

METAL CLADDING DESIGN AND INSTALLATION TECHNICAL GUIDES

GUIDE 022: PROFLED FILLER BLOCKS

Filler blocks provide a means for closing off the cavities created when a section of a profiled sheet is lapped by a flat flashing trim, e.g. Ridge and Eaves. They serve two main design criteria:

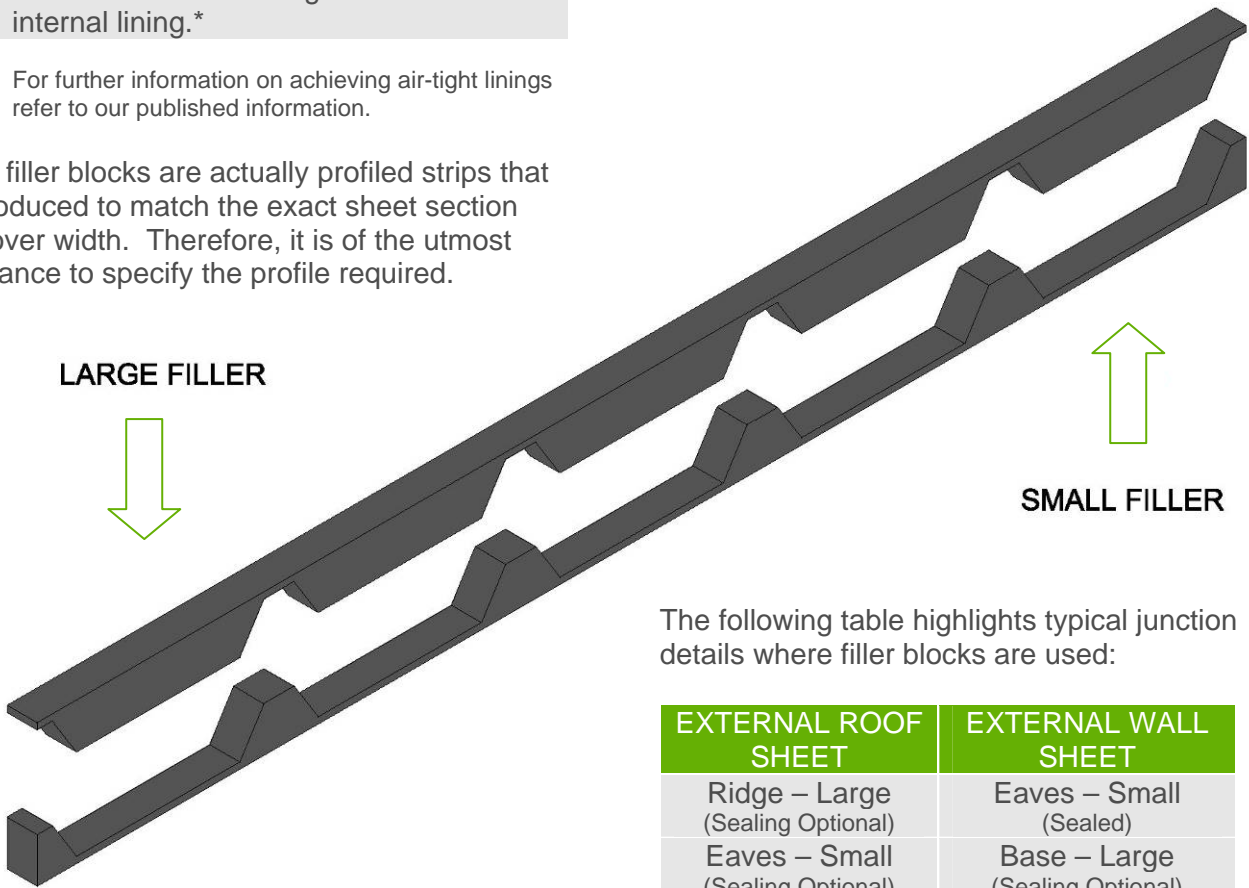
- 1) **EXTERNAL SHEET**
To prevent the entry of wind driven rain and debris.
- 2) **LINING PANEL**
To assist with the air-tightness of the internal lining.*

* For further information on achieving air-tight linings refer to our published information.

These filler blocks are actually profiled strips that are produced to match the exact sheet section and cover width. Therefore, it is of the utmost importance to specify the profile required.

Due to the asymmetric nature of most profiled sheeting, it is also important to specify whether 'large' or 'small' section strips are required (see diagram below).

Note:
In the case of gable end walls the junction between the wall cladding and verge flashing will be raked to suit the roof pitch. Alpha Clad filler blocks can be supplied cut to suit this rake.



The following table highlights typical junction details where filler blocks are used:

| EXTERNAL ROOF SHEET | EXTERNAL WALL SHEET |
|-------------------------------------|------------------------------------|
| Ridge – Large (Sealing Optional) | Eaves – Small (Sealed) |
| Eaves – Small (Sealing Optional) | Base – Large (Sealing Optional) |
| INTERNAL ROOF LINING | INTERNAL WALL LINING |
| Ridge – Small (Sealed) | Eaves – Small (Sealed) |
| Eaves – Small (Sealed) | Base – Small (Sealed) |

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Passive Ventilation

If passive ventilation between the insulation quilt and external sheet profile is required to move moisture content from the roof cavity, filler blocks can be supplied 'notched'.

Durability

The majority of filler blocks are manufactured from either white closed cell polyethylene or black EPDM rubber offering anticipated life expectancy of 15 years for the former and 20 years + for the latter, having U.V. resistance ranging from good to excellent. The table below illustrates the correct material applications:

| FILLER BLOCK MATERIALS | |
|---------------------------------------|-----------------------|
| APPLICATION | FILLER BLOCK MATERIAL |
| External (Exposed to sunlight) | EPDM |
| External (Not exposed to sunlight) | POLYETHYLENE |
| Internal | POLYETHYLENE |

Specialist Filler Blocks

Singular trapezoidal blocks, flat strips, longitudinal trough infills and heavy density thermal break strips are also available through Alpha Clad. Although designed to fill the profile void in a similar manner to conventional filler block strips, these elements are manufactured from fire resistant rock fibre in order to meet fire performance and/or acoustic requirements

