

IPLEX RAINWATER™
INSTALLATION & QUANTITY GUIDE



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BEFORE YOU START

THIS GUIDE

This installation and quantity take off guide provides simple and helpful step-by-step instructions for installing your new Iplex Rainwater™ System. The guide covers spouting & downpipe installation, maintenance and how to easily remove & repair sections if required.

TOOLS I WILL NEED

- Fine tooth PVC saw (or hack saw)
- Stringline (or chalkline)
- Measuring tape
- Ruler
- Pencil
- Builders square
- Builders level
- Battery drill
- 150mm length, square drive, driver bit (magnetic if possible)

SAFETY EQUIPMENT I WILL NEED

- Ladder, trestle & planks, and / or scaffolding
- Gloves for cutting

MATERIALS I WILL NEED

- Spouting
- Fittings
- Lubricant
- Downpipes
- Downpipe Solvent Cement (if required)
- Screws (40x 8g corrosion resistant square drive, self tapping screws)
- For metal fascia – use either metal screw fasteners or pop rivets that are compatible with the fascia material.

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SPOUTING INSTALLATION INSTRUCTIONS

CONSIDERATIONS

On the fascia board, brackets can be installed anywhere along the fascia, at max 1.0m centres. On exposed rafters, brackets must be installed on the end of each exposed rafter. Running outlets or union brackets must be fixed on the end of the exposed rafter, or on solid support timber installed between the rafter ends.

NB. Iplex® recommends completing all cleaning or painting of the fascia or rafters before installing the spouting system.

1 / Low points

Begin by identifying the spouting low points. These will be the positions of the downpipe outlets. On existing buildings, the low points may be easily identified by observing the location of existing downpipes and stormwater outlets or connections.



2 / High points

Next, identify the high points. If possible, the high points should be located at the corners of the building. When a long run of spouting is required, Iplex® recommends setting the high point approximately halfway between the low points.



3 / String line or chalkline

Next, position and fix a fascia bracket near the high point, as high as possible under the roof overhang. Fix another fascia bracket near the low point and run a stringline between these fascia brackets. Iplex® recommends a fall of 1:500, (ie 2mm of fall per lineal metre of spouting) The absolute minimum fall is 1:2000 (ie 5mm per 10 lineal metres of gutter run). Ensure the stringline or chalkline remains tight and in position until all the fascia brackets have been fixed.



4 / Measure and mark

Measure and mark the fascia bracket positions along the fascia, at maximum 1.0 metre centres* starting from the high point fascia bracket.

* Note: In areas susceptible to high snow fall, reduced fascia bracket spacing of 0.5 metres is recommended.



5 / Install fascia brackets first

Fix the fascia brackets to the fascia, carefully aligned to the stringline or chalkline at the marked bracket spacing positions. Use three self-tapping screws for each bracket. Leave space for union brackets or running outlets in place of fascia brackets where necessary.

Do not install the union bracket at this time.



NB. Corrosion resistant screws must be used, such as stainless steel or epoxy coated, suitable for treated timber.

Iplex® recommends 40x8g length corrosion resistant square drive, self-tapping screws, installed with a 150mm length, self magnetic driver bit, for attaching the brackets. For metal fascia, use either screw fasteners or pop rivets that are compatible with the fascia material.

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SPOUTING INSTALLATION INSTRUCTIONS

6 / Cut spouting

If a special length of spouting is needed, measure and mark the spouting length and cut accurately square with a fine-tooth saw. (eg hacksaw) Carefully remove all burrs from the cut edge to prevent damage the rubber seal.

NB. Iplex® recommends supporting the spouting, during cutting using a mitre box or internal supporting block to help achieve a square cut.



7 / Assemble spouting

Where possible, pre-assemble end fittings, such as stop ends, union brackets or running outlets, onto a spouting length before placing it up into the fascia brackets.

Ensure both spouting ends are positioned at the 'insert to here' line moulded inside each fitting, which allows for thermal expansion or contraction of the spouting in service.

(Apply RWL joint lubricant sparingly as a light smear to each seal gasket before jointing)



8 / Clip in the spouting back edge

Lift the spouting assembly up and roll it into the fascia brackets by the back edge first. Check the end position of the spouting to ensure it is correctly placed along the fascia board, then firmly engage the back edge of the spouting (the side nearest the fascia board) up under the retaining clip on each fascia bracket.



9 / Clip in the front edge

Apply firm downward pressure to the spouting front edge (the side nearest to the installer). Click the retaining clip over the top front edge of the spouting using both thumbs.



10 / Connect the next length

Repeat this assembly method with the next lengths of spouting in the run. Before completion, ensure every fixing hole has the correct fixings installed.

Ensure both spouting ends are positioned at the 'insert to here' line.



FINAL CONSIDERATIONS

Union Brackets –After the spouting is fitted into the fascia brackets, fix each union bracket to the fascia with a single self-tapping screw.

Running Outlets –After the spouting is fitted into the fascia brackets, fix each running outlet to the fascia with two self-tapping screws.

Corners – For **Iplex Square™** and **Iplex Polyflow™** profiles, Corners are bi-positional, so the same fitting is used in either the internal or external position. These corners are supported by the spouting itself and by a fascia bracket fixed adjacent to both side of the corner. No screws are used on these corners.

Stop Ends –**Iplex Square™** and **Iplex Polyflow™** stop ends are bi-positional so the same fitting is used in either the left-hand (LH) or right-hand (RH) position.

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DOWNPIPE INSTALLATION INSTRUCTIONS

For the **Iplex Square™** profile, use the square to round pipe adaptor to connect the outlet to the downpipe. **Iplex Polyflow™** outlets connect directly into the downpipe. Iplex recommend all downpipes are fixed to the outlet with either 2 small corrosion resistant screws or with Iplex PVC downpipe solvent cement. This will prevent any dropping of downpipes due to water flow or thermal expansion.



2 / Offsets

An offset is often required below the running or short end outlet to align with the building wall. Cut and dry assemble the downpipe and bends working from a top down sequence. Make allowance for the socket depth when cutting the downpipe to length (**apply a pencil mark to show the final insertion depth and alignment**). Also make allowance for the downpipe to be spaced off the wall by the downpipe support bracket.



Support the offset by installing a pipe bracket directly below the lower offset bend.

3 / Join downpipe & fittings

When the downpipe assembly is sitting in the correct position, Use Iplex® PVC solvent cement to join all the downpipe and fittings together, carefully noting the pencil marks.



4 / Downpipe support clips

Fit support clips on vertical downpipes with a maximum spacing of 2.5m between clips. Mark the support clip positions with a builders' level. Use 2 corrosion resistant self-tapping screws on each clip.

NB. On graded downpipes (where a downpipe runs horizontally along a wall), fit support clips no more than 1.2m apart.



5 / Connect to stormwater pipe

Iplex® 65mm downpipe may be connected with solvent cement joints to underground 90mm or 100mm Iplex® PVC stormwater pipe, using Iplex® downpipe adaptors.



Note: Iplex® recommend the installation of a PVC DWV access junction with sealed removable access cap, - positioned near to ground level, in "charged" inverted syphon pipes connected to rainwater tanks, to aid periodic flushing of the charged pipe.



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MAINTENANCE INSTRUCTIONS

The external brackets used in all of Iplex Rainwater™ systems allow for easier cleaning of debris. Some cleaning options are shown below.

1 / Avoid damage

Avoid placing a ladder directly against the spouting, as this can be both a safety hazard and can damage the spouting and brackets.



2 / Clear debris

Regularly check and clear debris from the inside of your spouting and downpipes. Iplex® recommend **working safely from the ground**, using a gutter broom or power blower with a spouting cleaning attachment.



3 / Clean Annually

Iplex® recommends washing the Iplex Rainwater™ System annually, using a soft bristled brush or garden hose. Iplex® recommends working safely from the ground while undertaking cleaning.



REPAIR INSTRUCTIONS

1 / Unclip & Remove

Unclip and remove the damaged spouting section and replace any damaged support brackets.



2 / Measure and mark

Measure the length of replacement spouting required. This will be the distance between the "insert to here" lines marked inside the fittings at each end of the replacement spouting section. If the replacement section is less than a full gutter length, accurately and squarely cut a replacement section to the correct length.



3 / Fit the spouting section

Fit the replacement spouting section into the fascia brackets or union brackets and clip into place. Ensure both spouting ends are positioned at the 'insert to here' line moulded inside each fitting, which allows for thermal expansion or contraction of the spouting in service.



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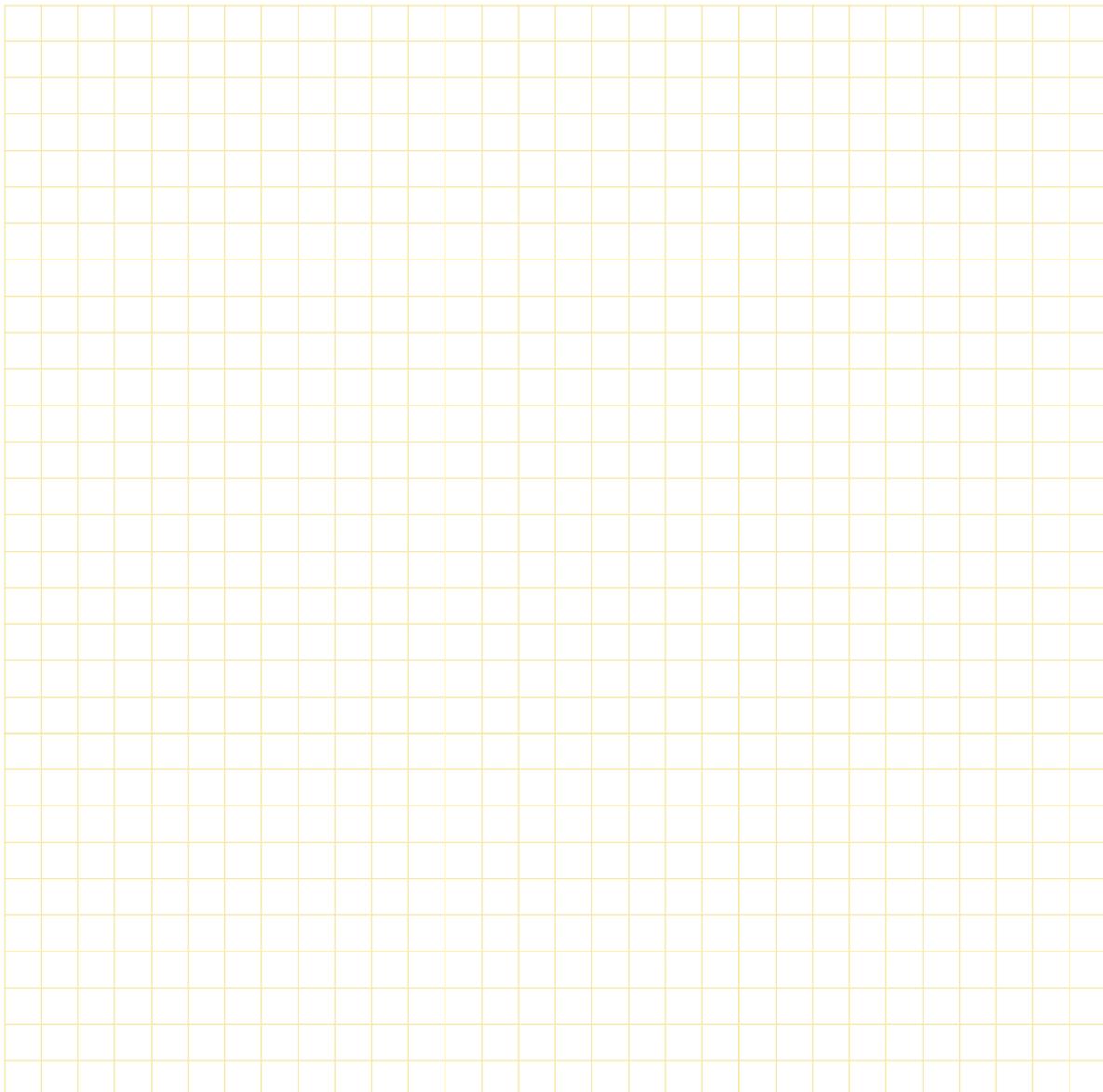
MY BUILDING QUANTITY SHEET

HOW TO USE THIS SHEET

1. Draw your building on the grid below including the outside fascia measurements.
2. Next; mark the spouting lengths on the building below. (refer to the back of this sheet for the lengths of each profile)
3. Next; mark the fittings & downpipes required on your building below.

HOW TO WORK OUT DOWNPIPE LOCATIONS

1. Existing Downpipes - use the locations already on your building, or
2. Easy Guide - 1x downpipe for every 60m² of roof area. (for a roof up to 25deg pitch)
3. For more detailed or specific designs, & designs requiring building consent, refer to the **Iplex Rainwater – Specification & Installation Guide** at iplex.co.nz



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MY BUILDING QUANTITY SHEET

IPLEX SQUARE™ RUBBER RING JOINT (RRJ)

	White Order Code	Description	Order Quantity
	RS200W	Iplex Square™ Spouting 2m	
	RS201W	Iplex Square™ Spouting 4m	
	RS202W	Iplex Square™ Union Bracket	
	RS203W	Iplex Square™ Corner 90°	
	RS204W	Iplex Square™ Corner 135°	
	RS215W	Iplex Square™ Corner 150°	
	RS205W	Iplex Square™ Running Outlet	
	RS206W	Iplex Square™ Short Stop End Outlet	
	RS207W	Iplex Square™ External Stop End	
	RS208W	Iplex Square™ Internal Stop End	
	RS209W	Iplex Square™ Fascia Bracket	
	RS231W	Iplex Square™ to 65mm Round Downpipe Adaptor	
	RWL30	Iplex® Spouting Lubricant	

IPLEX POLYFLOW™ RUBBER RING JOINT (RRJ)

	White Order Code	Description	Order Quantity
	RD500W	Iplex Polyflow™ Spouting 3m	
	RD501W	Iplex Polyflow™ Spouting 4m	
	RD502W	Iplex Polyflow™ Union Bracket	
	RD503W	Iplex Polyflow™ Corner 90°	
	RD504W	Iplex Polyflow™ Corner 135°	
	RD505W	Iplex Polyflow™ Running Outlet	
	RD507W	Iplex Polyflow™ External Stop End	
	RD508W	Iplex Polyflow™ Internal Stop End	
	RD509W	Iplex Polyflow™ Fascia Bracket	
	RWL30	Iplex® Spouting Lubricant	

IPLEX® DOWNPIPE SOLVENT CEMENT JOINT (SCJ)

	Order Code	Description	Size (mm)	Ctn/Bag Qty	Order Quantity
	RP65.3SOE	downpipe	65 x 3m	192 / 12*	
	RP80.3SOE	downpipe	80 x 3m	135 / 9**	
	700SN4.90.6 SOE	downpipe	90 x 6m	81	
*Available in bundles of 12 **Available in bundles of 9					
	RWB.65.95	socket bend	65 x 95°	15	
	RWB.80.95	socket bend	80 x 95°	15	
	RWB.65.112	socket bend	65 x 112°	15	
	RWB.80.112	socket bend	80 x 112°	10	
	RWJ.65.95	junction	65 x 95°	15	
	RWJ.80.95	junction	80 x 95°	10	
	DPC.65	pipe clips	65	80	
	DPC.80	pipe clips	80	80/10	
	DPA.65.90	downpipe adaptor	65 x 90	75	
	DPA.80.90	downpipe adaptor	80 x 90	65	
	RWSOC.65	downpipe sockets	65	55	
	RWSOC.80	downpipe sockets	80	35	
	GP.80	gutter pop	80	130	
	DSC150W	Downpipe Solvent Cement	150ml		



Technical Information & How To Videos

Scan this QR code for further technical information on Iplex Rainwater™ Systems and to view the How to Videos.