

Application:	Fire doors
Fire resistance period:	30 to 60 minutes
Insulation/integrity:	Integrity
Test standard:	BS 476: Part 22
Approval type:	IFC Certificate No. IFCC 1001

Fire Rated Air Transfer Grilles



PRODUCT PROFILES:



Pyroplex Limited offers a comprehensive range of Fire Rated Air Transfer Grilles that are suitable for use in fire resisting doorsets for up to 60 minutes fire resistance. In normal use, the Pyroplex® Fire Rated Air Transfer Grille allows air to be circulated and moved throughout the building. During a fire, the system is designed to close and provide a fire barrier to restrict the passage of hot gases.

Pyroplex® Fire Rated Air Transfers are tested to BS 476: Part 22 for 30 and 60 minutes fire resistance. Test Reports No.146520/146521 and I48053 apply – combined within Assessment Report No.149511.

IFC Certificate No. IFCC 1001

(Available to download from the Pyroplex website, www.pyroplex.com)

FIELD OF APPLICATION

Pyroplex® Fire Rated Air Transfer Grille Systems have been specifically designed for use in the following applications:

- Fire resisting doorsets – 30 minutes and 60 minutes

PRODUCT FEATURES

Grilles

- Grilles are of a modular robust construction
- The frames are constructed from Zintec Mild Steel [0.65mm thick] with matching Zintec clips
- The system is easy to install and is maintenance free
- Pyroplex® intumescent material is totally unaffected by water, robust, 'non-flaking' and difficult to tear

Faceplates

- Faceplates are constructed from Zintec Mild Steel [1.0mm thick] and powder coated
- Faceplates are supplied with fixing screws
- Faceplates are available in a choice of three powder coated finishes – white, silver and beige.

PRODUCT RANGE - GRILLES

Part no.	Dimensions [mm]	Fire resistance	Free area (%)*
ATGI500	150 x 150 x 40	30 and 60 mins	60%
ATGI503	150 x 300 x 40	30 and 60 mins	60%
ATGI300	300 x 300 x 40	30 and 60 mins	60%
ATG2251	112 x 225 x 40	30 and 60 mins	60%
ATG2250	225 x 225 x 40	30 and 60 mins	60%

*Calculation is based upon overall grille dimensions and distance between product veins.

PRODUCT RANGE - FACEPLATES

Part no.	Compatibility
FP1500	ATGI500
FP1503	ATGI503
FP1300	ATGI300
FP2251	ATG2251
FP2250	ATG 2250

INSTALLATION INSTRUCTIONS

The installer must ensure that the doorset/door blank has been tested with an aperture to accept an air transfer grille system for the required period of fire resistance.

Installation procedure

1. Cut the aperture in the door. The system should be installed no closer than 150mm to the threshold and no higher than 1850mm.
2. Line the aperture with a 6mm hardwood liner.
3. Apply a bead of Pyroplex® Intumescent Acrylic Sealant centrally and spread the acrylic across the full width of timber liner, to achieve a thickness of 0.5mm.
4. Install the Pyroplex® Fire Rated Air Transfer Grille into the aperture.
5. Secure the system into place using steel pins [not supplied]. Alternatively, secure the system using self-tapping screws.
6. Fit the cover plates on both faces of the door and secure with screws provided.

QUALITY APPROVAL

Pyroplex Limited have a Quality Management System that meets the requirements of ISO 9001 and an Environmental Management System that meets the requirements of ISO 14001, both are independently verified by BSI Quality Assurance under Certificate Numbers FM 10371 and EMS 637894. Copies of these certificates are available on our website to download at www.pyroplex.com.

OTHER INFORMATION

The information contained herein is based upon the present state of our knowledge. Recipients of Pyroplex® products must take responsibility for observing existing laws and regulations.

Due to our policy of continuous improvement, Pyroplex Limited reserves the right to amend specifications without prior notice.

- **Not suitable for installation in Fire Doors which require test evidence for smoke control [BS 476:Part31. 1 or BS EN 1634-1]**

TECHNICAL DATA:

PRODUCT TESTING

Independently tested by Warringtonfire for 30 and 60 minutes fire resistance. The system has been tested for positive and negative pressure planes, satisfying integrity performance for 30 and 60 minutes. Test Report No.146520/146521 and 148053 apply - combined within Assessment Report No.149511. IFCC 1001 accreditation applies.

Test reports and international standards
Warringtonfire Test Report No. 146520 [BS 476 Part 22]
Warringtonfire Test Report No. 146521 [BS 476 Part 22]
Warringtonfire Test Report No. 148053 [BS 476 Part 22]
Warringtonfire Assessment Report No. 149511
IFCC 1001

MAINTENANCE AND INSTALLATION RECORDS

As this product is not subject to routine and replacement programmes, Pyroplex Limited recommend that all firestopping materials are checked on a regular basis to ensure that the product remains integral. Replace and fit any damaged components to reinstate the fire resistance.

MATERIAL SAFETY DATA:

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Thermoplastic element composition containing intercalated graphite in a synthetic compound with the addition of fillers and process oils. Presented in a Zintec mild steel outer casing to form the final product.

POSSIBLE HAZARDS

Principle hazards: Not subject to decree of hazardous substances.

Critical hazard to man and environment: Not applicable.

FIRST AID MEASURES

On skin contact: Not applicable.

On contact with eyes: Not applicable.

On ingestion: Not applicable.

If inhaled: Not applicable.

FIRE FIGHTING MEASURES

Pyroplex® intumescent material is self-extinguishing.

Suitable extinguishing media: Water, foam, powders and dry extinguishing media.

Special protective equipment: Suitable forms of PPE [personal protective equipment]. Avoid inhalation of smoke or fumes.

In the event of fire, contact the appropriate emergency services for assistance.

ACCIDENTAL RELEASE MEASURES

Personal precaution: Not applicable.

Environmental precaution: Not applicable.

Methods for cleaning up: No special measures necessary.

HANDLING AND STORAGE

Handling: No special requirements.

Storage: Store in a cool, dry place [not above +35°C] and ensure sufficient ventilation.

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory protection: None normally required.

Hand protection: Not applicable.

PRODUCT GUARANTEE

Providing the product is installed in accordance with the requirements of the guidance document, the product is guaranteed for a period of 10 years.

TECHNICAL SUPPORT AND GUIDANCE

Should you require any further information regarding this product, please contact Pyroplex Limited or visit our website, www.pyroplex.com

Eye protection: Not applicable.

Skin protection: Not applicable.

PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Colour	Black
Odour	Acidic

STABILITY AND REACTIVITY

Conditions to be avoided: Thermal decomposition above +300°C.

Hazardous decomposition products: Thermal decomposition, fumes contain Hydrogen Chloride. However, the activated graphite is effective at removing aromatic particles from smoke emissions.

TOXICOLOGICAL INFORMATION

Acute toxicity: Not applicable in solid state.

ECOLOGICAL INFORMATION

General advice: Observe the legal provisions regarding the prevention of ground water and surface water as well as air. Do not discharge product into natural waters without pre-treatment.

DISPOSAL CONSIDERATIONS

Recommendations: Disposal by means in accordance with local regulations e.g. suitable deposition.

TRANSPORT INFORMATION

Transport hazards: No regulations apply for the transport of this material. Not classified as hazardous for road, rail, sea or air transport.

REGULATORY INFORMATION

Labelling according to EEC directives	
National legislation/regulation	Not applicable
VbF classifications	None
Water hazard class	Not applicable