ASTROFLAME
PASSIVE FIRE STOP SYSTEMS

Technical Data Sheet

Astro FRA Socket Box Cover

Revision 1 - 17th November 2021



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General Product Description

Astroflame's Astro FRA Socket Box Cover (SBC) are manufactured from halogen free, low smoke, intumescent mineral fibre material and are designed to reinstate the fire performance of partition (stud) wall constructions when penetrated by steel or plastic electrical socket back boxes. The cover will also provide resistance to the passage of sound and air movement.

In the event of a fire the Astro FRA Socket Box Cover (SBC) intumescent material will expand to enclose the electrical back box and cables, providing effective fire resistance, for integrity and insulation for 60 or 120 minutes depending upon the partition (stud) wall construction.

Product Advantages

Technical

- BS 476 Fire Tested for 120 Minutes
- EN 1366-3 Tested to EI60 Minutes for use with European Style Single Sockets only
- Tested for minimal acoustic noise transfer or air movement
- Suitable and tested with plastic back boxes, also suitable for steel back boxes
- Available for single and double sockets

Installation and maintenance

- Pre-formed for easy installation – can be installed in seconds
- No maintenance – SBC should not move or become damaged if the socket is replaced, if fitted correctly
- Mess free installation – no need for adhesives, screws or drilling
- Can be retrofitted – also works when fitted back to back in uninsulated walls

Approved Applications

Socket Box Covers (SBC) - 10mm thick version

Fire Test Performance tested to BS 476: Part 20

Wall Construction	Tested back to back or offset, space between boxes	Single box 80mm x 80mm x 40mm, suits both 35 and 47mm deep back boxes.	Double box 150mm x 80mm x 40mm suits both 35 and 47mm deep back boxes.	Plastic dry lining back box (patress)	Integrity	Insulation	Tested System and Assessment Reports
120mm Plasterboard (Stud) wall - 2x 12.5mm plasterboard either side of 70mm steel stud	Single Back to Back Double Offset 150mm horizontally	Yes	Yes	Yes	120	120	Chilt/ IF07055

Sizes

- BS 476 Tested Version
- Nominal Thickness 10mm
- Single box 80mm x 80mm x 40mm, suits both 35 and 47mm deep back boxes.
- Double box 150mm x 80mm x 40mm suits both 35 and 47mm deep back boxes.

Physical Properties

Property	Typical Value
Halogen Content	Halogen Free
Density	200 kg/m³
Free Expansion (Ratio : 1)	6:1
Activation Temperature	200°C
Thermal conductivity (λ) ISO 8301:1991 and BS EN 12667: 2001	0.0343
Acoustic Performance (BS EN ISO 717-1:1997)	67 Rw(C; C;tr) dB

Storage & Durability

Storage	Dry, ambient
Transportation storage temperature	-20°C to +70°C
Working Life	48 years
Smoke/Halogen Content	Low Smoke / Zero Halogen

Tools / Fittings

- As required by employer's risk and method statements
- Hand and eye protection, to protect from wire cutting
- Wire cutters to cut steel wire legs (retaining legs)

Intended use

Internally used within partition (stud) wall voids, fitted behind recessed socket back boxes to reinstate fire resistance performance.

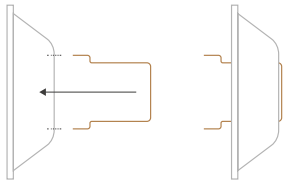
Transportation & Storage

- Store in a cool dry place
- Take care not to exceed safe working loads and heights for storage shelves and racks



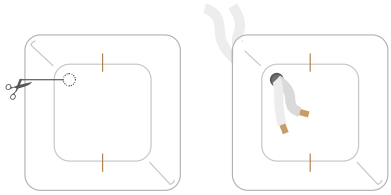


Fitting Instructions



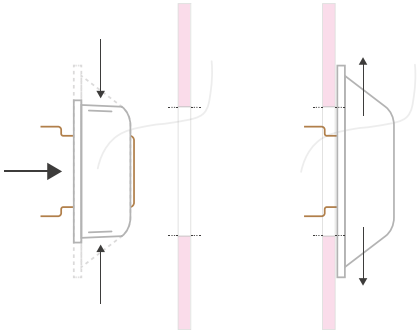
STEP 1

Push the retaining wire legs through the holes in socket cover.



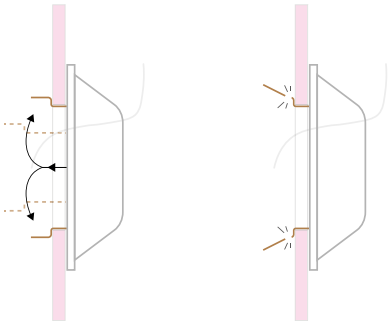
STEP 2

Pierce a hole, as small as possible, in the rear of the socket cover, in the position required for the cables to pass into the socket back box and feed the cable through the rear of the cover.



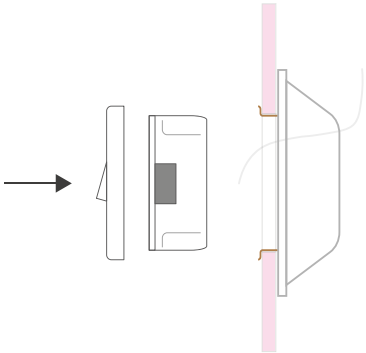
STEP 3

With the retaining wire legs at 90 degrees to the wall surface, fold the sides of the cover to form a flat rectangle. Hold on to the wire legs and pass the flat rectangle through the hole in the wall. Allow the cover to spring back into shape within the wall and move the cover until the correct position is achieved, ensuring that the cover fully surrounds the aperture.



STEP 4

Pull the retaining wire legs to the front face of the plasterboard wall surface ensuring that the small bend in the wire firmly engage with the wall surface. Cut off the excess from the retaining wire legs, using wire cutters or pliers, this should leave at least 10mm of retaining wire to be visible on the front face of the plasterboard.



STEP 5

Fit the socket box in the aperture to the manufacturer's instructions. Make the electrical connections as required to the socket plate and fit the face plate in the normal manner.

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 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

For further information on installation requirements please refer to the socket box manufacturer data and wall specification to ensure the compatibility of this product, if in doubt please contact the technical team with services and wall specification on tel 01329 844 500 or email sales@astroflame.com

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