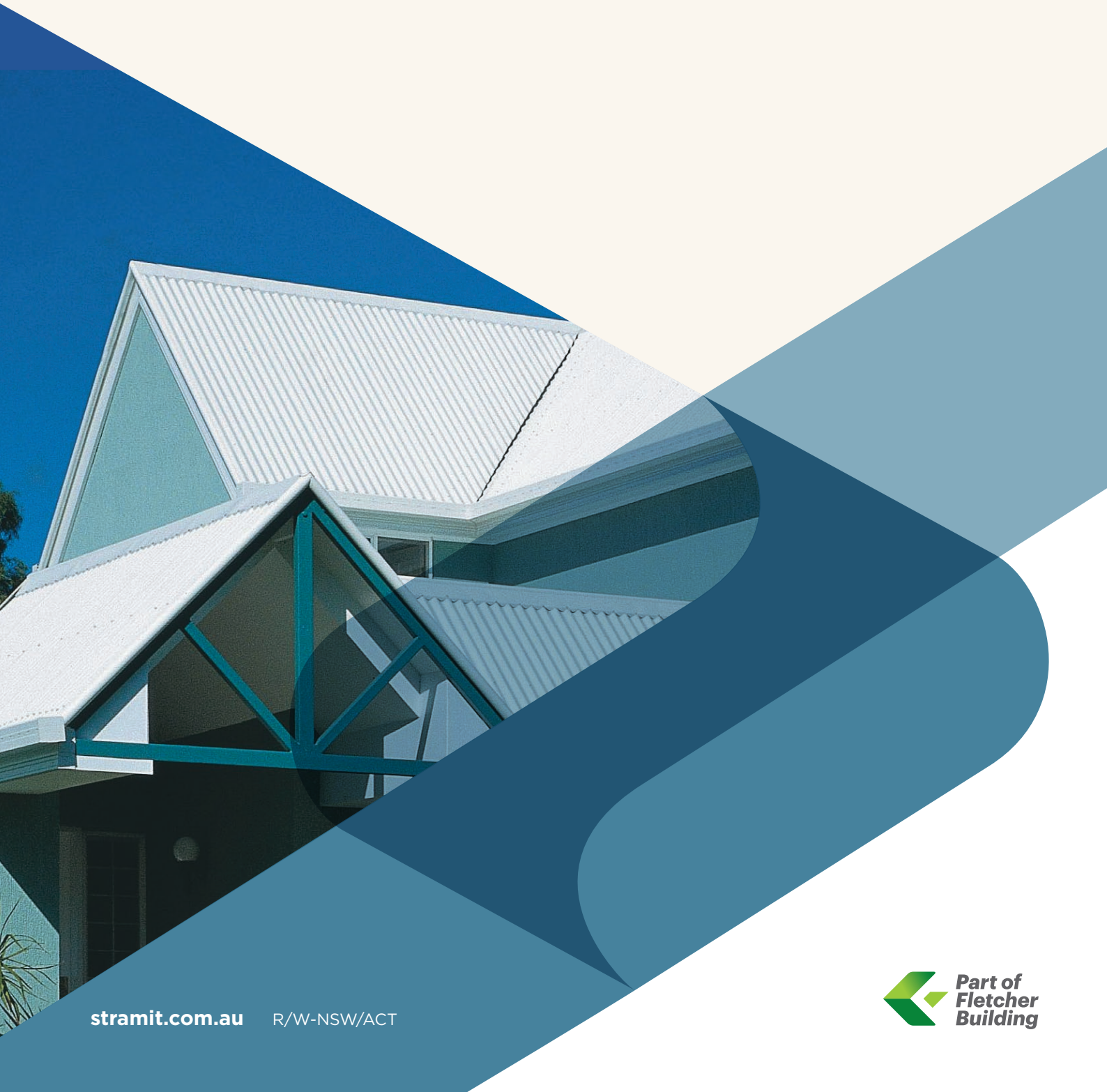
Stramit
CONSIDER IT DONE

STRAMIT® RAINWATER PRODUCTS

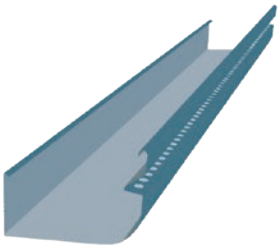
NEW SOUTH WALES

Product Technical Manual

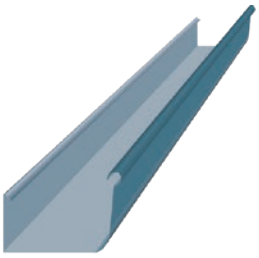


Part of Fletcher Building

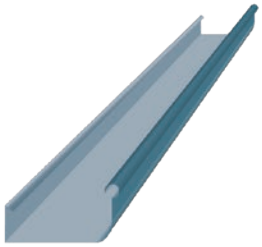
STRAMIT® RAINWATER PRODUCTS



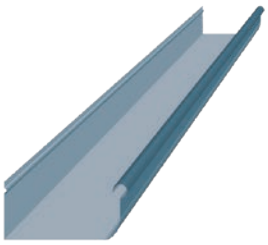
Stramit InfinitiLine® Quad Gutter



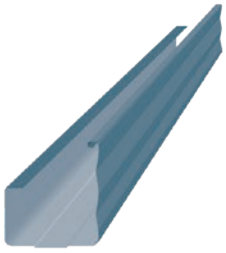
Stramit® Hi Front Quad Gutter



Stramit® Quad 115 Gutter

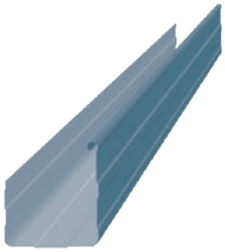


Stramit® Quad 125 Gutter

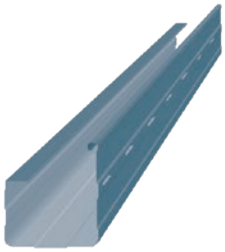


Stramit Triline® SB Gutter

Stramit Triline® HB Gutter



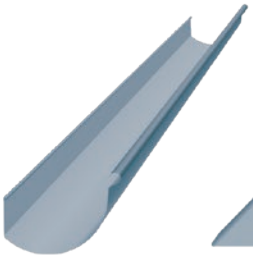
Stramit® M Pattern Gutter



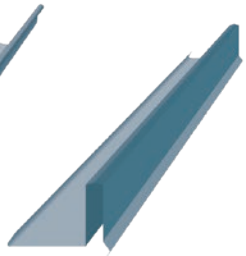
Stramit® S Pattern Gutter

Stramit® Half Round Gutter 200

Stramit® Half Round Gutter 150



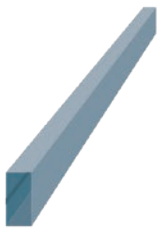
Stramit® Flatback Gutter 150



Stramit® Barge Gutter

Stramit® Fascia

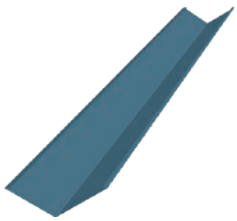
Stramit® Downpipes Round



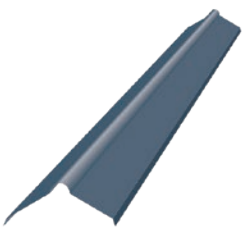
Stramit® Downpipes Rectangular

Stramit® Three Break Ridge

Stramit® Edge Roll



Stramit® Valley



Stramit® Roll Top Ridge

IMPORTANT NOTICE AND DISCLAIMER

SELECTION & SPECIFICATION

GENERAL FEATURES

- Extensive range – quality rainwater products.
- Both COLORBOND® steel and zinc/aluminium or aluminium/zinc/magnesium coating finishes available.
- A comprehensive range of accessories available.
- Comprehensive design data provided.
- Installation and overflow provision information provided.
- Hi-tensile fascias and gutters.

APPLICATIONS

Stramit® rollformed rainwater products are designed for installation on residential and light commercial applications, with a comprehensive range of COLORBOND® steel colours to choose from. All products have a wide range of matching accessories.

Stramit® Fascia has a clean yet classic style ideal for all types of home. Stramit InfinitiLine® Quad Gutter has an attractive sleek look with hidden slots and a high front to cover the roof line. Stramit® Quad 115 Gutters are traditional NSW patterns for modest sized applications whilst Stramit® Hi Front Quad has a little more drainage capacity and a popular style. Stramit® M Pattern Gutter has a larger drainage capacity and is ideal for larger homes and commercial applications and Stramit® S Pattern Gutter is designed for shallow metal-roofed applications that have no fascia. The Stramit Triline® Gutter was designed for the home improvement market and is suitable for fascia or patio applications.

Stramit® Half-round and Flatback Gutters have large stormwater capacity and are ideal for traditional and contemporary designed buildings.

The extensive range of Stramit® Downpipes provides for the full range of domestic, commercial and most industrial applications. Smaller sizes are available in COLORBOND® steel colours. The full complement of Stramit® Rainwater Products is completed with valley gutter, ridge capping, edge roll, cappings and flashings.

For larger commercial and industrial applications folded Stramit® Custom Flashings are available to suit any box gutter or eave gutter design.

Stramit® Rainwater Products are only intended for use in commercial/industrial/residential rainwater applications. Do not use for any other purpose.

AVAILABILITY

All of the Stramit® Rainwater Products listed in this manual are available in NSW & ACT. However, items available cut-to-length or from stock vary at each Stramit location. Please check with your nearest Stramit office or the Stramit NSW Product & Service Guide for a schedule of availability.

MATERIALS

Stramit® Rainwater Products are manufactured from G550 and G300 zinc/aluminium or aluminium/zinc/magnesium coated steel (AZ150/AM125/AM100) or galvanized (Z275) in accordance with AS1397, and COLORBOND® steel with a coating conforming to AS/NZS 2728. Other coatings, grades and materials may be available, subject to enquiry. The mass and steel grade for the primary Stramit® Rainwater Products are shown below:

STRAMIT® RAINWATER PRODUCTS – MATERIALS & MASS

		Mass (kg/m)	
	Steel Grade	Zinc Aluminium	COLORBOND®
Stramit® Fascia	G550	0.97	0.98
Stramit InfinitiLine® Quad Gutter	G550	0.97	0.98
Stramit® Quad 115 Gutter	G550	0.87	0.88
Stramit® Hi-Front Quad Gutter	G550	0.97	0.98
Stramit® M Pattern Gutter	G550	1.27	1.28
Stramit® S Pattern Gutter	G550	1.33	1.34
Stramit Triline® SB Gutter	G550	1.33	1.34
Stramit Triline® HB Gutter	G550	1.27	1.27
Stramit® Roll Top Ridge	G300	1.66	1.67
Stramit® Three Break Ridge	G300	various	
Stramit® Valley	G550	1.56	1.57
Stramit® Downpipes	G300	various	
Stramit® Barge Gutter	G550	1.07	1.08
Stramit® Half Round 150	G550	1.03	1.04
Stramit® Half Round 200	G550	1.33	1.34
Stramit® Flatback 150	G550	1.03	1.04

ADVERSE CONDITIONS

Stramit® Rainwater Products coated with zinc/aluminium or aluminium/zinc/magnesium alloy and COLORBOND® steel will give excellent durability in almost all locations more than 200m from a marine environment or in some light industrial applications. For installations closer to the coastline, please contact Stramit for advice.

Applications close to industrial or unusually corrosive environments will need to be individually assessed for durability. Contact your nearest Stramit office for advice.

COLOURS

Most Stramit® products are available in the full range of COLORBOND® steel colours. In addition other colours, including gloss finish are stocked at some locations. Please check with your nearest Stramit Building Products office or distributor for availability.

MATERIAL COMPATIBILITY

Drainage from copper or lead products (including roof flashings) should not be allowed to discharge on to zinc/aluminium, aluminium/zinc/magnesium coated steel or COLORBOND® steel components. Similarly, lead or copper components should not be installed in contact with zinc/aluminium or aluminium/zinc/magnesium coated steel. Each of these combinations will lead to premature corrosion.

Drainage from copper, COLORBOND® steel and zinc/aluminium, aluminium/zinc/magnesium coated steel, translucent (or other inert material) should not be allowed to discharge onto, or into, galvanised products.

FASCIA/GUTTER COMPATIBILITY

Only Stramit® Gutters may be used with Stramit® Fascia. Similarly only authentic Stramit accessories are suitable for connecting Stramit® Gutters to Stramit® Fascia.

TESTING

Stramit Building Products has in-house, purpose built testing equipment used to design, develop and improve products for the Australian market. In addition many Stramit® products are tested or witnessed by independent organisations. These include:

- University of Technology, Sydney
- Cyclone Testing Station (James Cook University)
- The University of Sydney
- CSIRO

The ongoing research and development activity ensures that Stramit remains at the forefront of innovation, design and consumer information.

ARCHITECTURAL SPECIFICATION

A similar specification for each product can be found on the Stramit website and can easily be downloaded onto your documentation.

The [product type – e.g. gutter] shall be Stramit [product name – e.g. M Pattern] or agreed exact equivalent in size and performance. Material shall be protected steel sheet to Australian Standard AS1397 with a minimum yield stress of 550MPa and an AM100/AZ150 coating with a (nominate colour) oven baked paint film or a plain AM125/AZ150 coating. All accessories are to be fully compatible as recommended by the manufacturer. The product and its accessories shall be installed strictly in accordance with the manufacturer's recommendations and all applicable regulations. Flashings and all adjacent products shall be supplied in compatible materials as specified. All work shall be fixed in a workman like manner, leaving the job clean and weather tight. All debris (screws, rivets, cuttings and filings, etc) shall be cleaned off daily. Repair all minor blemishes with touch up paint supplied by the manufacturer.

STANDARDS CONFORMANCE

All Stramit® Rainwater Products are conformant with, or equivalent to AS/NZS 2179.1.

GUTTER OVERFLOW

Gutter overflow needs to be considered when designing and installing gutter systems. The overflow devices should have adequate capacity and the roof drainage system must be in accordance with AS/NZS 3500.3. Detailed information is provided in this document on pages 6 and 7.

DESIGN

GENERAL

PERFORMANCE

Stramit® Rainwater Products have been designed and/or tested to all appropriate loadings and design action effects. These include wind, atmospheric corrosion, rainwater flow, rainwater mass, foot traffic loads, dead loads and ladder loads. The performance information for each product indicates those action effects accounted for in each case.

RAINFALL INTENSITY

Values of rainfall intensity in the table are for 20 and 100 year ARI, 5 minute durations and have been derived from NCC 2019 and Bureau of Meteorology data. It should however be emphasised that the extent and longevity of records in Australia are limited and any such data therefore carries with it a degree of uncertainty. The 20 year ARI values should only be used for external eave gutters. For internal/box gutters and overflow design, use 100 year ARI values.

RAINFALL INTENSITIES (mm/hr)		
	20 year	100 year
AUSTRALIAN CAPITAL TERRITORY		
Canberra	143	193
NEW SOUTH WALES		
Albury	139	180
Armidale	179	238
Batemans Bay	192	268
Bathurst	125	164
Bowral	161	220
Broken Hill	143	219
Coffs Harbour	277	382
Cowra	140	190
Dubbo	167	222
Forbes	151	205
Gosford	218	313
Goulburn	121	156
Kempsey	216	287
Kiama	226	319
Lismore	208	270
Lithgow	149	196
Maitland	191	266
Mittagong	163	222
Newcastle	226	316
Nowra	179	247
Orange	142	186
Parramatta	163	209
Penrith	180	244
Port Macquarie	233	313
Riverstone	176	234
Sydney	200	262
Tweed Heads	252	330
Wagga Wagga	154	208
Wollongong	217	308
Wyong	221	320

Specific data for any location can be obtained from the Australian Bureau of Meteorology.

SNOW

It is common practice not to use gutters in snow prone areas but to take care of roof run-off at ground level. Information on designing in snow areas can be found in Standards Australia Handbook HB 106 “Guidelines for the design of structures in snow areas”.

In snow prone areas Stramit® Fascia may only be used with a tilt batten designed to take the additional roof loading.

HAIL

Experience has shown that Stramit® Steel Gutters are able to resist impact from significantly sized hail without damage. However, in hail prone areas consideration should be given to ensuring that gutter fronts are well below roof level. This should avoid the damming effect of hail which, if it builds up onto the roof, can lead to overloading and failure of the gutter.

LEAVES

Leaves in gutters can be a problem. They come in many shapes and sizes and roof debris may also include branches, twigs and both organic and inorganic particles. Many systems have been and are used to try to solve this problem. The optimum solution will vary with each situation and may be influenced by a number of factors that include the nature and proximity of vegetation, the level of maintenance and the primary motivation (e.g. water collection, maintenance reduction, gutter system durability, bushfire hazard reduction etc.).

One method is to use adequately sized gutters set well below the roof edge with a good fall and large downpipes with well angled offsets to avoid corner blockages, clear frequently and remove overhanging vegetation.

An often-used method is an additional mesh guard or perforated gutter covering. Those of a very fine mesh will keep most debris from the gutters but can be prone to dirt and algal build up leading to mesh blockage. This does keep leaves from the gutter and downpipe, but ultimately it may not allow water to pass into the gutter. Any water trapped within the gutter may not dry out which could compromise durability.

Larger mesh guards stop large leaves and branches from entering the gutter but it may be possible for twigs and branches to catch in the mesh ultimately creating a dam causing water to flow back into the building eaves.

It is also important, if a cover or leaf guard is used, that it is material-compatible with the gutter and that both the gutter and the guard are cleared regularly.

DESIGN FACTORS

In the design and detailing of a roof drainage system, consideration must be given to a range of factors such as rainfall intensity, roof catchment area, gutter size/capacity, gutter fall, gutter outlets (sumps, rainwater heads, nozzles), downpipes (size, quantity and placement), overflow consideration, material selection, jointing, etc.

BUILDING CODE COMPLIANCE

Under the Environmental Planning and Assessment Act 1979 and its regulations, all building work must be carried out in accordance with the Building Code of Australia (BCA), now part of the National Construction Code (NCC). In addition to referring to Australian Standard AS/NZS 3500.3, the NCC also contains requirements for the disposal of surface water in Volume One, Performance Requirements FP1.2 and FP 1.3, and in Volume Two, Part 3.5.3, namely, Performance Requirement P2.2.1 and Clauses 3.5.3.0. to 3.5.3.5.

The most common means of satisfying these requirements for roof drainage (i.e. guttering) installations is by complying with the National Plumbing and Drainage Code AS/NZS 3500.3.

Furthermore, in each state and territory it is necessary to satisfy the relevant regulation. The NSW Code of Practice for Plumbing and Drainage adopts AS/NZS 3500.3 and associated amendments.

HIGH FRONT GUTTERS

High front gutters are commonly used in residential roof drainage systems to conceal the lower edge of roof cladding or tiles. These gutters form part of the roof drainage system, which is required to comply with the National Construction Code. Details of the design process for roof drainage systems, which includes selecting overflow measures, are given in The National Plumbing and Drainage Code AS/NZS 3500.3. Information on overflow measures is also given in the National Construction Code.

OVERFLOW PROVISION

The National Construction Code requires that where high-fronted gutters are installed provision must be made to avoid any overflow back into the roof or building structure by incorporating overflow measures or the like. Overflow design must be based on the 100 year ARI 5 minute duration rainfall intensity.

Methods of providing for overflow in the design and installation of roof drainage systems with high front gutters may include:

- Slotted gutter front to allow for water overflow through the slots visible on the front face of the gutter.
- Gap between the fascia and the gutter back, either by inserting a packer between the back of the gutter and the fascia or by employing proprietary systems and trade solutions.
- Specific overflow measures, such as:
  - Inverted downpipe drop/pop nozzle at high points in the gutter but set at a level below the fascia top.
  - Stop ends cut down to a lower level to act as a weir. Stop end weirs could be hidden at the high point of the gutter and designed as part of an expansion joint.
  - Rainwater heads with overflow weir
  - Holes, slot, or weir at downpipes

Examples of continuous and non-continuous overflow measures are illustrated on page 7. Slotted gutters may also provide an adequate overflow measure in some applications. In high rainfall intensity regions a combination of overflow methods may be required.

ALTERNATIVE OVERFLOW MEASURES

Overflow may also be addressed through alternative building design methods, such as:

- Unlined eaves, where appropriate to the house design, to eliminate the issue.
- Gutter installed so that the gutter front is 10mm below the top of the fascia.
- Back flashing, where gutter support brackets allow for installation of back flashing (e.g., external brackets).

The detailing and sizing of the selected overflow method/s is normally completed by the designer/ installer, but must be adequate for the situation and must meet the relevant performance requirements of the NCC and Australian Standards.

MAINTENANCE CONSIDERATIONS

In the longer term, the ability of a roof drainage system to handle overflow will also depend on the regular cleaning of the system. For example, the removal of plant or animal matter (leaves, fungal growth, droppings, nests, etc.) and debris from gutters, leaf-guard systems and the gutter overflow devices to ensure free drainage of water.

Adequate maintenance is a requirement of rainwater goods warranties.

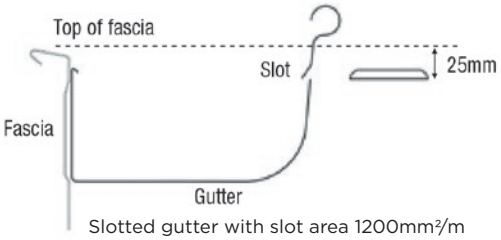
INSTALLER RESPONSIBILITY

While there may be variations between states, contractors who install guttering systems are generally required to hold an appropriate licence. The work is required to comply with the appropriate codes and standards. Statutory warranties normally apply and consumers have a right to lodge a complaint with the appropriate authority.

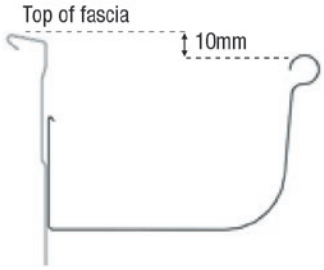
During the installation of the roof drainage system, particular attention should be given to the following:

- The use of compatible materials for drainage system components, leaf-guard system components and fasteners/sealants to connect and seal the components.
- The position of the gutter in relation to the fascia.
- Installation of the specified gutter and downpipes, and ensuring that downpipes are installed in the correct locations and numbers.
- Gutter fall, ensuring sufficient fall in the direction of the downpipes.
- Overflow must be allowed for and specific components installed where required.
- All debris and loose waste materials (swarf, fasteners, etc.) must be cleaned off at the end of each day and at the completion of the installation, to prevent blockages of the drainage system or deterioration of the individual components. Any protective films should also be removed as part of the installation process.

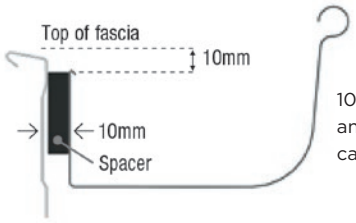
CONTINUOUS OVERFLOW MEASURES



Slotted gutter with slot area 1200mm²/m – overflow capacity 0.5L/s/m
720mm²/m – overflow capacity 0.3L/s/m

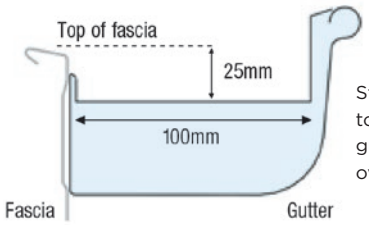


Front of gutter 10mm below top of fascia – overflow capacity 1.5 L/s/m

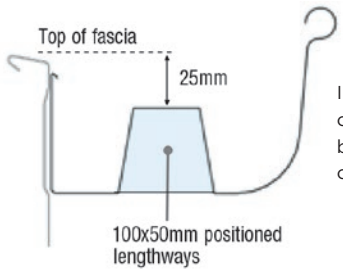


10mm gap between gutter and fascia – overflow capacity 1.5 L/s/m

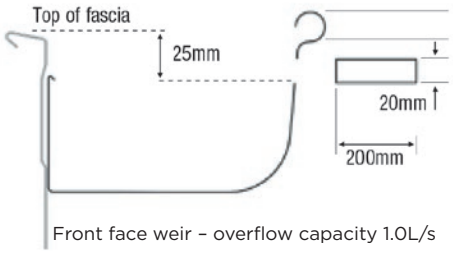
SPECIFIC OVERFLOW MEASURES



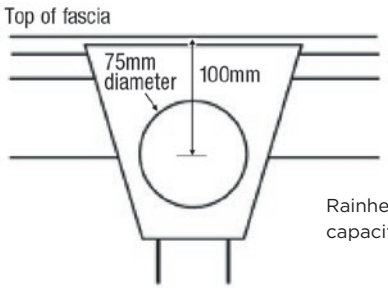
Stop ends finished below top of fascia and rear of gutter to form a weir – overflow capacity 0.5L/s



Inverted nozzle at high ends of gutter finished below back of gutter – overflow capacity 1.2L/s



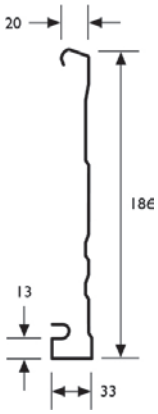
Front face weir – overflow capacity 1.0L/s



Rainhead – overflow capacity 3.5L/s

Note: Information based on National Construction Code 2019

STRAMIT® FASCIA



SPANS

The spanning capability of Stramit® Fascia shown has been determined by testing (in accordance with AS4040.1) for a combination of roof tile and foot traffic loads.

The maximum spacing of Stramit® Fascia rafter brackets is:

– Where a separate tilt/roof batten is fitted adjacent to the fascia:

- internal spans 1500mm
- end spans 1200mm maximum (200 minimum)

Note that for a jack rafter to be considered as a support position it must be adequately connected to the hip rafter.

– Where the fascia is used as the tilt batten:

- internal spans 1200mm
- end spans 900mm

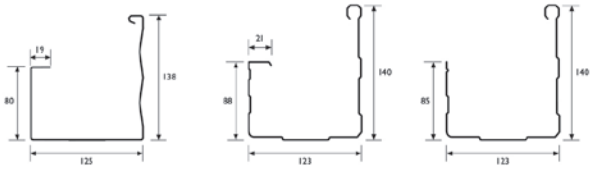
PRESSURES

The wind resistance of Stramit® Fascia has then been determined at these spans by testing in accordance with AS4040.2 – and for each of the spans is suitable for use in areas of up to: 0.92 kPa SERVICEABILITY LIMITSTATE, 2.25 kPa STRENGTH LIMIT-STATE. These pressures are equivalent to: N3 (Region A – rural, Region B – exposed suburban).

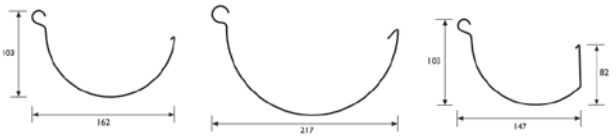
STRAMIT® GUTTERS

STRAMIT® GUTTERS – CROSS SECTIONAL AREA (mm²)		
Gutter Style	Slotted	Unslotted
Stramit InfinitiLine® Quad Gutter	5200	5400
Stramit® Quad 115 Gutter		4700
Stramit® Hi-Front Quad Gutter	5200	5300
Stramit® Quad 125 Gutter		6200
Stramit Triline® HB and SB Gutter	7700	7700
Stramit® M Pattern Gutter	7900	9100
Stramit® S Pattern Gutter	7900	9100
Stramit® Half Round Gutter 150	7700	7700
Stramit® Flatback Gutter 150	7800	7800
Stramit® Half Round Gutter 200		13500

Stramit® Quad 115 Gutter | Stramit InfinitiLine® Quad Gutter | Stramit® Hi-Front Quad Gutter | Stramit® Quad 125 Gutter



Stramit Triline® Gutter (SB shown) | Stramit® S Pattern Gutter | Stramit® M Pattern Gutter



Stramit® Half Round Gutter 150 | Stramit® Half Round Gutter 200 | Stramit® Flatpack Gutter 150

SPANS

Stramit® Gutters require the correct proprietary Stramit® brackets (or snap clip/stiffener bracket combination) for support at spacing no greater than those shown in the following table.

STRAMIT® GUTTERS – MAXIMUM SUPPORT SPACINGS (mm)	
Stramit InfinitiLine® Quad Gutter	1200
Stramit® Quad 115 Gutter	1200
Stramit® Hi-Front Quad Gutter	1200
Stramit® M Pattern Gutter	1200
Stramit® S Pattern Gutter	1200
Stramit Triline® HB and SB Gutter	1200
Stramit® Half Round Gutter 150	900
Stramit® Half Round Gutter 200	900
Stramit® Flatback Gutter 150	900

THERMAL EXPANSION

Gutter runs in excess of 20m require the provision of an expansion joint.

FALL

Stramit recommends that an absolute minimum fall of 1 in 500 be used for all gutters, this being a design requirement for the gutter and downpipe selection table [on the facing page]. Good fall reduces the risk of leaf and debris deposition that could otherwise effect durability.

GUTTER CAPACITY

In theory any size of gutter can be used to drain any roof catchment. What controls design is the number of downpipes needed to perform within the capacity of each gutter. In practice the larger the gutter the less the number of downpipes required, as indicated in the table on page 9.

Normally catchment calculations must take into account the increased area due to roof slope. The required downpipe table incorporated into this manual takes account of roof slopes up to 23°. Therefore the roof area for use with this table requires only the simple calculation of plan area.

STRAMIT® GUTTERS & DOWNPIPES - NUMBER OF DOWNPIPES REQUIRED FOR TYPICAL ROOF INSTALLATION

GUTTER STYLE										Max area per downpipe (m²)	Roof plan area (m²) - for roofs up to 23°										
Stramit® Quad 115	Stramit InfinitiLine® Quad / Stramit® Hi-Front Quad		Stramit® Quad 125	Stramit Triline® HB & SB	Stramit® M/S-Pattern		Stramit® Half Round 150	Stramit® Flatback 150	Stramit® Half Round 200		100	120	140	160	180	200	220	240	260	280	300
Slotted ?																					
N	Y	N	N	Y/N	Y	N	Y/N	Y/N	N												
Location rainfall intensity (mm/hr)																					
									160	100	2	2	2	2	3	3	3	3	4	4	4
									170	94	2	2	2	3	3	3	3	4	4	4	4
									180	89	2	2	2	3	3	3	3	4	4	4	5
									190	84	2	2	3	3	3	3	4	4	4	5	5
									200	80	2	2	3	3	3	4	4	4	4	5	5
						130			220	73	2	2	3	3	3	4	4	4	5	5	5
						140			230	70	2	3	3	3	4	4	4	5	5	5	6
									240	67	2	3	3	3	4	4	4	5	5	6	6
						150				65	2	3	3	3	4	4	5	5	5	6	6
					130				250	63	2	3	3	4	4	4	5	5	5	6	6
				130		160	130	130	260	61	2	3	3	4	4	4	5	5	6	6	6
					140				270	58	3	3	3	4	4	5	5	5	6	6	7
				140		170	140	140	280	57	3	3	3	4	4	5	5	6	6	6	7
					150				290	55	3	3	4	4	4	5	5	6	6	7	7
						180		150		54	3	3	4	4	5	5	5	6	6	7	7
				150			150			53	3	3	4	4	5	5	6	6	6	7	7
				160	160	200	160	160		49	3	3	4	4	5	5	6	6	7	7	8
			130	170	180		170	170		45	3	4	4	5	5	6	6	7	7	8	8
						220		180		44	3	4	4	5	5	6	6	7	8	8	9
				180			180			44	3	4	4	5	5	6	7	7	8	8	9
			140		190	230		190		42	3	4	4	5	6	6	7	7	8	8	9
				190			190			42	3	4	5	5	6	6	7	7	8	9	9
					200	240				41	3	4	5	5	6	6	7	8	8	9	9
			150	200			200	200		40	4	4	5	5	6	7	7	8	8	9	10
					210	250				39	4	4	5	5	6	7	7	8	9	9	10
		130						210		38	4	4	5	6	6	7	7	8	9	9	10
			160	210			210			38	4	4	5	6	6	7	8	8	9	9	10
	130				220	260		220		37	4	4	5	6	6	7	8	8	9	10	10
		140	170	220	230	270	220	230		35	4	5	5	6	7	7	8	9	9	10	11
	140					280				35	4	5	5	6	7	7	8	9	10	10	11
				230	240		230			34	4	5	5	6	7	8	8	9	10	10	11
			180			290		240		33	4	5	6	6	7	8	8	9	10	11	11
		150		240			240			33	4	5	6	6	7	8	9	9	10	11	11
130	150				250					32	4	5	6	6	7	8	9	9	10	11	12
			190	250	260		250	250		32	4	5	6	7	7	8	9	10	10	11	12
		160						260		31	4	5	6	7	8	8	9	10	11	11	12
140	160			260	270		260			30	4	5	6	7	8	8	9	10	11	12	12
			200					270		30	5	5	6	7	8	9	9	10	11	12	13
		170		270	280		270			29	5	5	6	7	8	9	10	10	11	12	13
			210					280		29	5	6	6	7	8	9	10	11	11	12	13
150	170			280			280			29	5	6	6	7	8	9	10	11	12	12	13
								290		28	5	6	7	7	8	9	10	11	12	13	14
		180	220	290			290			27	5	6	7	8	8	9	10	11	12	13	14
	180									27	5	6	7	8	9	9	10	11	12	13	14
160										27	5	6	7	8	9	10	10	11	12	13	14
			230							26	5	6	7	8	9	10	11	12	12	13	14
		190								26	5	6	7	8	9	10	11	12	13	13	14
170	200	200	240							24	5	6	7	8	9	10	11	12	13	14	15
180	210	210	260							23	6	7	8	9	10	11	12	13	14	15	16
		220								23	6	7	8	9	10	11	12	13	14	15	17
190										23	6	7	8	9	10	11	12	13	14	16	17
	220									22	6	7	8	9	10	11	13	14	15	16	17
		230	280							22	6	7	8	9	11	12	13	14	15	16	17
200										21	6	7	8	10	11	12	13	14	15	16	17
	230									21	6	7	9	10	11	12	13	14	15	17	18
		240								21	6	8	9	10	11	12	13	15	16	17	18
210	240									20	6	8	9	10	11	12	14	15	16	17	18
		250								20	7	8	9	10	11	13	14	15	16	18	19
220	250									19	7	8	9	10	12	13	14	15	17	18	19
230										19	7	8	10	11	12	14	15	16	17	19	20
240										18	7	9	10	11	13	14	15	17	18	20	21
250										17	8	9	10	12	13	15	16	17	19	20	22

Intensities for Sydney

Note: Minimum gutter gradient 1:500 or steeper

The selection of the number of downpipes is carried out in accordance with AS/NZS 3500.3 (Stormwater drainage)
However, the larger the gutter the larger the downpipe required. The minimum size of downpipe associated with each Stramit® Gutter is given in the Stramit® Downpipes section that follows.

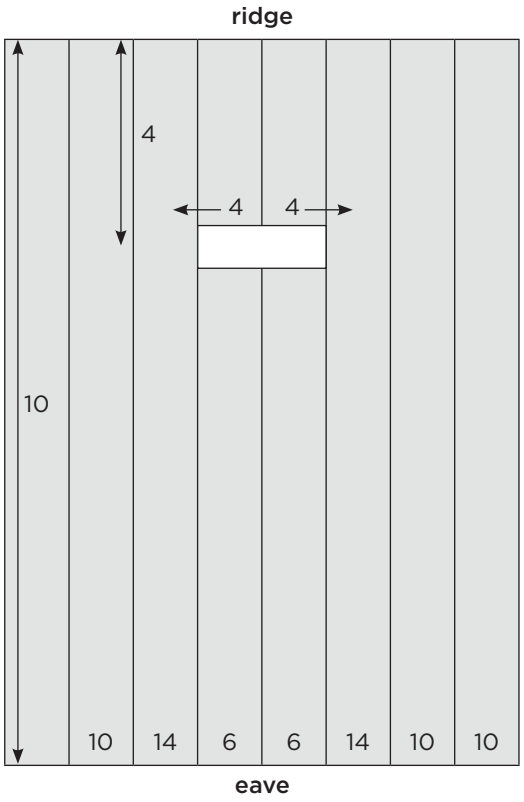
OVERFLOW MEASURES

Slotted Stramit® gutters give some overflow provision, when used with the Stramit® Snap Clip. A higher overflow volume can be catered for by providing the Stramit® Gutter Spacer or the Stramit BAT® Clip. The table below gives the maximum sloped roof run length which can be used for the overflow through the slots, and back of gutter. These values are based on independent testing. Where the Stramit® Gutter Spacer or BAT® Clip is used, they need to be installed as recommended in the installation leaflets provided with the product.

ROOF RUN LENGTH

When finding the maximum sloped roof run length, it is important to consider the additional length of roof which contributes to the flow in any one position, if there is a roof penetration or spreader. In these positions, the effective roof run length would be longer than the distance from the ridge to the eaves. A simplified method of finding this length is shown in the illustration. In this case, the maximum roof run length is 14m for a 10m length of roof due to the penetration 4m down from the ridge.

If the catchment area is known, the roof run length can be found by dividing the area by the length of gutter it feeds into.



OVERFLOW MEASURES - NEW SOUTH WALES AND AUSTRALIAN CAPITAL TERRITORY

Location	Rainfall Intensity (mm/hr)	Maximum roof length feeding into gutter (m)																								
		4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16
ACT																										
Canberra	193	0.21	0.24	0.27	0.29	0.32	0.35	0.38	0.40	0.43	0.46	0.48	0.51	0.54	0.56	0.59	0.62	0.64	0.67	0.70	0.72	0.75	0.78	0.80	0.83	0.86
NSW																										
Goulburn	156	0.17	0.20	0.22	0.24	0.26	0.28	0.30	0.33	0.35	0.37	0.39	0.41	0.43	0.46	0.48	0.50	0.52	0.54	0.56	0.59	0.61	0.63	0.65	0.67	0.69
Bathurst	164	0.18	0.21	0.23	0.25	0.27	0.30	0.32	0.34	0.36	0.39	0.41	0.43	0.46	0.48	0.50	0.52	0.55	0.57	0.59	0.62	0.64	0.66	0.68	0.71	0.73
Albury	180	0.20	0.23	0.25	0.28	0.30	0.33	0.35	0.38	0.40	0.43	0.45	0.48	0.50	0.53	0.55	0.58	0.60	0.63	0.65	0.68	0.70	0.73	0.75	0.78	0.80
Orange	186	0.21	0.23	0.26	0.28	0.31	0.34	0.36	0.39	0.41	0.44	0.47	0.49	0.52	0.54	0.57	0.59	0.62	0.65	0.67	0.70	0.72	0.75	0.78	0.80	0.83
Cowra	190	0.21	0.24	0.26	0.29	0.32	0.34	0.37	0.40	0.42	0.45	0.48	0.50	0.53	0.55	0.58	0.61	0.63	0.66	0.69	0.71	0.74	0.77	0.79	0.82	0.84
Lithgow	196	0.22	0.25	0.27	0.30	0.33	0.35	0.38	0.41	0.44	0.46	0.49	0.52	0.54	0.57	0.60	0.63	0.65	0.68	0.71	0.74	0.76	0.79	0.82	0.84	0.87
Forbes	205	0.23	0.26	0.28	0.31	0.34	0.37	0.40	0.43	0.46	0.48	0.51	0.54	0.57	0.60	0.63	0.65	0.68	0.71	0.74	0.77	0.80	0.83	0.85	0.88	0.91
Wagga Wagga	208	0.23	0.26	0.29	0.32	0.35	0.38	0.40	0.43	0.46	0.49	0.52	0.55	0.58	0.61	0.64	0.66	0.69	0.72	0.75	0.78	0.81	0.84	0.87	0.90	0.92
Parramatta	209	0.23	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.46	0.49	0.52	0.55	0.58	0.61	0.64	0.67	0.70	0.73	0.75	0.78	0.81	0.84	0.87	0.90	0.93
Broken Hill	218	0.24	0.27	0.30	0.33	0.36	0.39	0.42	0.45	0.48	0.51	0.55	0.58	0.61	0.64	0.67	0.70	0.73	0.76	0.79	0.82	0.85	0.88	0.91	0.94	0.97
Bowral	220	0.24	0.28	0.31	0.34	0.37	0.40	0.43	0.46	0.49	0.52	0.55	0.58	0.61	0.64	0.67	0.70	0.73	0.76	0.79	0.83	0.86	0.89	0.92	0.95	0.98
Dubbo	222	0.25	0.28	0.31	0.34	0.37	0.40	0.43	0.46	0.49	0.52	0.56	0.59	0.62	0.65	0.68	0.71	0.74	0.77	0.80	0.83	0.86	0.89	0.93	0.96	0.99
Mittagong	222	0.25	0.28	0.31	0.34	0.37	0.40	0.43	0.46	0.49	0.52	0.56	0.59	0.62	0.65	0.68	0.71	0.74	0.77	0.80	0.83	0.86	0.89	0.93	0.96	0.99
Riverstone	234	0.26	0.29	0.33	0.36	0.39	0.42	0.46	0.49	0.52	0.55	0.59	0.62	0.65	0.68	0.72	0.75	0.78	0.81	0.85	0.88	0.91	0.94	0.98	1.01	1.04
Armidale	238	0.26	0.30	0.33	0.36	0.40	0.43	0.46	0.50	0.53	0.56	0.60	0.63	0.66	0.69	0.73	0.76	0.79	0.83	0.86	0.89	0.93	0.96	0.99	1.02	1.06
Penrith	244	0.27	0.31	0.34	0.37	0.41	0.44	0.47	0.51	0.54	0.58	0.61	0.64	0.68	0.71	0.75	0.78	0.81	0.85	0.88	0.92	0.95	0.98	1.02	1.05	1.08
Nowra	247	0.27	0.31	0.34	0.38	0.41	0.45	0.48	0.51	0.55	0.58	0.62	0.65	0.69	0.72	0.75	0.79	0.82	0.86	0.89	0.93	0.96	0.99	1.03	1.06	1.10
Sydney	262	0.29	0.33	0.36	0.40	0.44	0.47	0.51	0.55	0.58	0.62	0.66	0.69	0.73	0.76	0.80	0.84	0.87	0.91	0.95	0.98	1.02	1.06	1.09	1.13	1.16
Maitland	266	0.30	0.33	0.37	0.41	0.44	0.48	0.52	0.55	0.59	0.63	0.67	0.70	0.74	0.78	0.81	0.85	0.89	0.92	0.96	1.00	1.03	1.07	1.11	1.15	1.18
Batemans Bay	268	0.30	0.34	0.37	0.41	0.45	0.48	0.52	0.56	0.60	0.63	0.67	0.71	0.74	0.78	0.82	0.86	0.89	0.93	0.97	1.01	1.04	1.08	1.12	1.15	1.19
Lismore	270	0.30	0.34	0.38	0.41	0.45	0.49	0.53	0.56	0.60	0.64	0.68	0.71	0.75	0.79	0.83	0.86	0.90	0.94	0.98	1.01	1.05	1.09	1.13	1.16	1.20
Kempsey	287	0.32	0.36	0.40	0.44	0.48	0.52	0.56	0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.92	0.96	1.00	1.04	1.08	1.12	1.16	1.20	1.24	1.28
Wollongong	308	0.34	0.39	0.43	0.47	0.51	0.56	0.60	0.64	0.68	0.73	0.77	0.81	0.86	0.90	0.94	0.98	1.03	1.07	1.11	1.16	1.20	1.24	1.28	1.33	1.37
Gosford	313	0.35	0.39	0.43	0.48	0.52	0.57	0.61	0.65	0.70	0.74	0.78	0.83	0.87	0.91	0.96	1.00	1.04	1.09	1.13	1.17	1.22	1.26	1.30	1.35	1.39
Port Macquarie	313	0.35	0.39	0.43	0.48	0.52	0.57	0.61	0.65	0.70	0.74	0.78	0.83	0.87	0.91	0.96	1.00	1.04	1.09	1.13	1.17	1.22	1.26	1.30	1.35	1.39
Newcastle	316	0.35	0.40	0.44	0.48	0.53	0.57	0.61	0.66	0.70	0.75	0.79	0.83	0.88	0.92	0.97	1.01	1.05	1.10	1.14	1.19	1.23	1.27	1.32	1.36	1.40
Kiama	319	0.35	0.40	0.44	0.49	0.53	0.58	0.62	0.66	0.71	0.75	0.80	0.84	0.89	0.93	0.97	1.02	1.06	1.11	1.15	1.20	1.24	1.28	1.33	1.37	1.42
Wyong	320	0.36	0.40	0.44	0.49	0.53	0.58	0.62	0.67	0.71	0.76	0.80	0.84	0.89	0.93	0.98	1.02	1.07	1.11	1.16	1.20	1.24	1.29	1.33	1.38	1.42
Tweed Heads	330	0.37	0.41	0.46	0.50	0.55	0.60	0.64	0.69	0.73	0.78	0.83	0.87	0.92	0.96	1.01	1.05	1.10	1.15	1.19	1.24	1.28	1.33	1.38	1.42	1.47
Coffs Harbour	382	0.42	0.48	0.53	0.58	0.64	0.69	0.74	0.80	0.85	0.90	0.96	1.01	1.06	1.11	1.17	1.22	1.27	1.33	1.38	1.43	1.49	1.54	1.59	1.64	1.70

HFQ - Hi-Front Quad

* Based on test results

NOTE: Values in the table are in L/s/m. A measure with a larger overflow volume can be substituted for one with a smaller volume.

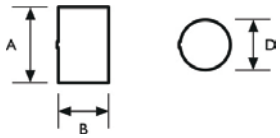
- Slot area 720mm²/m - Overflow volume 0.3L/s/m (HFQ)
- Slot area 1200mm²/m - Overflow volume 0.5L/s/m (HFQ)
- Stramit® Gutter Spacer - Overflow volume 1.2L/s/m*
- Stramit BAT® clip - Overflow volume - 1.5L/s/m
- Stramit® Gutter Spacer combined with Slot area 1200mm²/m (HFQ) - 1.7L/s/m or Stramit BAT® clip combined with slot area 720mm²/m - 1.8L/s/m (HFQ)
- Slotted InfinitiLine® Quad Gutter - Overflow volume - 1.8L/s/m

The above data is valid for InfinitiLine® and Hi-Front Quad gutters. For other gutters, and for information on availability of different slot areas, please contact your local Stramit office for advice.

For gutters with a ribbed rather than hook back only, the data in the table for overflow where the Stramit® Gutter Spacer is used is valid for the installation of the gutters on the third notch of the snap clip or below. If overflow provisions are required where the gutter is on the top two notches and the Stramit® Gutter Spacer is used, please contact your local Stramit office for advice.

STRAMIT® DOWNPIPES

Stramit Building Products offer a wide range of round and rectangular downpipes, each of which is tapered to permit easy assembly.



Sizing of minimum downpipe size relates only to the cross-sectional area of the chosen gutter. The table below gives the minimum round and rectangular downpipe size for each Stramit® Gutter.

STRAMIT® DOWNPIPES – MINIMUM SIZES (mm)		
Gutter Style	Round * (diameter)	Rectangular *
Stramit InfinitiLine® Quad Gutter	90	100 x 50
Stramit® Quad 115 Gutter	90	100 x 50
Stramit® Hi-Front Quad Gutter slotted / unslotted	90	100 x 50
Stramit® Quad 125 Gutter	90	100 x 50
Stramit Triline® HB and SB Gutter	100	100 x 75
Stramit® M Pattern Gutter slotted unslotted	 100 125	 100 x 75 100 x 75
Stramit® S Pattern Gutter slotted unslotted	 100 125	 100 x 75 100 x 75
Stramit® Half Round Gutter 150	100**	100 x 75**
Stramit® Flatback Gutter 150	100**	100 x 75**
Stramit® Half Round Gutter 200	150**	150 x 100**

* Smaller downpipes may be used provided the gutter capacity is reduced in drainage calculations.

** To be able to connect with these downpipes a specialist nozzle is required.

OTHER STRAMIT® RAINWATER & FLASHING PRODUCTS

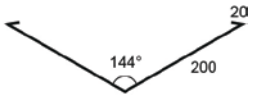
STRAMIT® CUSTOM FLASHINGS

Stramit® Custom Flashings are available in an almost infinite variety of shapes and sizes. Preferred girth widths are 150, 250, 300 and 400mm and lengths of up to 8m are possible. The details of all Stramit® Custom Flashings must be provided in hard copy (e.g. fax). Contact the nearest Stramit branch for more details or refer to the NSW Product & Service Guide.

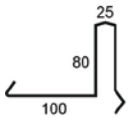
STRAMIT® STANDARD FLASHINGS

All of the following products require nominally continuous support.

Stramit® Roll Top Ridge

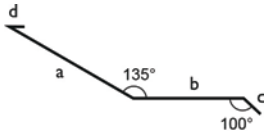


Stramit® Valley
(Available plain or ribbed. Suitable for 50mm roof overhang on either side)



Stramit® Barge Gutter

Stramit® Edge Roll

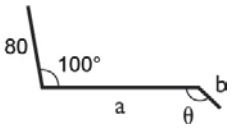


Stramit® Tile Flashing

STRAMIT® TILE FLASHING				
	a	b	c	d
Ⓒ	130	130	20	10
Ⓢ	190	150	40	20
Ⓜ	130	130	30	10

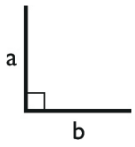
Stramit®
Three Break Ridge

STRAMIT® THREE BREAK RIDGE				
	a	b	θ	ϒ
Ⓒ	150	20	135°	165°
Ⓢ	185	40	155°	105°
Ⓜ	170	30	155°	115°



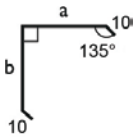
Stramit®
Under Flashing

STRAMIT® UNDER FLASHING			
	a	b	θ
Ⓒ	140	20	115°
Ⓢ	180	40	105°
Ⓜ	130	30	105°



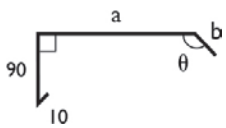
Stramit®
Angle Flashing

STRAMIT® ANGLE FLASHING	
a	b
50	50
100	100
150	100
150	150



Stramit®
Barge Angle

STRAMIT® BARGE ANGLE		
	a	b
BA1	90	90
BA2	140	90
BA3	140	140



Stramit® Barge

STRAMIT® BARGE			
	a	b	θ
Ⓒ	180	20	115°
Ⓢ	160	40	105°
Ⓜ	170	30	105°

Ⓒ suits Stramit® Corrugated sheeting
Ⓢ suits Stramit Speed Deck Ultra® decking
Ⓜ suits Stramit Monoclad®, Longspan® sheeting
Linear dimensions in mm

PROCUREMENT

ACCESSORIES

Use only the correct, authentic Stramit® Accessories with Stramit® Rainwater Products.

The following accessories are available for each product:

Stramit Fascia

- 45°/90° External Corners
- 45°/90° Internal Corner Caps
- Rafter Bracket
- Barge Bracket
- LH/RH Barge Corner
- Apex Cover Plate
- Splice Plate

Stramit® Quad Gutters

- Snap Clip
- Stramit® Gutter Spacer for overflow
- BAT® Overflow Clip (Hi-Front, Quad 115 and InfinitiLine® Quad)
- Concealed Bracket*
- Nail Thru Gutter Stiffener* (Quad 115 only)
- Gutter Stiffener (for use with Snap Clip or BAT® Clip)
- External Bracket*
- Overstrap
- LH/RH Stop End Plates
- LH/RH Cast Stop Ends (InfinitiLine® Quad only)
- 45°/90° Internal Cast Angles (InfinitiLine® Quad 90° only)
- 45°/90° External Cast Angles (InfinitiLine® Quad 90° only)

Stramit® Fascia Gutters

- Snap Clip
- Concealed Bracket*
- Gutter Stiffener (for use with Snap Clip or BAT® Clip)
- Stop End Plates
- Overstrap (S Pattern only)

Stramit® Half Round Gutters

- Snap Clip (Flatback only)
- Gutter Stiffener (Flatback only)
- External Brackets* (150/200 only)
- Stop End Plates
- 45°/90° Internal Cast Angles
- 45°/90° External Cast Angles

Stramit® Downpipes

- Astragals/Stops
- Nozzles/Pops/Drops

Note that in most cases the components shown are different for each particular gutter style or downpipe size.

* Not suitable for use with metal fascia less than 1mm thick.

ASSOCIATED PRODUCTS

- Roofing – wide range of profiles available.
- Roof & ceiling battens – range of top hats available.
- Flue & sewer accessories.
- Silicone – for all sealing requirements.
- Flashings & cappings – range of standard and custom flashings available.
- Rainwater heads – to suit most downpipe sizes.
- Edge roll – for neat edge finishing.

PRICES

Prices of products can be obtained from your nearest Stramit location or distributor of Stramit® Products. As Stramit does not provide an installation service, ask your tradesperson for a supply and fix price. Contact your nearest Stramit location for the names of tradespeople in your area.

HANDLING/STORAGE

Stramit® Rainwater Products should be handled with care at all times to preserve the product capabilities and quality of the finish. Packs should always be kept dry and stored above ground level while on site. If the products become wet, they should be separated, wiped and placed in the open to promote drying.

ORDERING

Stramit® Rainwater Products can be ordered directly through distributors, or supplied and fixed from an installer.

LENGTHS

Most rainwater products are available as stock lengths. Stramit® Fascia, gutters and valleys are available cut-to-length from Sydney.

DELIVERY/UNLOADING

Delivery can normally be made within 48 hours, subject to the delivery location and material availability, or can be at a pre-arranged date and time. Please ensure that suitable arrangements have been made for truck unloading, as this is the responsibility of the receiver. When lifting fascia, gutter and flashings, care should be taken to ensure that the load is spread to prevent damage. The protective strippable coating on COLORBOND® steel product should not be exposed to sunlight for more than about one week or this may become difficult to remove.

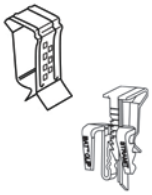
INSTALLATION

FASTENERS

All fastening screws must conform to AS3566 – Class 3. For connecting brackets use:

For fixing Stramit® Fascia rafter brackets to steel trusses (up to 2.5mm)
– 10 x 16mm hex-head self drilling & threading screws.

– to timber trusses – 10 x 25mm hex-head type 17 self-drilling screws.



For fixing gutters to Stramit® Fascia
– Stramit® Snap Clip (also requires a stiffener bracket), or
– Stramit BAT® Clip (also requires a stiffener bracket)

– Stramit® Gutter Spacer
– various lengths
– overflow provision

For fixing Gutter Brackets to timber fascia – 10 x 25mm wafer head self-drilling type 17 screws, or

– 40mm galvanised fluted nails.

For lap joints and accessories
– 3.2mm diameter aluminium pop rivets.

SITE INDUCTION

Consideration should be given to handling and installation issues as part of site induction safety procedures. Specific consideration should be given to pack handling, avoidance of cuts, trips, slips and falls, long section handling particularly in windy conditions, section cutting procedures and surface temperature on sunny days. Personal Protection Equipment (PPE) should always be used.

GOOD PRACTICE

Stramit recommends that good trade practice be followed when using the products such as that found in Standard Australia Handbook – HB39. "Installation code for metal roofing and wall cladding".

SECTION HANDLING

Cut resistant or leather gloves should be worn when handling product. Foot protection should be worn when handling and transporting product.

CUTTING

Stramit® Rainwater Products can be easily cut, where required, using a fine-toothed hacksaw and tin snips. Please dispose of any off-cuts carefully.

SEALING

Use only neutral-cure silicone for sealing joints when using Stramit® Rainwater Products. Take care to avoid pockets in joints which may hold moisture and potentially reduce durability.

PAINTING

Stramit® Rainwater Products are available in COLORBOND® steel colours. However should painting of zinc/aluminium or aluminium/zinc/magnesium coated steel products be required, use the following procedure.

A 'weathering' period of two weeks following installation will make painting easier. Clean the gutter/fascia immediately prior to painting. Dirt can be washed off using water with mild detergent. Any grease marks should be wiped away with paint thinners. In benign locations good quality acrylic paint will give satisfactory performance. First use a low-gloss water-borne acrylic primer. Finish with water-borne acrylic gloss (or your choice of gloss level).

WARNING - Never use paint thinners or other solvents on COLORBOND® steel surfaces.

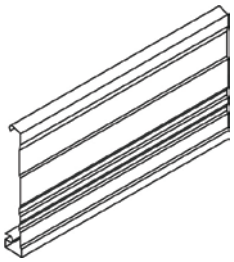
STRIPPABLE COATING

Some Stramit® Rainwater Products are supplied with a protective strippable coating. This should be removed at the last possible stage during the installation process. It is possible to selectively move the coating to one side to avoid fastenings and joints. Then finally remove the coating from the installed product.

WARNING - Do not leave products with strippable coating exposed to direct sunlight for more than about a week or it can become difficult to remove.

INSTALLATION STEPS

STRAMIT FASCIA



1. Cut Stramit® Fascia to suit a straight run.
2. Position and level rafter brackets near each end of the run (ensuring correct eave overhang and soffit height) and fix to the rafters.
3. Slide Stramit® Fascia over one end and slide along to the other end (or lift over brackets).
4. Insert remaining rafter brackets at required spacings and fix to rafters.
5. Repeat for each straight run, and then attach accessories.

STRAMIT® GUTTERS

Select and implement overflow provisions - see pages 6, 7 and 10.

For each of the fascia type and bracket combinations shown, if using the Stramit BAT® Overflow Clip or other Stramit® Gutter Spacer:

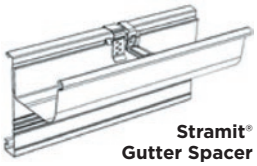
- Remember to allow for the small increase in gutter cut length due to the offset.
- Fixing of pre-prepared or cast corners as in step 2 below should only be done after clips / brackets and stiffeners are fitted.

For concealed brackets or when fixing to timber fascia, provide a suitable spacer behind the bracket before fixing or adjust height to a level where gutter bead is 10mm below top of fascia.

For fixing to Stramit® Fascia:

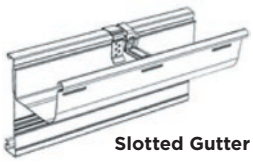
If using Stramit® Gutter Spacer or Stramit BAT® Clip, see separate installation sheets available on our website.

1. Cut Stramit® Gutter to suit a straight run, including downpipe outlet holes and end mitres.



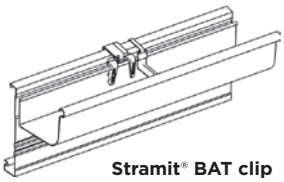
Stramit® Gutter Spacer

2. If using pre-prepared or cast corners these are generally installed first ensuring the correct height to allow for fall.
3. Push snap clips over fascia at no greater than maximum support spacing for the particular product.



Slotted Gutter

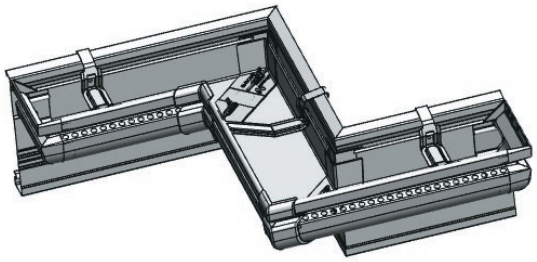
4. Push the back of the gutter under the snap clips to the lowest snap position.
5. Adjust the high point of the run to the desired position then apply the required fall (minimum 1 in 500) to the remainder of the gutter.
6. Attach a gutter stiffener bracket adjacent (within 50mm) to each snap clip.
7. Repeat for each straight run, and then attach accessories.



Stramit® BAT clip

Additional tips for installing InfinitiLine® Quad Gutter

Install InifinitiLine® Quad gutter in a similar manner to conventional Quad guttering. Internal and external corners are achieved using matching profile cast components.



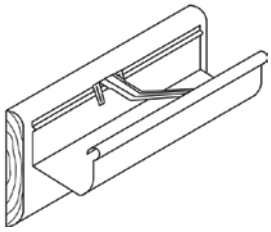
Lap joins

1. Cut InfinitiLine® Gutter to suit straight run, allowing enough overlap for pop riveting and adequate engagement of the two ends.
2. Cut out notch of approximately 25mm in the front top gutter roll of the gutter piece to be inserted.
3. Position and slide notched gutter end into the adjoining piece of gutter.
4. Rivet and seal as per usual practice.

External and Internal Corners

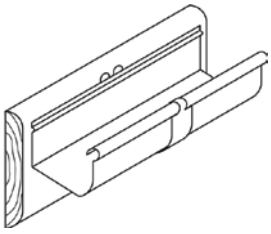
1. Position outer corner gutter bracket over the front of the gutter, aligning recess in corner bracket with recess in front of gutter.
2. Swing and lift rear of the corner bracket from underneath gutter and push to locate into position.
3. Position inner external bracket so that it can be insert front end (curved portion) first under the recessed potion of gutter.
4. Press the rear of the inner bracket down to lock into position. Note that the inner bracket piece has a thinner centre section which allows the inner part to flex and bend slightly to allow it to fit into position.
5. Rivet and seal joint prior to tightening butterfly nuts.

For fixing to timber fascia using concealed brackets:



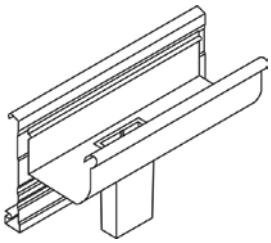
1. Cut Stramit® Gutter to suit a straight run, including downpipe outlet holes and end mitres.
2. If using pre-prepared or cast corners these are generally installed first ensuring the correct height to allow for fall.
3. Position a bracket at high end of the run and fix to the fascia.
4. Position and fix bracket at the other end of the run using a string line to set the required fall (minimum 1 in 500).
5. Position and fix intermediate brackets at no greater than maximum support spacing for the particular product.
6. Hook gutter to front of brackets, swing into position and fold down bracket tabs to secure, then for each fascia type.
7. Repeat for each straight run, and then attach accessories.

For fixing to timber fascia using external brackets:



1. Cut Stramit® Gutter to suit a straight run, including downpipe outlet holes and end mitres.
2. If using pre-prepared or cast corners these are generally installed first ensuring the correct height to allow for fall.
3. Position external bracket at the high end of the run and fix to the fascia.
4. Position and fix bracket at the low end of the run using a string line to set the required fall (minimum 1 in 500).
5. Using the string line as a guide position and fix intermediate brackets at no greater than maximum support spacing for the particular gutter.
6. Place the gutter onto the brackets and secure in position by folding down the front (and back for some products) tabs.
7. Repeat for each straight run, and then attach accessories.

STRAMIT® DOWNPIPES



1. Attach nozzle (pop/drop) to sole of gutter (usually done prior to installing gutter).
2. Fit or construct the offset, preferably at an angle of at least 15° to ensure good drainage.
3. Adjust downpipe height to suit using taper or, if necessary, by cutting.
4. Secure downpipes to the wall using at least one astragal (downpipe strap) per downpipe length.
5. Attach downpipe shoe.

ADDITIONAL INFORMATION

MAINTENANCE

Gutters, downpipes and other parts of rainwater installations need to be kept free of leaves and debris to function effectively. Exterior surfaces of metal products unwashed by rain can benefit from occasional washing. These area include portions of fascia and the underside of accompanying gutters.

FURTHER INFORMATION

As well as the standard range of Technical Manuals, Installation Leaflets, Case Studies and other promotional literature, Stramit has a series of Guides to aid design.

These include:

- Roof Slope Guide
- Roof and Wall Sheeting
- Foot Traffic Guide

OTHER PRODUCTS

Stramit offers a wide range of building products including:

- Purlins and Girts
- Roof and Wall Sheeting
- Gutters and Downpipes
- Formwork Decking
- Custom Flashings

REGISTERED DESIGNS

Stramit® Fascia, fascia bracket, all gutter stiffener brackets, Stramit® Barge Gutter and Stramit Compact Gutter® gutter are protected in Australia by registered designs.

REFERENCES

In preparing this document reference has been made to:

- Standards Australia Handbook – HB39 (Installation code for metal roof and wall cladding)
- BlueScope Steel – Technical Bulletin TB-4 (Maintenance of COLORBOND® prepainted steel roofing)
- BlueScope Steel – Technical Bulletin TB-15 (Steel gutter and downpipe products - selection and use)

CONTACT US

Visit **stramit.com.au** or contact us using the details below.

REGION	LOCATION	CONTACT DETAILS	BRANCH OPENING HOURS
NSW & ACT	SYDNEY 33-83 Quarry Rd, Erskine Park NSW 2759	Ph 02 9834 0909 Fax 02 9834 0955	7.30am - 5pm
	CANBERRA 4 Bass St, Queanbeyan NSW 2620	Ph 02 6298 2500 Fax 02 6298 2533	7.30am - 5pm
	COFFS HARBOUR 6 Mansbridge Dr, Coffs Harbour NSW 2450	Ph 02 6656 3800 Fax 02 6656 3808	7.30am - 5pm
	NEWCASTLE 17 Nelson Rd, Cardiff NSW 2285	Ph 02 4041 3400 Fax 02 4041 3423	7.30am - 5pm
	ORANGE 51 Leewood Dr, Orange NSW 2800	Ph 02 6360 9200 Fax 02 6360 9211	7.30am - 5pm