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Scope

This document is not intended to serve as an exhaustive installation manual, rather, it is designed to provide clarification, across a number of specific roof installation components, to ensure compliance with roofing installation standards.

This guidance has been compiled, utilising the reference documents listed below, to ensure installation compliance with NCC 2022 and AS 1562.1:2018 Design and Installation of Sheet Roof and Wall Cladding - Metal.

Reference Documents

<https://cdn.dcs.lysaght.com/download/lysaght-novaline-fascia-system-brochure>

<https://cdn.dcs.lysaght.com/download/topspan-design-and-installation-guide-for-building-professionals>

https://www.bradfordinsulation.com.au/-/media/bradford/files/anticon-residential-install-guide_method-1_vertical-rollout-over-battens.pdf

<https://eurekainsulation.com.au/wp-content/uploads/2025/06/Installation-Guide-Metal-Roofing-PerformINS-HD-Plus-Blanket.pdf>

<https://cdn.dcs.lysaght.com/download/lysaght-product-advisory-bulletin-pab19-high-level-roof-ventilation-installation>

<https://cdn.dcs.lysaght.com/download/lysaght-product-advisory-bulletin-pab20-low-level-roof-ventilation-installation>

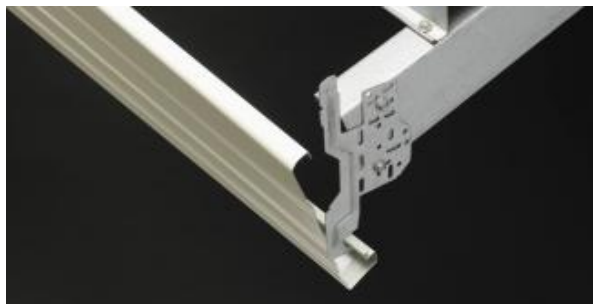
<https://cdn.dcs.lysaght.com/download/lysaght-roofing-walling-installation-manual>

SA HB39:2015

Fascia

- Fascia brackets to be attached to rafters at 1,200mm (maximum centres).
- Use a minimum of 2 fasteners (Hex Head screws; self-drilling screw for steel, or Type 17 for timber into the pre-punched holes and slots to secure to the rafter.

<https://cdn.dcs.lysaght.com/download/lysaght-novaline-fascia-system-brochure>

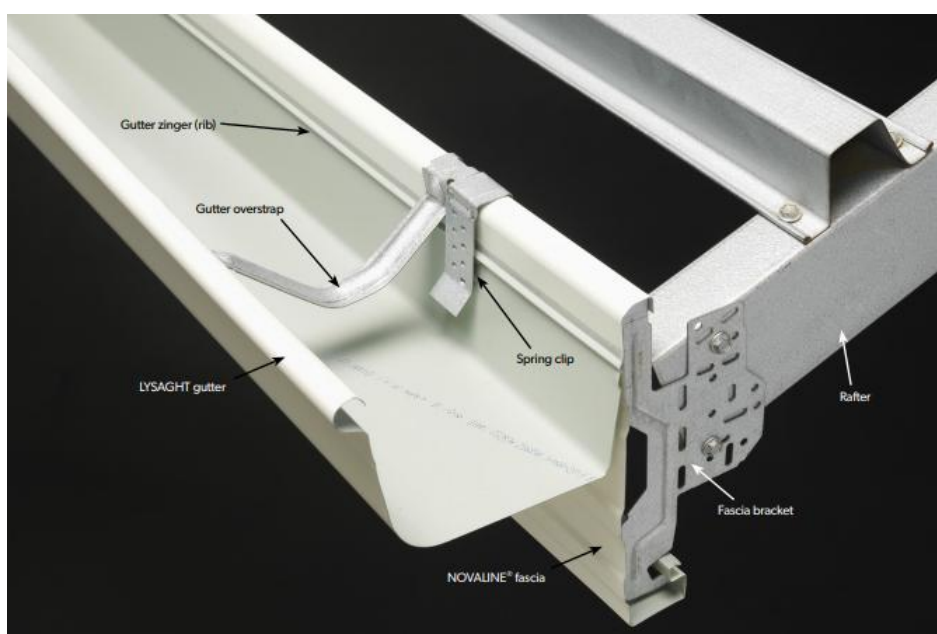


Gutter

- The spring clips are to be located beside a NOVALINE® fascia bracket at 1200mm (maximum) centres and sit firmly on top of the fascia.
- Gutter to retain a fall of 1 in 500 (min).
- Unless specifically noted otherwise, the over straps can be located beside the clips / fascia bracket assembly, or midway between the clips, at 1200mm (maximum) centres.

<https://cdn.dcs.lysaght.com/download/lysaght-novaline-fascia-system-brochure>

- Exact location of downpipe pops to be confirmed with Builder Supervisor prior to installation.
- All laps and corners to be **under** and **over** sealed

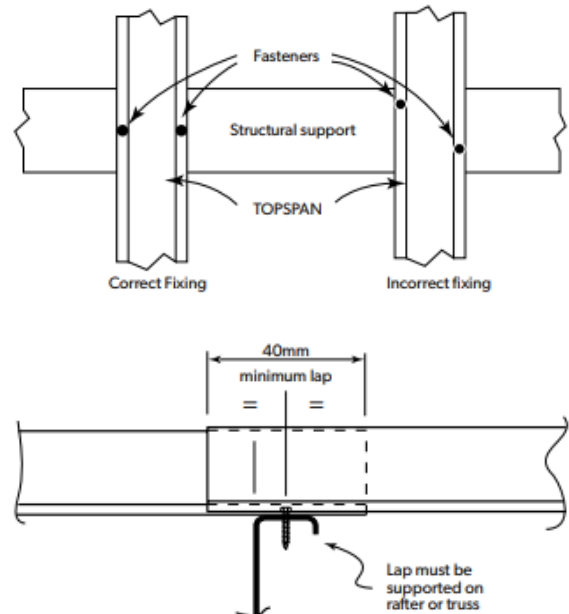


Battens

- Spacing at 900mm centres
- Minimum of two fixings per structural support

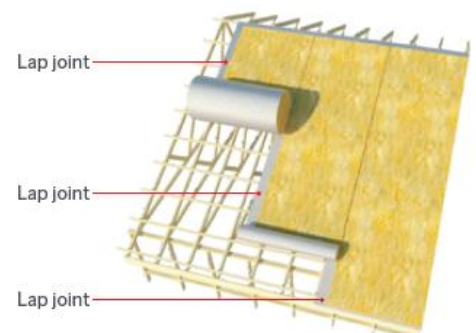
<https://cdn.dcs.lysaght.com/download/topspan-design-and-installation-guide-for-building-professionals>

- Lapping should be over a structural support
- Non-Structural Lap is a nominal length of 40mm to simplify the installation detailing. There is no stitching together at the ends of the lap. This lap does not provide continuity.



Insulation

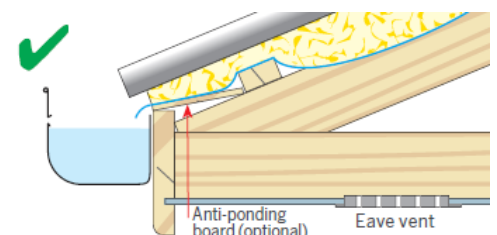
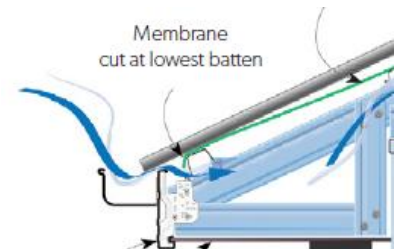
- Start on the lower side of the ridge batten.
- All lapping to be a minimum of 150mm and taped – Peel off 150mm of bulk insulation and lap in a cascading fashion



Fascia & Gutter

- End the roofing blanket at the lowest batten, short of the fascia
- Allowing the blanket to be excessively long and drape into the gutter may lead to rain or moisture being drawn back onto the bulk insulation in the roof cavity. This could result in corrosion to the cladding and damage to the roof structure, voiding the product warranty.

NOTE: Where specifically requested by Builders / certifiers, either trimmed blanket or a 300mm strip of sarking is to be fitted over the lower batten and run into the gutter, minimum overhang of 40mm



https://www.bradfordinsulation.com.au/-/media/bradford/files/anticon-residential-install-guide_method-1_vertical-rollout-over-battens.pdf

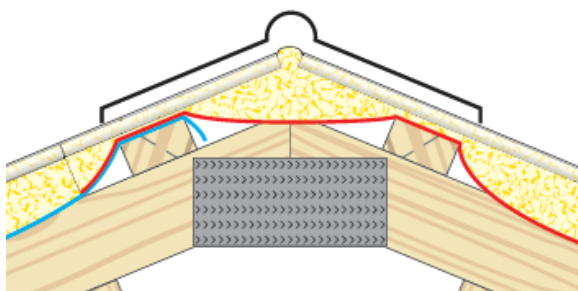
Valleys

- Trim any extra blanket material that meets the valley flashing to minimize the chance of the bulk insulation edge touching the valley water path.

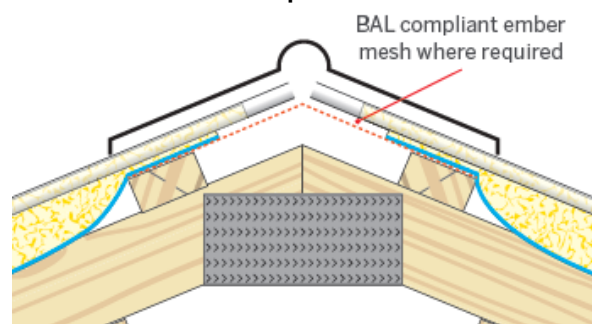
Penetrations

- Cut Roofing Blanket to the throat size of the ventilator. Tape the foil to the vent to ensure a proper seal.

Ridge – No NCC2022 ventilation required



Ridge – NCC2022 ventilation required



<https://eurekainsulation.com.au/wp-content/uploads/2025/06/Installation-Guide-Metal-Roofing-PerformINS-HD-Plus-Blanket.pdf>

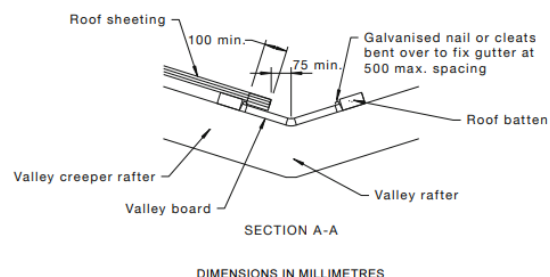
<https://cdn.dcs.lysaght.com/download/lysaght-product-advisory-bulletin-pab19-high-level-roof-ventilation-installation>

<https://cdn.dcs.lysaght.com/download/lysaght-product-advisory-bulletin-pab20-low-level-roof-ventilation-installation>

Valleys

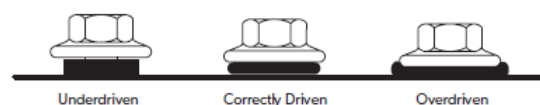
- Minimum 100mm sheet coverage over each valley side
- Minimum 150mm gap between sheets on either side of valley

Guidance: SA HB39



Sheeting

- Endeavour to verify framework pitch matches plans and nominated roof profile
- Fasteners with sealing washers should be tightened only until the washer is gripped firmly enough to provide a weathertight seal.



- Strict adherence to the number of fasteners per batten, per sheet width of roofing sheet or clip.
- Crest fastening for roof application

Crest fixing and side-lapping.



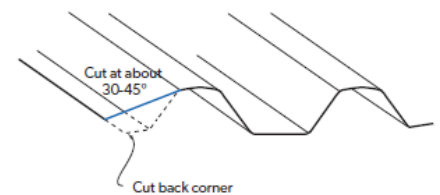
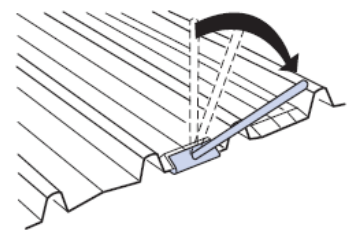
- All roofing on slopes below 1 in 2 (25°) should be turned-up.
- When wide tray sheeting is used on roof slopes below 1 in 5 (10°) the end of the trays at the low end of the sheeting should be turned down slightly with a turn-down tool.

- 50mm overhang into gutters

- For sheeting laid on slopes of 5 degrees or less, the underlap lip of the under-sheet is required to be cut back on the corner at the downhill discharge end (gutter end), of the sheet, to block capillary action

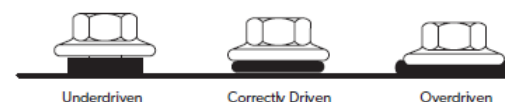
<https://cdn.dcs.lysaght.com/download/lysaght-roofing-walling-installation-manual>

Turning-down the gutter end.



Ridges

- Fasteners with sealing washers should be tightened only until the washer is gripped firmly enough to provide a weathertight seal.
- To be fixed to sheeting, on both sides, every 4th rib



Flashings

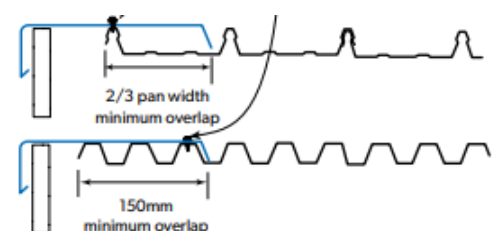
- Strict adherence to the number of fasteners per rib of sheeting
- Otherwise, fixing spacing should be no greater than 500mm centres

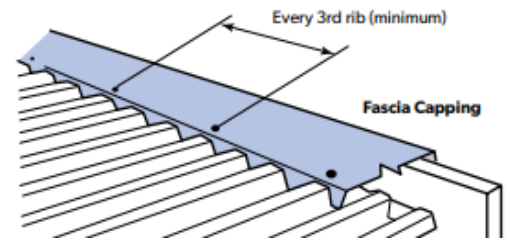
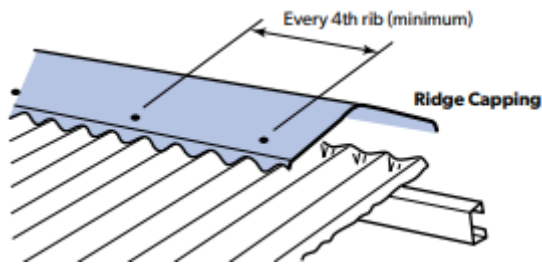
Profile	Rib
CUSTOM ORB®	Every 4th
TRIMDEK®	Every Rib
SPANDEK®	Every 3rd
KLIP-LOK 700 HI-STRENGTH®	Every Rib
KLIP-LOK CLASSIC® 700	Every Rib
KLIP-LOK® 406	Every Rib

Flashing cover - The minimum recommended cover of longitudinal flashings over cladding should be as follows:

1. Pierce-fixed roof sheet = 150mm
2. Concealed fix roof sheet = into full pan, over rib, with 2/3 pan coverage
3. Always screw fix into the top of the rib

<https://cdn.dcs.lysaght.com/download/lysaght-roofing-walling-installation-manual>





Box Gutters

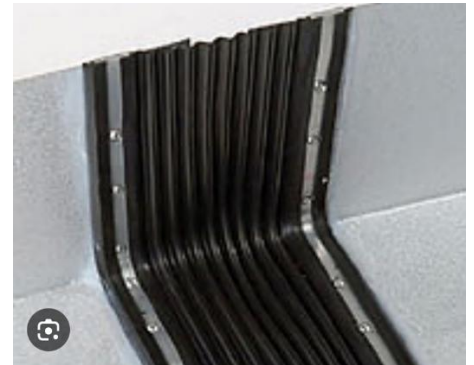
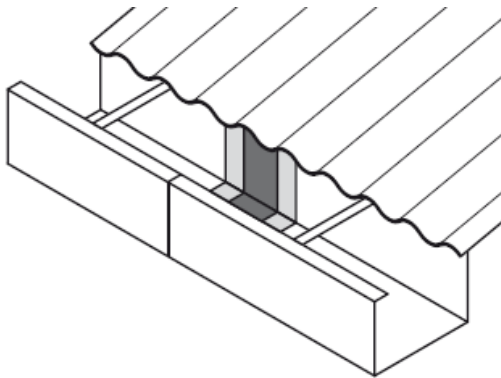
It is assumed that the Builder has taken all required steps to design the box gutter and supporting framework in accordance with AS/NZS 3500.3 to effectively collect and discharge all roof water with an overflow risk of 1 in 100 years.

- Endeavour to verify framework provides one-way and consistent fall (1 in 200 towards the outlet)
- Sheets running into box gutters are to overhang by > 50mm and turned down 20mm at 45°
- Joints are to be both under and over-sealed
- Maximum length between expansion joints = 15m
- Minimum expansion space of joint = 50mm
- Synthetic rubber expansion joints require a “staggered” rivet pattern with 40mm spacings with two lines

TABLE 5.3.2

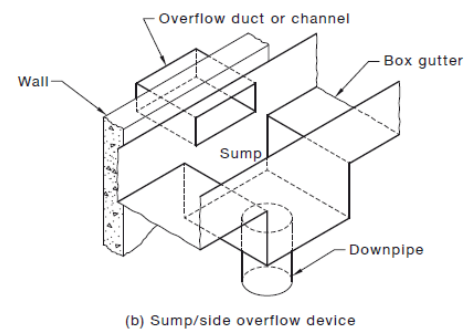
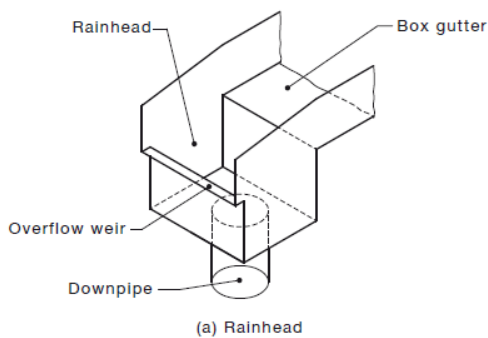
BOX GUTTERS—RECOMMENDED MAXIMUM LENGTH BETWEEN EXPANSION JOINTS AND MINIMUM EXPANSION SPACE

Material	Base metal thickness mm	Maximum length between expansion joints m	Minimum expansion space mm
Aluminium	0.90 1.00	12 12	50
Copper	0.60 0.80 1.00	9 15 26	50
Steel	0.42* 0.55* 0.75*	15 20 25	50
Stainless steel	0.55	20	50
PVC	—	10	30
Zinc	0.80	10	50



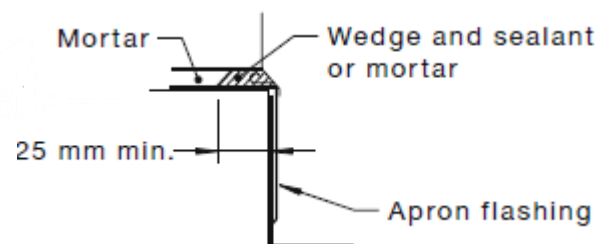
- Flash under sheets and into the box gutter to eliminate capillary leaks and form a break against driven rain

Guidance: SA HB39



Chase Flashing

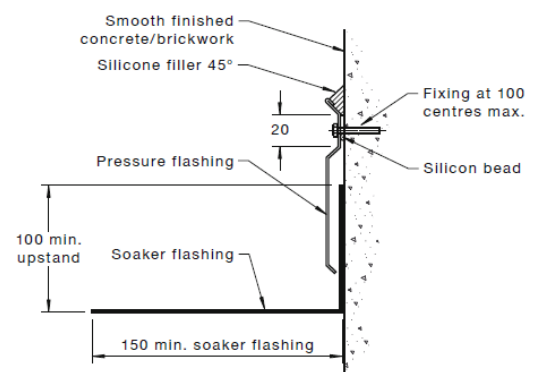
- To be used in combination with an apron flashing
- Wedge and silicon seal at a minimum of 25mm into the mortar



Pressure Flashing

- To be used in combination with a minimum 150mm soaker flashing
- Underseal the soaker flashing to the wall as an added moisture barrier
- Despite the potential to compromise the brickwork structural integrity, fixings into the wall are to be at 100mm centres

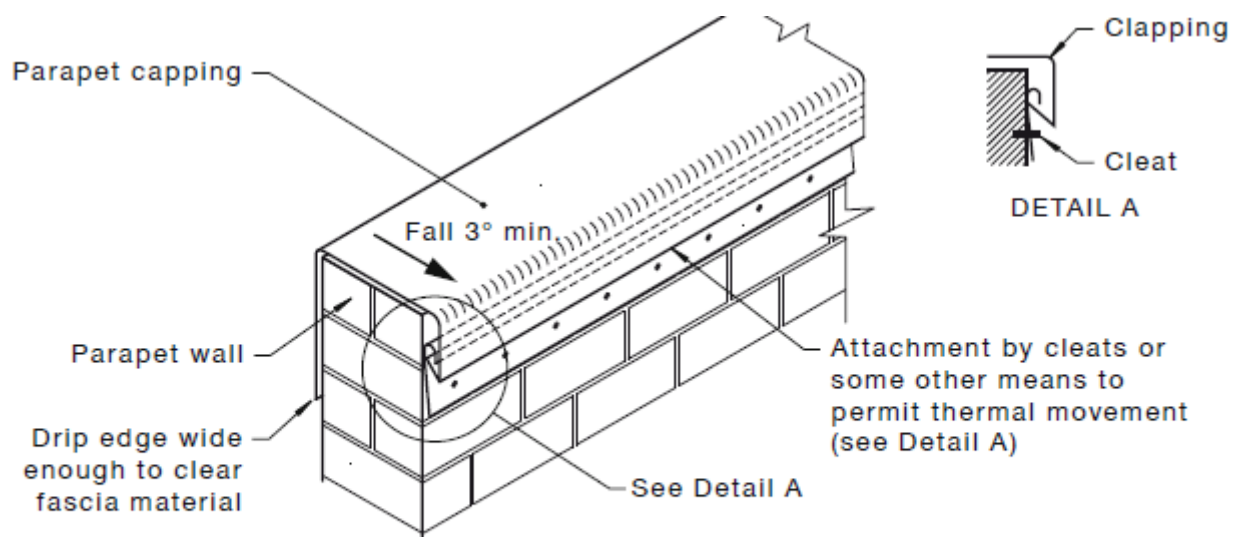
Guidance: SA HB39



Parapet Flashings

- Ensure a fall of 3° from the interior to the exterior of the wall
- Two-piece system with locking angle or cleats to allow thermal movement

Guidance: SA HB39



(c) Parapet capping

Penetrations

- Always use the appropriately sized Dektite® around the pipe
- Never fit the penetration to a lap in the sheeting – Liaise with the Building Supervisor to ensure the penetration can be moved to the nearest pan or rib. Plumbers will need to relocate the internal pipe
- Do not dam any valleys or pans so that rainwater can drain freely from the high side of the roof penetration.

<https://cdn.dcs.lysaght.com/download/lysaght-roofing-walling-installation-manual>

Small penetration with sleeve. (Dektite® sleeve illustrated).

