

Product Data Sheet

AstroGrille

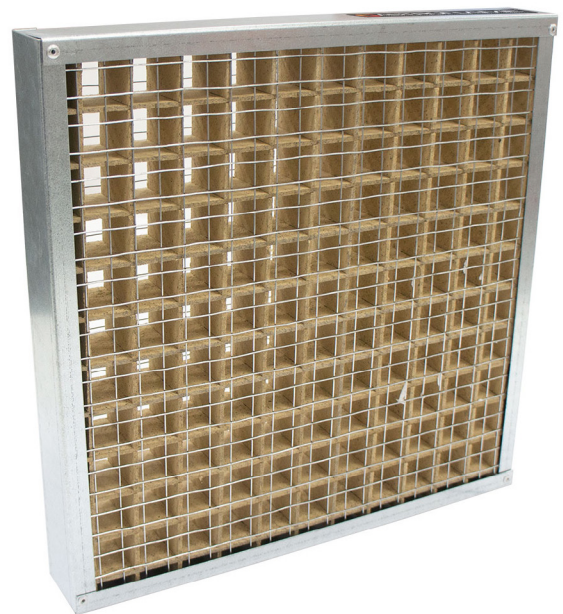
Revision 15 - 4th May 2022



Astrogrille

Intumescent Fire Grilles

- Fire Grilles tested to BS 476: Part 22 1987.
- Comprehensive range of fire grille sizes.
- For use in solid timber fire doors & solid block walls.
- Suitable for mounting up to 1,000mm (1m) from floor level. Top edge of Grille should be no higher than 1,000mm (1m)
- In excess of 30 or 60 minutes fire rating.
- Vermin proof wire mesh 80% free area.



Product Description

A durable ventilation grille which is easily mounted in solid timber fire doors & solid block walls, and can provide in excess of 1/2 or 1 hour fire protection. Astroflame Fire Grille comprises of a intumescent core within a galvanized steel frame with vermin proof 6mm steel mesh fitted to both faces.

Suitable for fitting up to 1,000mm (1m) from floor level. The top of the grille should not be higher than 1000mm from the floor.

The design allows a free area of 80% approximately. See our Free Area table below for guidance.

All square and rectangular grilles are available to suit 30 minute or 60 minute on previously fire rated applications. Please note these fire grilles are tested with a **Steel face Plate (Astro Plates)** either side. Free area table below is for the Fire Grille only at approx. 80%. If you require the free area for the grille and face plate either side please contact us.

Product Availability

Maximum single grille size is 600 x 600 mm.

Line the aperture with **Astro INTU Mastic** and mechanically fix the Grille in place with steel screws in each corner and at 150mm centres both sides.

Product Code	Product Description	Size
AFFG <i>[please see Free Area table below for number reference e.g. AFFG 300200]</i>	Astrogrille	300x200mm <i>[please see airflow table below]</i>

Free Area Specifications

Free Area Table: Astroflame Intumescent Fire Grilles.

Top row is width dimension. First column is Height dimension. Sizes in mm

	100	150	200	225	250	300	350	400	450	500	550	600
100	80cm ²	120cm ²	160cm ²	180cm ²	200cm ²	240cm ²	280cm ²	320cm ²	360cm ²	400cm ²	440cm ²	480cm ²
150		180cm ²	240cm ²	270cm ²	300cm ²	360cm ²	420cm ²	480cm ²	540cm ²	600cm ²	660cm ²	720cm ²
200			320cm ²	360cm ²	400cm ²	480cm ²	560cm ²	640cm ²	720cm ²	800cm ²	880cm ²	960cm ²
225				405cm ²	450cm ²	540cm ²	630cm ²	720cm ²	810cm ²	900cm ²	990cm ²	1080cm ²
250					500cm ²	600cm ²	700cm ²	800cm ²	900cm ²	1000cm ²	1100cm ²	1200cm ²
300						720cm ²	840cm ²	960cm ²	1080cm ²	1200cm ²	1320cm ²	1440cm ²
350							980cm ²	1120cm ²	1260cm ²	1400cm ²	1540cm ²	1680cm ²
400								1280cm ²	1120cm ²	1600cm ²	1760cm ²	1920cm ²
450									1620cm ²	1800cm ²	1980cm ²	2160cm ²
500										2000cm ²	2200cm ²	2400cm ²
550											2420cm ²	2640cm ²
600												2880cm ²

Calculations made using 80% (approx) Free area. Please note that this table does not allow for the effects of fitting any of the Astroflame Steel Louvred Face Plates, or any other type of aesthetically pleasing cover over the fire grille.

To Order & Specify

Please contact us and quote the following information - Quantity / Product Code / Product Description / Size
Typical example:- 2 / AFFG 300200 / Astrogrille / 300x200mm

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

Installation

We have technical representatives who provide assistance in the selection and specification of the products on this site and should be consulted for exact installation and product suitability. Ensure an early engagement with ourselves, designers, main contractor and specialist installers before any installation. Other trades and/or manufacturers may need to be consulted. For in-depth information, specification and technical advice please call our Head Office on tel [01329 844 500](tel:01329844500) or email sales@astroflame.com

Maintenance

All interested parties, designer, specifier, main contractor and specialist installers should provide access to allow the fire stopping seals to be regularly inspected and maintained, as well as records kept of such maintenance at minimum periods of 12 months, as required by the Regulatory Reform Order, and repaired if necessary. Reference should be made to ASFP TGD 17 – Code of Practice for the Installation and Inspection of Fire Stopping.

Competency

It is vital that those entrusted to design or install a fire stopping product have the necessary levels of competence to undertake the task professionally and thoroughly. The level of competency required will be commensurate with the expected complexity of the building. All designers must eliminate, reduce or control foreseeable risks that may arise during installation, construction or maintenance when preparing or modifying designs. Clients should ensure that the principal designer and principal contractor carry out their duties under CDM regulations. The ASFP foundation course in passive fire protection provides essential knowledge as part of demonstrating competency and understanding in this key fire protection specialism.

Additional Notes

How do I install a fire grille (AstroGrille)

- The AstroGrilles is tested with a Steel face Plate (Astro Plates) either side.
- Suitable for fitting up to 1,000mm (1m) from floor level. The top of the grille should not be higher than 1000mm from the floor.
- For block work installation, block work should be a minimum of 75mm thick and with a suitable lintel above the grille so that the grille is non load bearing.
- Door work installation should be a minimum of 44mm thick.
- The doorset must have been shown capable, by test or assessment, of accepting an aperture of the dimensions required by the proposed AstroGrille without detriment to its fire resistance performance. When determining acceptable aperture cut out dimensions, it is permissible to utilise aperture dimensions approved for glazed vision panels that have not been used.

For further information on installation requirements please refer to the door manufacturer data and wall specification data to ensure the compatibility of this product, if in doubt please contact the technical team on: T: [01329 844 500](tel:01329844500) or E: sales@astroflame.com

Health and Safety

For further information on health and safety requirements please contact the technical team on: tel [01329 844 500](tel:01329844500) or email sales@astroflame.com

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