

## PLUMBING PRACTICE NOTE

### Roof (Stormwater) Plumbing RP 03 | Eave Gutters

#### Audience

The audience/s for this Practice Note include/s:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Architects/ Designers          | <input checked="" type="checkbox"/> Owner Builders                  |
| <input checked="" type="checkbox"/> Builders                       | <input checked="" type="checkbox"/> Plumbers                        |
| <input checked="" type="checkbox"/> Building Surveyors/ Inspectors | <input type="checkbox"/> Real estate management agents              |
| <input type="checkbox"/> Engineers                                 | <input type="checkbox"/> Trades and Maintenance (inc. Electricians) |
| <input type="checkbox"/> Home Owners / Residential Tenants         |   |

#### Purpose

This Practice Note provides guidance on requirements for the installation of eaves gutters.

The content below provides guidance on:

- Defining an eaves gutter
- Materials and products fit for purpose
- Gutter installation examples



For guidance on regulatory framework, please refer to Practice Note: Roof Plumbing- RF 01 | Regulatory Framework

### Abbreviations & Definitions

The abbreviations and definitions set out below are for guidance only. They are not intended to vary those set out in the Building Act 1993, the Building Regulations 2018 or the National Construction Code.

- **Act** – Building Act 1993
- **NCC** – National Construction Code 2022
- **Regulations** – Building Regulations 2018

## Defining an eaves gutter

An eaves gutter is defined as a gutter which is installed on a fascia board, external of the building and attached to an eaves overhang.

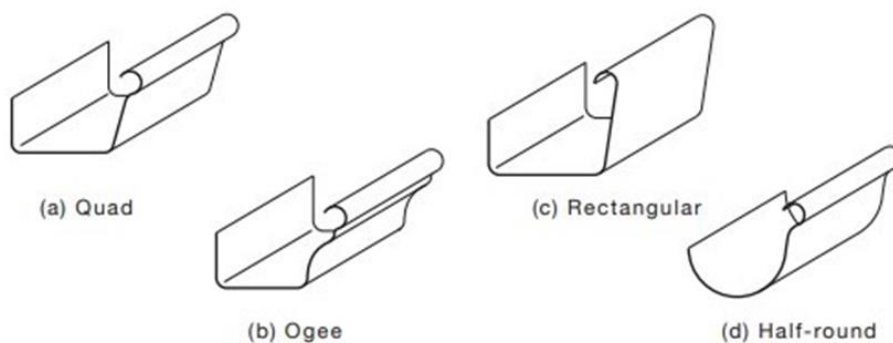


FIGURE 5.6(A) TYPICAL EXTERNAL EAVES GUTTERS

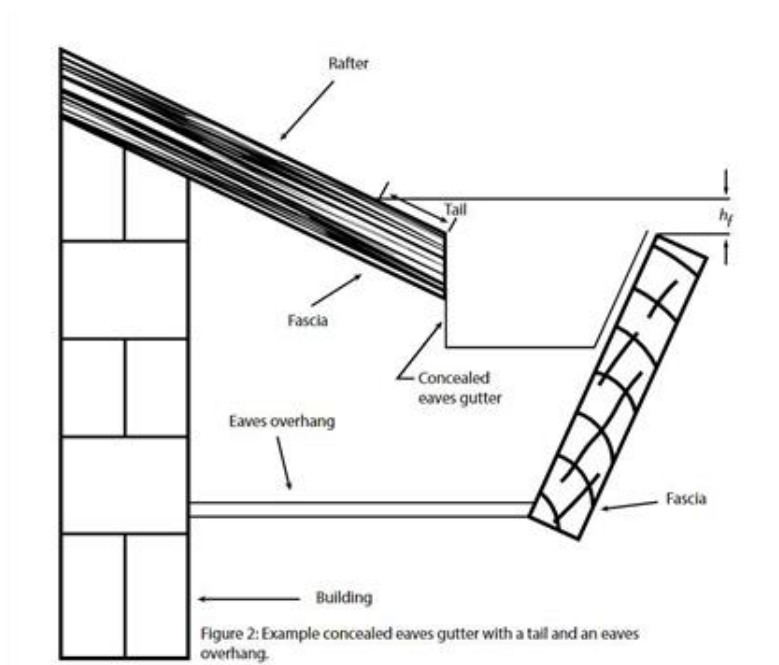
Figure 1: Typical external eaves gutters, referenced from HB39, Figure 5.6(A).

**Figure 1:** Typical external eaves gutters, referenced from HB39, Figure 5.6(A).

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A concealed eaves gutter is an eaves inside a fascia and has an eaves overhang.

Figure 2 shows a concealed eaves gutter is external of the building.



**Figure 2:** Example concealed eaves gutter with a tail and an eaves overhang, referenced from AS/NZS 3500.3 Figure F1(d).

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## Materials and products fit for purpose

A roof system may consist of various types of materials that are interconnected to ensure protection to the building. When considering the type of roofing material used you must ensure the product and material selected is fit for purpose.



For guidance on the acceptability of the direct contact between different types of metals or the acceptability of drainage from an upper surface to a lower metal surface, please refer to Practice Note: RP-01 Regulatory framework.

## Gutter installation examples

As per Figure 3 you must ensure that:

- the eaves gutter is adequately supported to guarantee that the support system can bear the total weight of the gutter when the gutter is full of water
- when securing the eaves gutter the brackets must securely attach the gutter to the building at stop ends and between stop ends, not exceeding 1200mm
- the eaves gutter does not exceed 20m without provision for expansion.

It is important when considering the design of the eaves gutter that incorporates overflow provisions for the entire length of. There are various types of design methodologies for overflow provisions, as demonstrated within Figure 3.

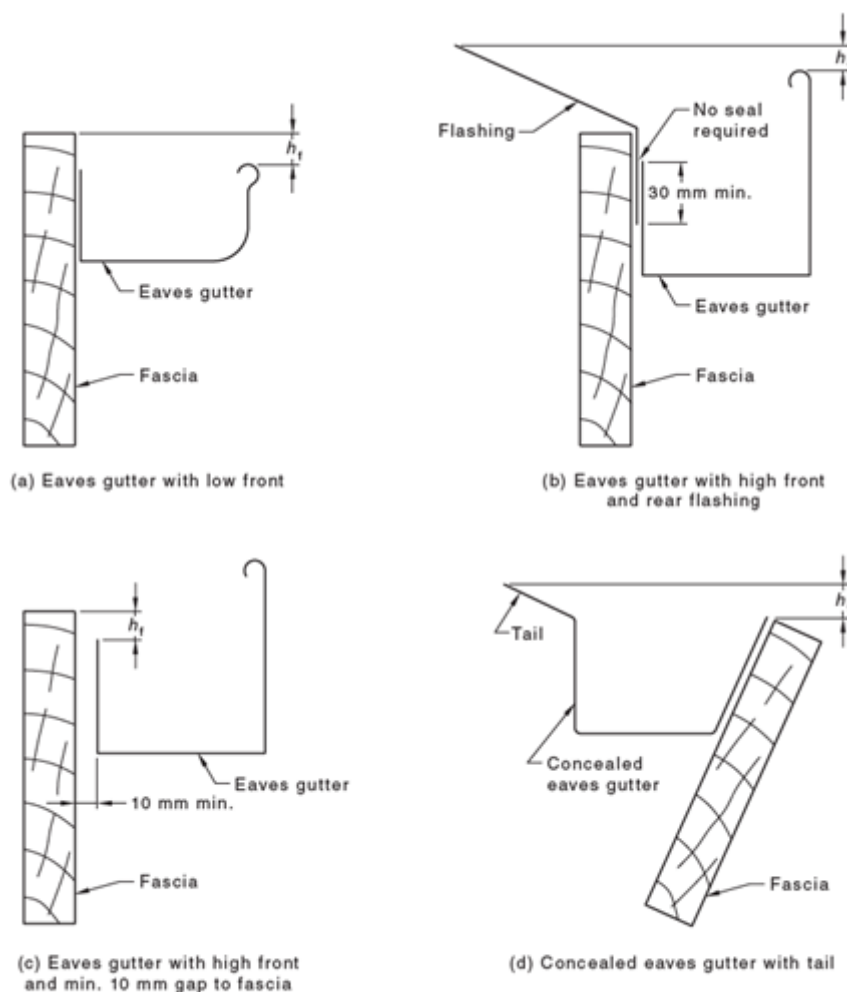


Figure F.1 — Eaves gutter overflow methods

**Figure 3: Eaves gutter overflow methods, AS/NZS 3500.3 Figure F1 (a)-(d).**

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These are examples of suggested overflow allowance methods.



The performance requirements of the NCC can also be met by a performance solution. Refer to the NCC on the requirements to develop a performance solution.

**Related Documentation**

- Plumbing Regulations 2018
- National Construction Code, Volume 3, Plumbing Code of Australia (PCA) 2022: VIC Part E3
- AS/NZS 3500.3:2021 Part 3: Stormwater Drainage
- HB 39:2015 Amd 1:2021 Installation code for metal roofing and cladding



## List of Amendments

- NCC 2022 amendments
- Updated format and content review

## Document history

|                        |  |
|------------------------|--|
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| <b>Category</b>        | Roof Plumbing  |
| <b>Topic</b>           | Eaves gutters  |
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## Contact Us

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