

FasciaFlo System

Context

The FasciaFlo vent is designed to meet the requirements of the NCC 2019 Building Code of Australia - Volume Two, specifically section 3.8.7.3 (b) (l) as follows;

3.8.7.3 Flow rate and discharge of exhaust systems; (Stale Air)

- a. An exhaust system installed in a kitchen, bathroom, sanitary compartment or laundry must have a minimum flow rate of
 - i. 25 L/s for a bathroom or sanitary compartment; and
 - ii. 40 L/s for a kitchen or laundry.
- b. Exhaust from a bathroom, sanitary compartment, or laundry must be discharged
 - i. directly or via a shaft or duct to outdoor air; or
 - ii. to a roof space that is ventilated in accordance with 3.8.7.4.

Duct chamber mounted into fascia



Vent cover plate fitted to face of fascia



Scope

The FasciaFlo vent system consists of two components, the 'Duct chamber' and the 'Vent cover plate'. The duct chamber is inserted into the back of the FasciaFlo and sits within the perimeter of the fascia profile and provides the mechanism for attaching the flexible duct to the outlet point. The vent cover plate is installed to the outer face of the fascia and provides aesthetic completion of the installation and the means of meeting the BAL requirements. The ventilation exhaust slots are not greater than 2mm and therefore meet the requirements of AS3959:2018, section 8.6.6 (e) and section 3.6.1 for use on BAL 12.5 – BAL 40.

Purpose

The purpose of this design is to provide an alternative means of ducting extraction fans to the atmosphere that is not currently available in the context of a domestic home with eaves or no eaves. To date the industry has been installing vent pipes onto roof surfaces to facilitate ducting of exhaust system discharge to the atmosphere on these types of dwellings. However, the installation of this fascia vent is not limited to dwellings with no eaves.

The FasciaFlo vent system provides a means of ducting to the atmosphere by positioning the duct outlet at the fascia beneath the eaves gutter and between the trusses in a compact area. The duct chamber provides an expansion zone and interface between the round flexible duct and the rectangular vent cover plate. The vent cover plate openings exceed the area of the duct ensuring that there is no reduction in flow volume.

Benefits

- Removal of unsightly vent tubes on the roof service visible from the street
- · Reduced risk of roof leaks through reduced roof penetrations
- Reduced risk when installing the flexible duct to the vent outlet through easy access at top plate height as opposed to being positioned high in the roof frame as is the case with a roof vent
- Installed by fascia & gutter fitter further reducing height safety concerns often found with the roof vent system when being installed after edge protection has been removed
- · Fewer installation fixings compared to roof vents
- Color matched to the fascia reducing visual impact
- Potential reduction in length of flexible ducting as most sanitary compartments are near outer walls
- · Can be installed to dwellings with eaves and without eaves
- · Can be installed to dwellings with all roof types

Conclusion

There is no other product available currently that is able to be installed into the fascia below the eaves gutter and that provides an interface between the flexible duct and a vent outlet.

FasciaFlo Vent Components

Installation method

All Metal

FasciaFlo vent is to be located between two trusses adjacent to the extraction fan position (marked on plan). Cut a hole in the front face of the fascia 110mm high from the bottom edge of the fascia and 380mm in length. Cut 15mm out of the bottom of the fascia so that the hole opening continues under the fascia. Insert the duct chamber into the rear of the fascia and place the vent cover plate over the outside opening, use a spring clip on end of the duct chamber to hold the chamber in place. Fit the flexible duct over the flange on the rear of the duct chamber to complete the installation process.

Note: Duct connection to exhaust fans by Electrical contractor in accordance with AS 4254.1:2012

BAL. requirements:

The ventilation exhaust slots are not greater than 2mm and therefore meet the requirements of AS 3959:2018, section 3.6.1 for use on BAL 12.5 – BAL 40





FasciaFlo Vent Chambers

Duct Chamber Manufacture Dimensions







Vent Cover Plate Manufacture Dimensions





FasciaFlo Vent Installation Guide

Limitations of use

The FasciaFlo vent system is designed to convey air from a sanitary compartment extraction fan to the outside atmosphere external to a dwelling via a flexible 150mm duct, duct chamber and FasciaFlo vent cover discharging through the fascia below the eaves gutter. The FasciaFlo vent system is not designed to be used for any other purpose or other location than described above.

Installation method

- 1. FasciaFlo vent is to be located between two truss tails adjacent to the extraction fan position as marked on the plans.
- 2. For ease of installation the fascia should be installed first and the hole for the vent cut prior to installing the eaves gutter.
- 3. Cut a hole in the front face of the fascia 110mm high from the bottom edge of the fascia and 380mm in length. Cut 15mm out of the bottom of the fascia so that the opening continues under the fascia. Cut the inside 10mm top edge of the fascia to allow the duct chamber to be inserted into the rear of the fascia. (Cut details per installation diagram (1)).
- 4. Insert the duct chamber (diagram 2) into the rear of the fascia. Ensure that the duct chamber opening aligns with the opening previously cut in the fascia. Install spring clips one each side of the duct chamber to secure it in place.
- 5. Place the vent cover plate (diagram 3) over the outside of the fascia, ensure that the ventilation slots are not obstructed by any part of the fascia opening or duct chamber. Secure the cover plate with 2 rivets, one on each at the top edge.
- 6. Fit the flexible duct over the flange (diagram 4) on the rear of the duct chamber. Use duct tape to seal the flexible duct to the flange. Use a Ziptite to lock the flexible duct to the duct flange on the rear of the chamber to complete the installation at the fascia end.



Flexible duct connection to exhaust fan

- 1. Flexible duct to be supported at maximum 1500mm centers. and with sags not greater than 40mm between supports.
- 2. Bend radius of flexible duct is not to less than the duct diameter, ie. 150mm duct diameter = minimum bend radius of 150mm.
- 3. Flexible duct connection to the exhaust fans should be carried out in accordance with AS 4254.1:2012. Generally, the connection is completed at the same time as the extraction fan installation by a qualified electrician.

BAL. requirements:

The ventilation exhaust slots are not greater than 2mm and therefore meet the requirements of AS 3959:2018, section 8.6.6 (e) and section 3.6.1 for use on BAL 12.5 – BAL 40