

Product Data Sheet

Astro Clad Ventilated Fire Barrier

Revision 3 - September 2018



Astro Clad Ventilated Fire Barrier

Ventilated Fire Barriers

- Creates a ventilated fire barrier within rainscreen cladding.
- Tested on timber and masonry wall cladding.
- Suitable for ventilated cavities from 15mm.
- Independently fire tested to BS476: Parts 20 and 22, EN1363-1: 1999, EOTA TR31.
- 30-120 minutes rating (dependent on substrate).
- For either horizontal or vertical application.
- Improves cladding performance.



Product Description

Many rainscreen and cladding systems are designed with an open cavity to provide back ventilation. The cavity acts like an open chimney to allow for moisture dissipation and to create a back pressure to repel rain ingress.

However in a fire situation this chimney effect creates an open path for the hidden spread of fire both vertically and horizontally behind the cladding system.

The Astroflame range of fire rated cladding seals will maintain the ventilated cavity in normal conditions, leaving a continuous free air space, but in the event of a fire, the intumescent ventilated fire barrier will quickly expand to seal off the cavity to prevent the spread of fire.

Product Availability

Ventilated Fire Barriers for Cavities 15mm - 50mm

Many timber framed structures require a continuous ventilated to be maintained to dissipate moisture and prevent damp. Ventilated cladding fire seal (Silver) problems.

The Astroflame ventilated fire barriers have been tested in combustible timber constructions and can maintain the minimum 30 minute rating whilst allowing continuous ventilation in normal conditions.



Product code – AFFRCLAD35

Astro Clad – AFFRCLAD35 was designed to meet the NHBC requirements to maintain a minimum 15mm ventilation gap in timber frame constructions.

The product has been successfully fire tested in maximum size cavities of 25mm fitted directly onto combustible breather membrane and fixed into the timber structure to provide at least 30 minutes fire rating.

| Assessed Construction Type | Fire Rating | |
|----------------------------|-------------|----------|
| | Horizontal | Vertical |
| Timber Frame | 30 | 60 |
| Masonry, Concrete | 120 | 120 |

It can additionally achieve greater fire ratings in non-combustible structures

Size:

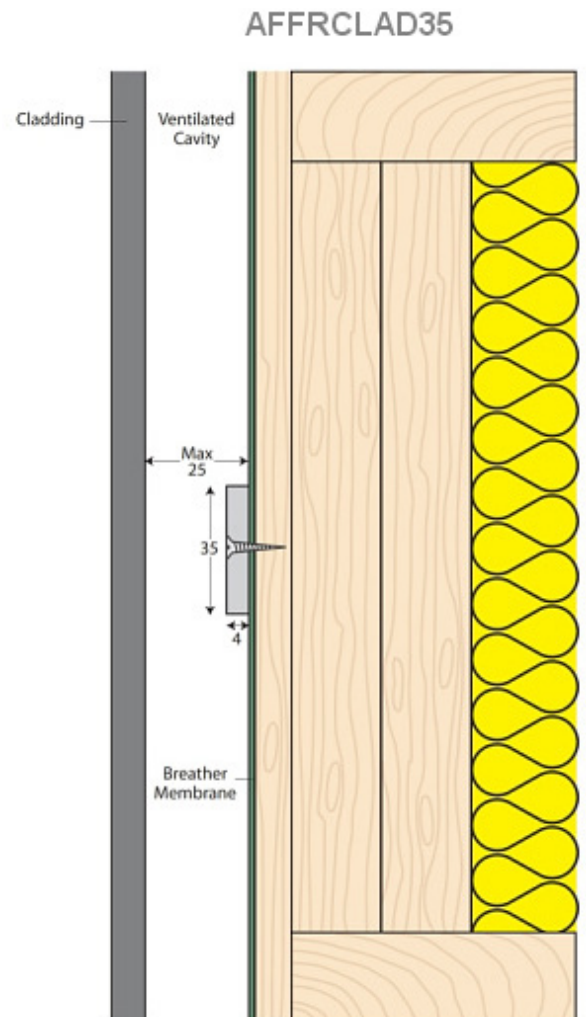
35mm x 4mm x1000mm encased in foil Maximum cavity size; 25mm
Maximum free area; 83%

Fire ratings:

Minimum 30 minutes in Timber Structures
120 minutes in Non-Combustible Structures

To Order:

Astro Clad Silver 35mm x 4mm x 1000mm AFFRCLAD35



Product Availability

Product code – AFFRCLAD75

Astro Clad- AFFRCLAD75 was developed following an increasing demand for a suitable product to close off larger cavities up to 50mm in timber frame constructions.

The product has been successfully fire tested in cavities up to a maximum of 50mm within both combustible timber structures and non-combustible structures to provide up to 120 minutes fire rating.

| Assessed Construction Type | Fire Rating | |
|-------------------------------|-------------|----------|
| | Horizontal | Vertical |
| Brick, Block, Masonry | 120 | 120 |
| Aerated Concrete Block | 120 | 120 |
| Kingspan Kit on Concrete | 120 | 120 |
| Kingspan Kit on Timber | 30 | 60 |
| Mineral Fibre on Concrete | 90 | 90 |
| Mineral Fibre on Timber Frame | 30 | 60 |
| Timber Frame | 30 | 60 |

Size:

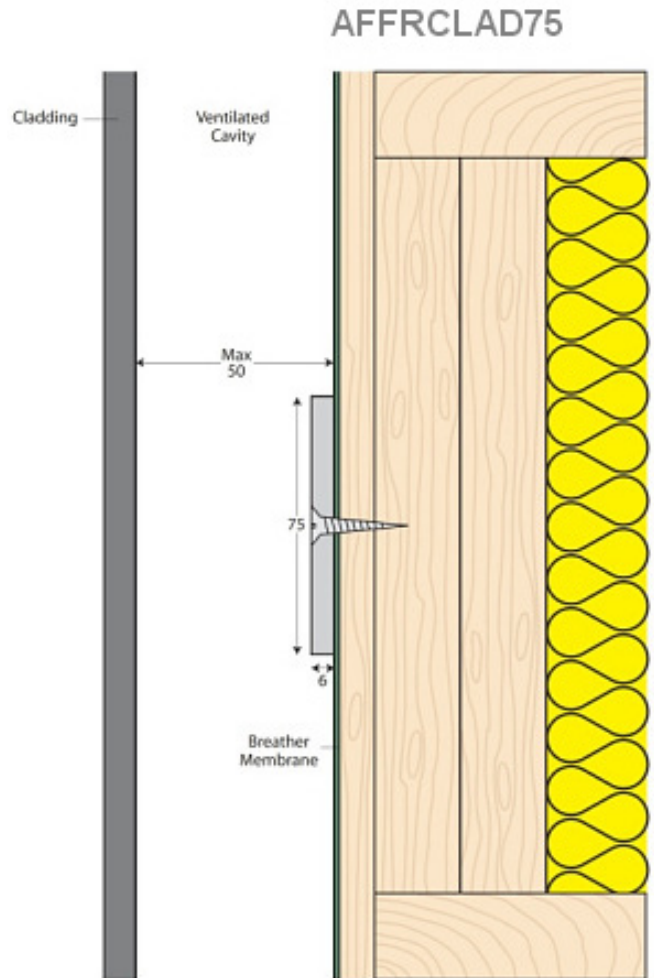
75mm x 6mm x1000mm encased in foil
Maximum cavity size; 50mm
Maximum free area; 87%

Fire ratings:

Minimum 30 minutes in Timber Structures,
90 minutes on mineral wool over cement board
120 minutes in Non-Combustible Structures

To order:

Astro Clad Silver 75mm x 6mm x 1000mm AFFRCLAD75



Product Availability

Ventilated Fire Barriers for Cavities up to & Over 125mm

Product code – AFFRCLAD5050

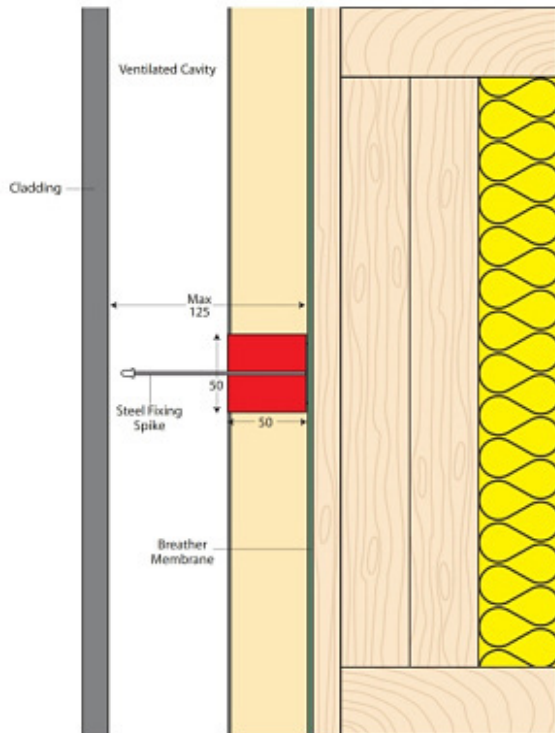
Astro Clad – AFFRCLAD5050 was designed to provide a large continuous open air space for cavities up to 125mm. The product has been successfully fire tested to a maximum cavity size of 125mm fitted directly onto combustible breather membrane and fixed into the timber structure to provide at least 30 minutes fire rating.

The fire barrier can also be fitted in between phenolic insulation panels to provide an effective fire barrier.

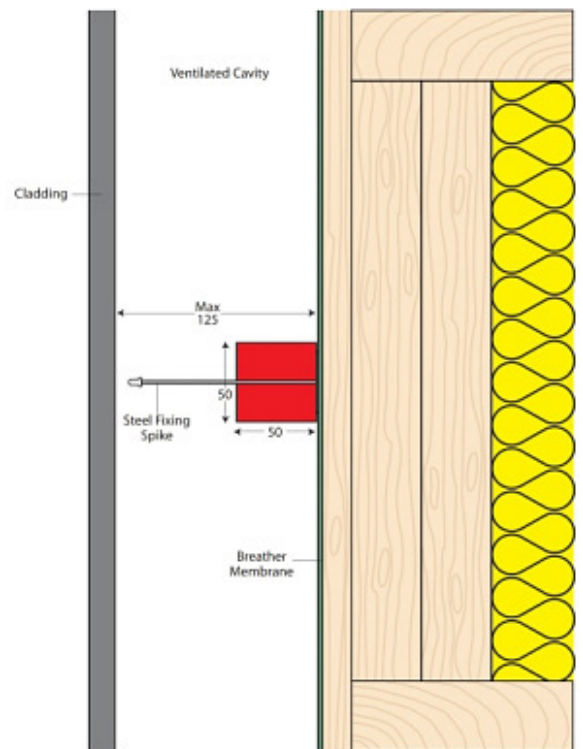
| Assessed Construction Type | Fire Rating | |
|----------------------------|-------------|----------|
| | Horizontal | Vertical |
| Timber Frame | 30 | 30 |
| Masonry, Concrete | 30 | 30 |



AFFRCLAD5050



AFFRCLAD5050



Size:
50mm x 50mm x 1000mm encapsulated in red polythene

Maximum cavity size:
125mm

Maximum free area:
60%

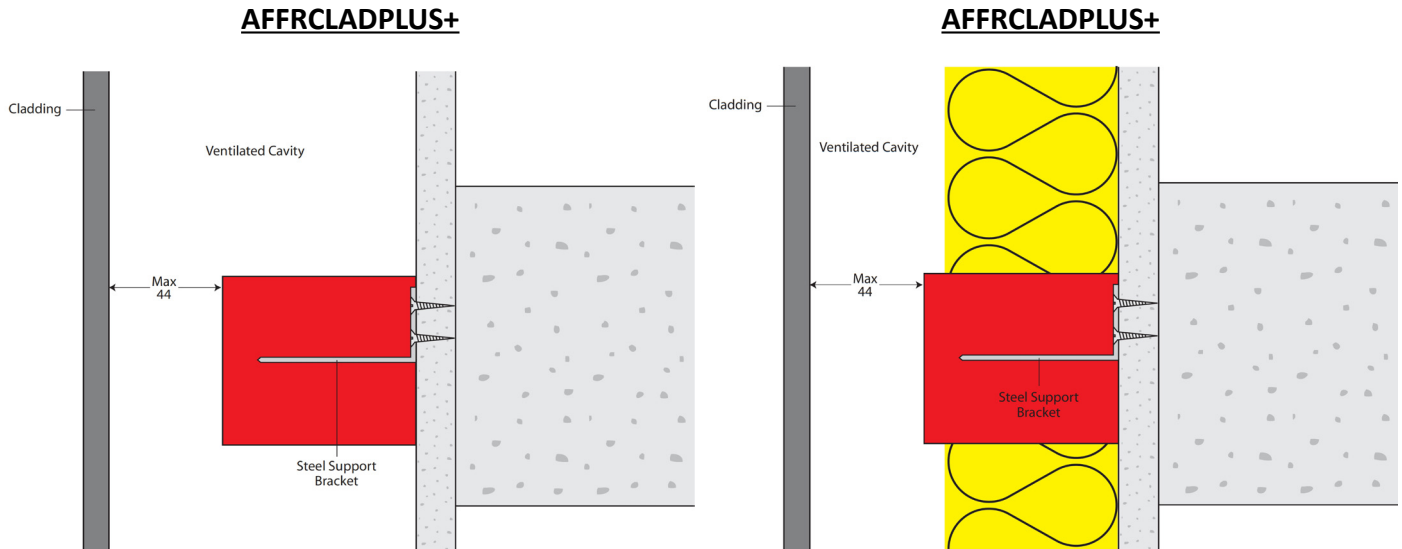
Fire ratings:
Minimum 30 minutes in Timber Structures
Minimum 30 minutes fitted between Phenolic Insulation

To order:
Astro Clad Red 50mm x 50mm x 1000mm
AFFRCLAD5050

Product Availability

Product code – AFFRCLADPLUS+

Astro Clad-AFFRCLADPLUS+ offers an effective fire barrier for cavities over 125mm. The product has been successfully fire tested for up to 90 minutes fitted directly onto cement board.



The product not only offers a superior fire rating but also allows a continuous ventilation space of up to 44mm. This provides excellent ventilation behind the cladding whilst leaving enough free space for the installer to easily install the cladding panels after the ventilated fire barrier seal.

| Assessed Construction Type | Fire Rating | |
|-------------------------------|--------------|--------------|
| | Horizontal | Vertical |
| Brick, Block, Masonry | 30.60.90 | 30.60.90 |
| Aerated Concrete Block | 30.60.90 | 30.60.90 |
| Fitted with Kingspan Kits | 30.60.90.120 | 30.60.90.120 |
| Mineral Fibre on Concrete | 90 | 90 |
| Mineral Fibre on Timber Frame | 30 | 30 |
| Timber Frame | 30 | 30 |

* Fire rating will vary depending on cavity size.

Finish:

Encapsulated in red polythene

Size:

Customer specifies the required depth based on formula below
75mm x 1000mm x Total Cavity Width minus 44mm (Custom Depth)

Maximum Air Gap:

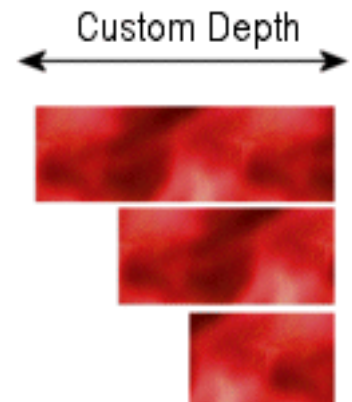
44mm

Fire ratings:

90 minutes fixed to cement board

To order:

Astro Clad Red 75mm x 1000mm x Your Custom Depth mm AFFRCLADPLUS+



To Order & Specify

Please contact us and quote the following information - Quantity / Product Code / Product Description
Typical example:- 10 / AFFRCLAD35 / Astro Clad Ventilated Fire Barrier

>> Tel: [01329 844 500](tel:01329844500) or >> Email: sales@astroflame.com

Installation

Please see installation sheet - This can be requested from our sales team T: [01329 844 500](tel:01329844500)
or E: sales@astroflame.com

Health and Safety

Please see (SDS) Safety Data sheet - This can be requested from our sales team T: [01329 844 500](tel:01329844500)
or E: sales@astroflame.com

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