

GUTTER OVERFLOW PROVISIONS

It is important when designing a roof drainage system that appropriate overflow measures are considered in order to ensure water does not flow back into the building. This is particularly important for the most commonly used eaves gutters which are high fronted and designed to hide the lower edge of the roof tiles or cladding. This often results in the front edge of the gutter sitting at or above the top of the fascia level.

This document has been developed by Stratco for compliance with the current version (NCC 2019) of the Building Code of Australia (BCA) - Volume 2 which requires that adequate overflow measures are applied. This requirement ensures overflow resulting from rainfall calculated at a 5 minute rainfall intensity duration, for a 100 year average recurrence interval (refer Table 1.0), is diverted away from the building. Information taken from the NCC 2019 BCA - Volume 2 has been included (Table 2.0) to allow the appropriate overflow volumes to be calculated in order to apply a selection of acceptable overflow measures. These measures may be applied individually or in combination to achieve the required overflow capacity.

RESPONSIBILITY OF THE DESIGNER

It is the responsibility of the designer of the rainwater goods system (who may be the architect, builder, hydraulic engineer, home owner, roofing or guttering contractor) to design a rainwater system which allows adequate drainage to occur.

The design and installation of guttering and downpipe systems needs to comply with the Building Code of Australia and Australian Standards AS/NZS 3500.3 Plumbing and Drainage, Stormwater Drainage.

RESPONSIBILITY OF THE INSTALLER

It is the responsibility of the installer to ensure that the project is installed as required by the rainwater goods designer. Adequate fall towards the downpipes must be given to gutters (a minimum of 1 in 500 for eaves gutters and 1 in 200 for internal gutters).

The installer must ensure that the correct number of downpipes of sufficient size are installed, that they are clear of debris and able to discharge correctly.

MAINTENANCE

Regular maintenance is essential to maintain the good looks of all Stratco steel products and to ensure you receive the maximum life-span possible in your area. Gutter systems must be regularly cleaned to prevent the build up of leaf debris, fungus or any other material that could prevent the free drainage of water from the roof and gutter system.

Refer to the Stratco 'Selection, Use and Maintenance' brochure for further information.

CONTINUOUS OVERFLOW REBATE FASCIA (WA)

CONTINUOUS OVERFLOW REBATE FASCIA

Attractive fascia that tightly integrates with the gutter system. Benefitting from a functional rebate 'ledge' that houses the gutter system, Stratco Continuous Overflow Rebate Fascia adds further stability by tightly integrating the fascia and the gutter together.

CONSISTENT QUALITY

Unlike timber, you will not experience warping, bowing, knots or cracking. Instead you will receive a consistent, trouble free and easy to maintain, steel product.

Rebate Fascia has been designed and tested to comply with the relevant Australian Standards.

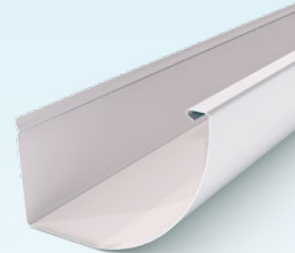
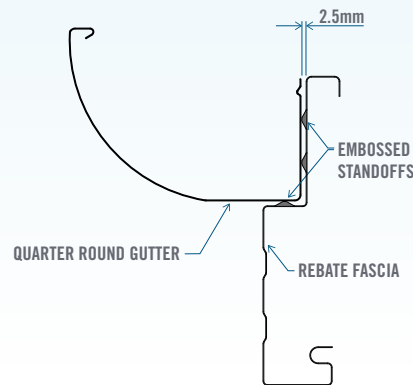
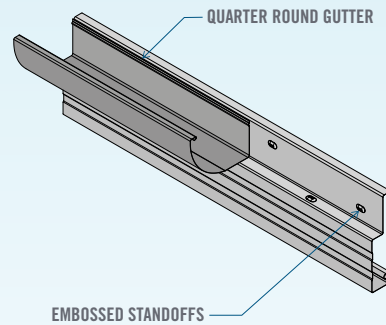
SIMPLE INSTALLATION

Installing Continuous Overflow Rebate Fascia on a new or existing home is easy because the Rebate Fascia system is compatible with normal building construction. The Rebate Fascia system uses a sturdy end fix bracket which has been specially designed for a quick construction and to eliminate damage to fascia.

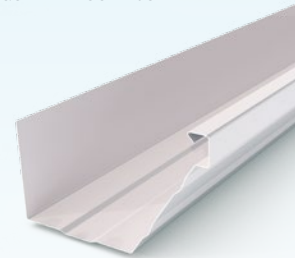
CONTINUOUS OVERFLOW SOLUTION

The perfect solution to create a consistent gap between the gutter and fascia, embossed standoffs allow water to escape through the gap rather than entering the building.

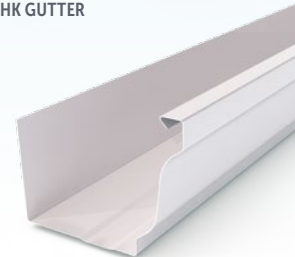
When used with the Quarter Round, HK and S Gutters, the Continuous Overflow Rebate Fascia offers a continuous overflow capacity of 0.5L/s/m.



QUARTER ROUND GUTTER



HK GUTTER



S GUTTER

TABLE 1.0 - DESIGN RAINFALL INTENSITIES (mm/h)

AVERAGE RECURRENCE:
 ONCE IN 100 YEARS (EAVES GUTTER OVERFLOW MEASURES)

LOCATION	5 MINUTE DURATION RAINFALL INTENSITY (mm/h)
ALBANY	178
BUNBURY	199
GERALDTON	193
KALGOORLIE	204
PERTH	172
JOONDALUP	180
MIDLAND	163
TOM PRICE	182

NOTE:

- Data obtained from NCC 2019 BCA - Volume 2
- Data for any locality in Australia is available from the Bureau of Meteorology.
- All gutters & outlets need to be regularly inspected and maintained to avoid blockages.

TABLE 2.0 - CONTINUOUS OVERFLOW VOLUME (L/s/m)

RAINFALL INTENSITY (mm/h) (from Table 1.0)*	RIDGE TO GUTTER LENGTH (m)					
	2	4	6	8	10	12
150	0.08	0.17	0.25	0.33	0.42	0.50
175	0.10	0.19	0.29	0.39	0.49	0.58
200	0.11	0.22	0.33	0.44	0.56	0.67
225	0.13	0.25	0.38	0.50	0.63	0.75
250	0.14	0.28	0.42	0.56	0.69	0.83
275	0.15	0.31	0.46	0.61	0.76	0.92
300	0.17	0.33	0.50	0.67	0.83	1.00

*Round value up to nearest 25mm/hr increment



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How To.

