 Roof Outlets

- Apply suitable bitumastic primer or bonding agent to bowl and flange of outlet body
- Dress a 19mm layer of asphalt over flange and bowl to level of upstand
- Offer up selected grid (see Fig.32 for alternative grids) check correct angle of dressing and engagement of screws
- Secure grid and washer in position with screws supplied

NOTE: The polypropylene washer allows the grid to be easily removed for maintenance/clearing

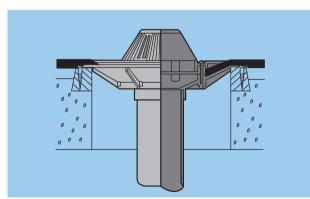


Fig.33 2171.4 Domed Outlet

Fixing to mineral felt finish

Applicable to: all 2170 and 2171 Roof Outlets

- Apply suitable bitumastic primer or bonding agent to bowl and flange of outlet body
- Apply liquid bitumen or activator to roof and prepared areas of outlet body
- Lay first layer of felt to edge of flange
- Lay second and third layers over roof outlet
- Dress down into bowl to the upstand
- Secure grid and washer in position with screws supplied

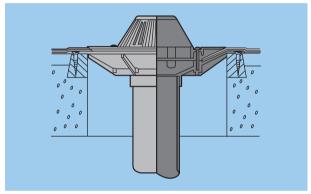


Fig.34 2171.4 Domed Outlet

Fixing to proprietary plastic finish

Applicable to: all 2170 and 2171 Roof Outlets

- Apply recommended adhesive to bowl and flange of outlet body
- Lay plastic material over roof outlet
- Dress over flange and bowl to the level of the upstand
- Secure grid and washer with screws supplied (see Fig.32 for alternative grids)

NOTE: The polypropylene washer allows the grid to be easily removed for maintenance/clearing

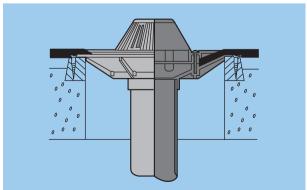
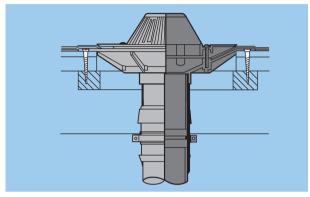


Fig.35 2171.4 Domed Outlet

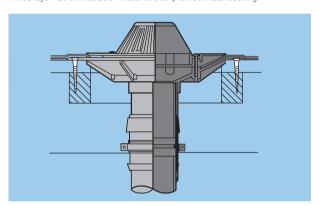
Large Roof Outlets

Anchoring on thin or uneven roof structures

Applicable to: all 2170 and 2171 Roof Outlets



Three-layer felt on insulation material over profiled metal decking



Three-layer felt on thin timber decking

Connecting spigot/socket bends (large roof outlets)

Applicable to: all large roof outlets

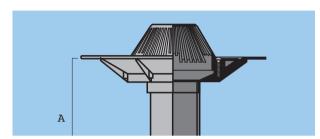


Fig.37 2171.4 Domed Outlet

Outlet		nsion nm)
size (mm)		
82	140	219
82	140	219
110	146	257
110	146	257
	82 82 110	Outlet size (mm)

General fixing details

Applicable to: balcony and roof outlets

- Solvent weld pipe-end, or spigot of bend, to roof outlet (for jointing techniques, see page 46)
- Locate outlet body in roof structure and check that a suitable rigid fixing can be made
- Screw down outlet firmly to roof structure
- Remove grid
- Apply selected roof finish

Helping you solve problems

Terrain products are backed by a comprehensive Technical Advisory Service, which is here to provide you with advice and design guidance on all aspects of above and below ground drainage.

Telephone 01622 795200 Fax 01622 716796.

Planning and development stage

The technical services available to help you at this stage include:

- Drainage system design, including detailed drawings
- Specification, product scheduling and estimating
- Design and production of bespoke fittings to meet specific application requirements
- NBS Specification clauses available

The Terrain Fabrication Service helps specifiers and contractors overcome problems both at the design stage, and on site. The Service can provide solutions to even the most demanding problems by fabricating special components to order.

Quality and assurance

Terrain is accredited to BS EN ISO 9001:2000 Management Systems. All systems are manufactured to the relevant European Standard and where applicable certified to British Standard.

- EN 607 Eaves Gutters and Fittings made from PVC-u
- EN 1462 Brackets for Eaves Gutters
- EN 12200 Plastic rainwater piping for above ground external use PVC-u

Index

CODE	DESCRIPTION	PAGE NO.
100.4.30	110MM DOWNPIPE - 3.0M	13
100.4.40	110MM DOWNPIPE - 4.0M	13
101.4.92	SWEPT BEND - 92½	13
101.4.112	SWEPT BEND - 1121/2	13
101.4.135	SWEPT BEND - 135	13
103.4.92	ACCESS BEND (DOUBLE SOCKET)	13
104.4.92	Branch (all socket) - 92½	13
104.4.135	BRANCH (ALL SOCKET) - 135	13
105.4.92	ACCESS BRANCH	13
107.4.135	SPIGOT BEND	13
107.4.92	SPIGOT BEND (LONG TAIL)	14
110.4	STRAIGHT COUPLER	14
111.4	EXPANSION COUPLER	14
138.4	ACCESS PIPE	15
139.4	ACCESS PIPE	15
143.3	ONE-PIECE DOWNPIPE BRACKET	12
143.4	ONE-PIECE DOWNPIPE BRACKET	15
2100.25.30	68MM DOWNPIPE 3.0M	8
2100.25.40	68MM DOWNPIPE 4.0M	8
2100.25.55	68MM DOWNPIPE 5.0M	8
2100.3.40	82MM DOWNPIPE - 4.0M	11
2101.25.112	LONG RADIUS BEND	8
2101.3.92	SWEPT BEND - 921/2	11
2101.3.112	SWEPT BEND - 1121/2	11
2101.3.135	SWEPT BEND - 135	11
2107.25	STRAIGHT COUPLER	8
2107.3	STRAIGHT COUPLER (DOUBLE SOCKET)	11
2108.25.92	SHORT BEND - 921/2	8
2108.25.112	SHORT BEND - 1121/2	8
2109.25.92	BRANCH - 90	8
2109.25.112	BRANCH - 1121/2	8
2109.3.92	BRANCH (ALL SOCKET) - 92½	11
2109.3.112	BRANCH (ALL SOCKET) - 1121/2	11
2110.3	SHOE	11
2110.4	SHOE	14
2111.25	RAINWATER HEAD	9
2111.3	RAINWATER HEAD	12
2112.25.T	PIPE AND FITTING BRACKET (ADJUSTABLE)	9
2112.25.D	PIPE AND FITTING BRACKET (DRIVE-IN)	9
2113.25	PIPE FITTING CLIP	9
2113.25C	CENTRAL FIXING CLIP	9
2116.25	PIPE FITTING BRACKET	10
2137.25	ACCESS PIPE	10
2137.3	ACCESS PIPE	12
2150.4.40	CRESCENT GUTTER - 4.0M	20
2151.4	JOINT BRACKET	20
2152.4	SUPPORTING BRACKET	20
2153.4.25	RUNNING OUTLET	20
2154.4.90	GUTTER ANGLE - 90	20

CODE	DESCRIPTION	PAGE NO.
2154.4.120	GUTTER ANGLE - 120	20
2154.4.135	GUTTER ANGLE - 135	20
2154.4.156	GUTTER ANGLE - 156	20
2155.4	SHORT STOP-END	21
2156.4	INTERNAL STOP-END	21
2157.4.25	STOP END OUTLET	21
2158.4.45	CRESCENT TO 4½" CAST IRON SPIGOT	21
2159.4.45	CRESCENT TO 4½" CAST IRON SOCKET	21
2160	SIDE RAFTER BRACKET (ADJUSTABLE)	31
2161	TOP RAFTER BRACKET (ADJUSTABLE)	31
2162	RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET	31
2166	SPACER BLOCK (STRAIGHT)	32
2166.22	SPACER BLOCK (TAPERED)	32
2167	ADAPTOR TO OTHER PVC-U GUTTERS	21
2167	ADAPTOR TO OTHER PVC-U GUTTERS	32
2168.4.45	CRESCENT TO 4½" OGEE CAST IRON SPIGOT	22
2169.4.45	CRESCENT TO 4½" OGEE CAST IRON SOCKET	22
2170.3	FLAT ROOF OUTLET (LARGE)	5
2170.4	FLAT ROOF OUTLET (LARGE)	5
2171.3	DOMED ROOF OUTLET (LARGE	5
2171.4	DOMED ROOF OUTLET (LARGE	5
2172.3	BALCONY OUTLET	6
2173.3.25	SOCKET ADAPTOR (82MM X 68MM)	6
2174.4A	INVERTED ROOF OUTLET	5
2174.44	INVERTED ROOF OUTLET	5
2174.3	BALCONY OUTLET	6
2180.2	FLAT ROOF OUTLET (SMALL DIAMETER)	5
2180.3	FLAT ROOF OUTLET (SMALL DIAMETER)	5
2181.2	DOMED ROOF OUTLET (SMALL DIAMETER)	5
2181.3	DOMED ROOF OUTLET (SMALL DIAMETER)	5
2200.23.30	DOWNPIPE - 3.0M	16
2200.23.40	DOWNPIPE - 4.0M	16
2200.23.55	DOWNPIPE - 5.0M	16
2207.23	STRAIGHT CONNECTOR	16
2208.23.92	BEND - 921/2	16
2208.23.112	BEND - 1121/2	16
2209.23.112	BRANCH	16
2210.23	SHOE	16
2211.23	RAINWATER HEAD	17
2212.23	PIPE AND FITTING BRACKET (ADJUSTABLE)	17
2213.23	PIPE AND FITTING BRACKET (ADJUSTABLE)	17
2214.23	WALL OFFSET	17
2215.23.25	ADAPTOR (SQUARE TO ROUND)	17
2216.23	LONG STAND-OFF DOWNPIPE BRACKET	17
2237.23	ACCESS PIPE	16
2250.5.40	CORNICHE GUTTER - 4M	23
2251.5	JOINT BRACKET	23
2252.5	SUPPORT BRACKET	23

2253.5.23 RUNNING OUTLET 23 2254.5.90 GUTTER ANGLE - 90 24 2254.5.120 GUTTER ANGLE - 120 24 2254.5.135 GUTTER ANGLE - 135 24 2255.5 SHORT STOP-END 24 2255.5 SHORT STOP-END OUTLET 24 2265 SUPPORT STRAP (ALL SYSTEMS) 31 2203.3.3 DOWNPIPE - 4.0M 18 2300.33.40 DOWNPIPE - 4.0M 18 2307.33 STRAIGHT CONNECTOR 18 2309.33.112 BEND 18 2300.33.40 DOWNPIPE - 4.0M 18 2307.33 STRAIGHT CONNECTOR 18 2309.33.112 BEND 18 2300.33.34 DOWNPIPE - 4.0M 18 2311.33 SHOE 19 2313.33 PIPE AND HITTING BRACKET 19 2314.23 WALL OFFSET 19 2315.34.23 ADAPTOR (SQUARE TO SQUARE) 19 2357.6.40 STREAMLINE GUTTER - 4.0M 25 2350.6.40 STREAM	CODE	DESCRIPTION	PAGE NO.
2254.5.120 GUTTER ANGLE - 120 24 2254.5.135 GUTTER ANGLE - 135 24 2255.5 SHORT STOP-END 24 2257.5.23 STOP-END OUTLET 24 2265 SUPPORT STRAP (ALL SYSTEMS) 31 2273.3.25 SOCKET ADAPTOR (82MM X 62MM) 6 2300.33.40 DOWNPIPE - 4.0M 18 2307.33 STRAIGHT CONNECTOR 18 2308.33.112 BEND 18 2309.33.112 BRANCH 18 2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2313.33 ADAPTOR (SQUARE TO SQUARE) 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2357.6.3 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.6.3 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 <td< td=""><td>2253.5.23</td><td>RUNNING OUTLET</td><td>23</td></td<>	2253.5.23	RUNNING OUTLET	23
2254.5.135 GUTTER ANGLE - 135 24 2255.5 SHORT STOP-END 24 2257.5.23 STOP-END OUTLET 24 2265 SUPPORT STRAP (ALL SYSTEMS) 31 2273.3.25 SOCKET ADAPTOR (82MM X 62MM) 6 2300.33.40 DOWNPIPE - 4.0M 18 2307.33 STRAIGHT CONNECTOR 18 2309.33.112 BEND 18 2309.33.112 BRANCH 18 2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2311.33 RAINWATER HEAD 19 2314.23 WALL OFFSET 19 2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2353.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2353.6.3 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING O	2254.5.90	GUTTER ANGLE - 90	24
2255.5 SHORT STOP-END 24 2257.5.23 STOP-END OUTLET 24 2265 SUPPORT STRAP (ALL SYSTEMS) 31 2273.3.25 SOCKET ADAPTOR (82MM X 62MM) 6 2300.33.40 DOWNPIPE - 4.0M 18 2307.33 STRAIGHT CONNECTOR 18 2308.33.112 BEND 18 2309.33.112 BRANCH 18 2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2351.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUINING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.4 RUINING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.5 GUTTER ANGLE - 90 26 <	2254.5.120	GUTTER ANGLE - 120	24
2257.5.23 STOP-END OUTLET 24 2265 SUPPORT STRAP (ALL SYSTEMS) 31 2273.3.25 SOCKET ADAPTOR (82MM X 62MM) 6 2300.33.40 DOWNPIPE - 4.0M 18 2307.33 STRAIGHT CONNECTOR 18 2308.33.112 BEND 18 2309.33.112 BRANCH 18 2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2357.33 ACCESS PIPE 19 2357.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2353.6.3 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2354.6.9.0 GUTTER ANGLE - 135 26 2357.6.33WLH STREAMLINE STOP END OUTLET RIGHT	2254.5.135	GUTTER ANGLE - 135	24
2265 SUPPORT STRAP (ALL SYSTEMS) 31 2273.3.25 SOCKET ADAPTOR (82MM X 62MM) 6 2300.33.40 DOWNPIPE - 4.0M 18 2307.33 STRAIGHT CONNECTOR 18 2308.33.112 BEND 18 2309.33.112 BRANCH 18 2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2357.33 ACCESS PIPE 19 2357.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.6 SUPPORT BRACKET 25 2353.6.3 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.9.0 GUTTER ANGLE - 135 26	2255.5	SHORT STOP-END	24
2273.3.25 SOCKET ADAPTOR (82MM X 62MM) 6 2300.33.40 DOWNPIPE - 4.0M 18 2307.33 STRAIGHT CONNECTOR 18 2308.33.112 BEND 18 2309.33.112 BRANCH 18 2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2337.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUITER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.6 SUPPORT BRACKET 25 2353.6.3 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.135 GUTTER ANGLE - 90 26 2355.6 SHORT STOP-END 26	2257.5.23	STOP-END OUTLET	24
2300.33.40 DOWNPIPE - 4.0M 18 2307.33 STRAIGHT CONNECTOR 18 2308.33.112 BEND 18 2309.33.112 BRANCH 18 2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2337.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUITER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.6.5 SUPPORT BRACKET 25 2353.6.3 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET RIGHT HAND 26 <td>2265</td> <td>SUPPORT STRAP (ALL SYSTEMS)</td> <td>31</td>	2265	SUPPORT STRAP (ALL SYSTEMS)	31
2307.33 STRAIGHT CONNECTOR 18 2308.33.112 BEND 18 2309.33.112 BRANCH 18 2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2357.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2352.6.3 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.135 GUTTER ANGLE - 135 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAN	2273.3.25	SOCKET ADAPTOR (82MM X 62MM)	6
2308.33.112 BEND 18 2309.33.112 BRANCH 18 2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2357.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360	2300.33.40	DOWNPIPE - 4.0M	18
2309.33.112 BRANCH 18 2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2337.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) 31 2363 SCREWED OUTLET ADAPTOR 26 2450.5.40 <td>2307.33</td> <td>STRAIGHT CONNECTOR</td> <td>18</td>	2307.33	STRAIGHT CONNECTOR	18
2310.33 SHOE 19 2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2357.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 25MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WRH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) 31	2308.33.112	BEND	18
2311.33 RAINWATER HEAD 19 2313.33 PIPE AND FITTING BRACKET 19 2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2337.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 <td>2309.33.112</td> <td>BRANCH</td> <td>18</td>	2309.33.112	BRANCH	18
2313.33 PIPE AND FITTING BRACKET 19 2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2337.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WLH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) 31 2363.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTET - 4.0M 27 <td>2310.33</td> <td>SHOE</td> <td>19</td>	2310.33	SHOE	19
2314.23 WALL OFFSET 19 2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2337.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WLH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET	2311.33	RAINWATER HEAD	19
2315.33.23 ADAPTOR (SQUARE TO SQUARE) 19 2337.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) 31 2363.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE </td <td>2313.33</td> <td>PIPE AND FITTING BRACKET</td> <td>19</td>	2313.33	PIPE AND FITTING BRACKET	19
2337.33 ACCESS PIPE 19 2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2350 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) DRIVE IN 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET <	2314.23	WALL OFFSET	19
2350.6.40 STREAMLINE GUTTER - 4.0M 25 2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) 31 2363.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 135	2315.33.23	ADAPTOR (SQUARE TO SQUARE)	19
2351.6.12 JOINT BRACKET 25 2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) 31 2363 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.135 GUTTER ANGLE -	2337.33	ACCESS PIPE	19
2352.6 SUPPORT BRACKET 25 2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.3 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE	2350.6.40	STREAMLINE GUTTER - 4.0M	25
2352.15 OVERSLUNG BRACKET 25 2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 135 27 2454.5.135 GUTTE	2351.6.12	JOINT BRACKET	25
2353.6.33 RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE 25 2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 135 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT	2352.6	SUPPORT BRACKET	25
2353.6.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 25 2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) 31 2363 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND	2352.15	OVERSLUNG BRACKET	25
2353.6.4 RUNNING OUTLET - TO 110MM ROUND DOWNPIPE 25 2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2457.5.25 SHORT STOP-END - 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHE	2353.6.33	RUNNING OUTLET - TO 75MM SQUARE DOWNPIPE	25
2354.6.90 GUTTER ANGLE - 90 26 2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2457.5.25 SHORT STOP-END - 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER P	2353.6.3	RUNNING OUTLET - TO 82MM ROUND DOWNPIPE	25
2354.6.135 GUTTER ANGLE - 135 26 2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP	2353.6.4	RUNNING OUTLET - TO 110MM ROUND DOWNPIPE	25
2355.6 SHORT STOP-END 26 2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40	2354.6.90	GUTTER ANGLE - 90	26
2357.6.33WLH STREAMLINE STOP END OUTLET LEFT HAND 26 2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2457.5.2 SHORT STOP-END - 28 2457.5.2 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2354.6.135	GUTTER ANGLE - 135	26
2357.6.33WRH STREAMLINE STOP END OUTLET RIGHT HAND 26 2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2355.6	SHORT STOP-END	26
2360 SIDE RAFTER BRACKET (ADJUSTABLE) 31 2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2357.6.33WLH	STREAMLINE STOP END OUTLET LEFT HAND	26
2361 TOP RAFTER BRACKET (ADJUSTABLE) 31 2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 31 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2357.6.33WRH	STREAMLINE STOP END OUTLET RIGHT HAND	26
2362 RISE AND FALL BRACKET (ADJUSTABLE) DRIVE IN BRACKET 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2360	SIDE RAFTER BRACKET (ADJUSTABLE)	31
2362 BRACKET 2368.3 SCREWED OUTLET ADAPTOR 26 2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2361	TOP RAFTER BRACKET (ADJUSTABLE)	31
2450.5.40 RAPIDFLOW GUTTER - 4.0M 27 2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2362		31
2451.5 JOINT BRACKET 27 2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2368.3	SCREWED OUTLET ADAPTOR	26
2452.5 SUPPORT BRACKET 27 2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2450.5.40	RAPIDFLOW GUTTER - 4.0M	27
2453.5.25 RUNNING OUTLET - TO 68MM ROUND DOWNPIPE 27 2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2451.5	JOINT BRACKET	27
2453.5.3 RUNNING OUTLET - TO 82MM ROUND DOWNPIPE 27 2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2452.5	SUPPORT BRACKET	27
2454.5.90 GUTTER ANGLE - 90 27 2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2453.5.25	RUNNING OUTLET - TO 68MM ROUND DOWNPIPE	27
2454.5.135 GUTTER ANGLE - 135 27 2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2453.5.3	RUNNING OUTLET - TO 82MM ROUND DOWNPIPE	27
2455.5 SHORT STOP-END - 28 2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2454.5.90	GUTTER ANGLE - 90	27
2457.5.25 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2454.5.135	GUTTER ANGLE - 135	27
2457.5.3 STOP-END OUTLET - 82MM ROUND DOWNPIPE 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2455.5	SHORT STOP-END -	28
2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 28 2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2457.5.25	STOP-END OUTLET - 82MM ROUND DOWNPIPE	28
2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2457.5.3	STOP-END OUTLET - 82MM ROUND DOWNPIPE	28
2467 ADAPTOR CLIP TO OTHER PVC-U GUTTERS 33 2550.5.40 OMEGA GUTTER - 4.0M 29	2467	ADAPTOR CLIP TO OTHER PVC-U GUTTERS	28
2550.5.40 OMEGA GUTTER - 4.0M 29			
			29

CODE	DESCRIPTION	PAGE I
2552.5C	UNDERSLUNG SUPPORT BRACKET	29
2552.5	UNDERSLUNG SUPPORT BRACKET	29
2552.5.150	OVERSLUNG SUPPORT BRACKET	29
2553.5.25	RUNNING OUTLET	29
2554.5.901	INTERNAL GUTTER ANGLE - 90	30
2554.5.1351	INTERNAL GUTTER ANGLE - 135	30
2554.5.90E	EXTERNAL GUTTER ANGLE - 90	30
2554.5.135E	EXTERNAL GUTTER ANGLE - 135	30
2555.5L	SHORT STOP-END (EXTERNAL) - LEFT	30
2555.5R	SHORT STOP-END (EXTERNAL) - RIGHT	30
2556.5L	INTERNAL STOP-END - LEFT	30
2556.5R	INTERNAL STOP-END - RIGHT	30
2557.5.25L	STOP-END OUTLET - LEFT	30
2557.5.25R	STOP-END OUTLET - RIGHT	30
9100.125	LIQUID WELD - 125ML	34
9100.250	LIQUID WELD - 250ML	34
9100.500	LIQUID WELD - 500ML	34
9101.125	SOLVENT CLEANING FLUID - 125ML	34
9101.250	SOLVENT CLEANING FLUID - 250ML	34
9136.250	TERRAIN SILICONE LUBRICANT	34
9136.500	TERRAIN SOLUBLE LUBRICANT	34
9911	GUTTER SEAL - FOR 2100 CRESCENT	32
9915.25	GUTTER OUTLET GUARD	32
9922	GUTTER SEAL - FOR 2200 CORNICHE	32
9933	GUTTER SEAL - FOR 2300 STREAMLINE AND 2500 OMEGA	32
9944	GUTTER SEAL - FOR 2400 RAPIDFLOW	32
9980	SPARE GRID FOR DOMED ROOF OUTLET -FOR 2171	7
9981	SPARE GRID FOR FLAT ROOF OUTLET -FOR 2170	7
9990	SPARE GRID FOR BALCONY OUTLET -FOR 2172	7
9995.3	CAP FOR BALCONY OUTLET	7
3DW25	ADAPTOR TO UNDERGROUND DRAIN	33
4D76	UNIVERSAL RAINWATER ADAPTOR	34
4DW23	ADAPTOR TO UNDERGROUND DRAIN	33
4DW25	ADAPTOR TO UNDERGROUND DRAIN	33
4DW3	ADAPTOR TO UNDERGROUND DRAIN	33
4DW33	PIPE ADAPTOR 4" X 3" / 75MM SQ	33
S2308.33.92	3X3"SQ S/LINE BEND	18
S2309.33.92	3X3"SQ S/LINE BRANCH	18

Notes







Terrain Rainwater

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