

QUICK VIEW	Application:	Fire Doors and Compartment Walls
	Fire Resistance Period:	30 minutes and 60 minutes
	Insulation/Integrity:	Integrity
	Test Standard:	BS476 Part 22:1987
	Approval Type:	Certifire CF549 (TS47)

Fire Rated Air Transfer Grilles

Pyroplex® offers a comprehensive range of fire rated Air Transfer Grilles that are suitable for use in fire resisting doorsets and compartment walls for up to 60 minutes fire resistance.

In normal use, the Pyroplex® system 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.

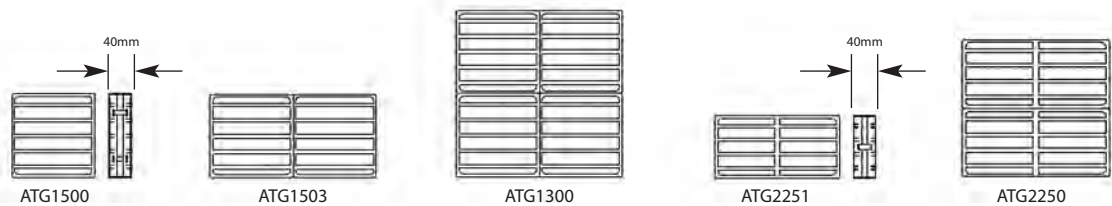
Pyroplex® Air Transfer Grille Systems are tested for 30 and 60 minutes fire resistance. Test Reports No.146520/146521 and 148053 apply - combined within Assessment Report No.149511.

CERTIFIRE Certificate No. CF549

Product Data Sheet



Product Profiles



Field of Application

Pyroplex® air transfer grille systems have been specifically designed for use in the following applications:

- Fire resisting doorsets - 30 minutes and 60 minutes.
- Compartment walls - up to 60 minutes fire resistance.

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.
- System is easy to install and maintenance free.
- Pyroplex® Intumescent strip 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.



Please note: Colours shown are for guidance only and not for colour matching

Product Range - Grilles:

Part No.	Dimensions (mm)	Fire resistance	Free Air Flow
ATG1500	150 x 150 x 40	30 and 60 mins	153 sq. cms
ATG1503	150 x 300 x 40	30 and 60 mins	307 sq. cms
ATG1300	300 x 300 x 40	30 and 60 mins	614 sq. cms
ATG2251	112 x 225 x 40	30 and 60 mins	161 sq. cms
ATG2250	225 x 225 x 40	30 and 60 mins	323 sq. cms

Product Range - Faceplates:

Part No.	Compatibility	Free Air Flow
FP1500	ATG1500	150 sq.cms
FP1503	ATG1503	295 sq.cms
FP1300	ATG1300	593 sq.cms
FP2251	ATG2251	159 sq. cms
FP2250	ATG 2250	320 sq. cms

Product Testing

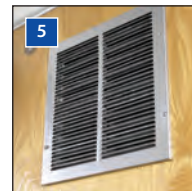
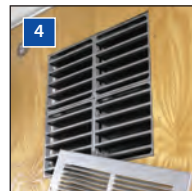
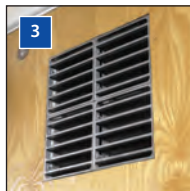
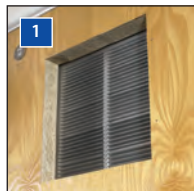
Independently tested by Bodycote/Warringtonfire for 30 and 60 minutes fire resistance. The system has been tested for positive and negative pressure planes, satisfying integrity performance for 30 and 60 minutes. Test Report No.146520/146521 and 148053 apply - combined within Assessment Report No.149511. CERTIFIRE CF549 accreditation applies.

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Fire Rated Air Transfer Grilles

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Typical Installation



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. Failure to comply with the requirements and instructions detailed in the specification of the doorset/blank may invalidate the fire resistance period of the fire resisting door assembly.

Position and Location Within the Doorset

As the test series includes both positive and negative pressure tests, it is considered that the grilles may be installed within doorsets adhering to the following criteria. The system shall be installed no closer than 150mm to the threshold and no higher than 1850mm.

Installation Procedure

1. Cut the aperture in the door.
2. Line the aperture with a 6mm-hardwood liner.
3. Apply a bead of Pyroplex® intumescent acrylic centrally and spread the acrylic across the full width of timber liner, to achieve a thickness of 0.50mm.
4. Install the 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.

Health and Safety Information

For detailed information on this product please refer to the relevant Material Safety Data Sheet which is available on request or downloadable at www.pyroplex.com.

Transportation & Storage

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

Storage: Store in a cool, dry place (not above 35°C) and ensure sufficient ventilation.

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. All Pyroplex® products are identified with a unique reference number for traceability purposes.

Quality Approval

Pyroplex® Limited has a Quality Management System that meets the requirements of BS EN ISO 9001:2000, and is independently verified by BSI Quality Assurance under Certificate Number FM10371. Copies of this approval are available on request.

Technical Support and Guidance

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

Additional Information

The information contained herein is based upon the present state of our knowledge. Recipients of our 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.

Pyroplex® Jargon Buster

What is CERTIFIRE?

CERTIFIRE is a national certification body operating specifically in the field of passive fire protection and has been recognised by regulatory authorities both in the UK and overseas.

CERTIFIRE requirements are based on those for CE Marking but whereas the CE Mark reflects compliance with minimum regulatory requirements, CERTIFIRE provides a third party product certification at a higher level, a quality mark. This is designed to enable manufacturers to demonstrate a difference between their products and those satisfying only the minimum requirements to be placed on the market.

The main additional requirements for CERTIFIRE over and above verification for CE Marking's are ISO9001:2000 certification, independent audit testing and a comprehensive field of application document based on carefully chosen product performance tests.

What is a Technical Schedule?

CERTIFIRE provide companies with a certificate of approval if the products are in accordance with CERTIFIRE rules of certification. CERTIFIRE Technical Schedules are the technical specification against which certification is awarded.

Each Technical Schedule describes the performance and design characteristics required of a product to satisfactorily perform its fire protection function.

What is a BS476 Part 22:1987?

There are a wide range of British Standards relating to fire safety regulations. BS476 is concerned with fire testing on building materials and structures. Part 22: 1987 specifically relates to 'Methods for determination of the fire resistance of non load bearing elements of construction'.

Fire Rated Air Transfer Grilles

Technical Data Sheet

Issue Date:	1st October 2007	Issue No.	1	Revision No.	1
		No. of Pages	1	Page No.	1

General Purpose

In normal use, the grille system allows free air to be circulated and moved throughout the building. Under a fire situation, the system is designed to close and provide a permanent fire barrier to restrict the passage of hot gases.

Field of Application

Pyroplex® air transfer grille systems have been specifically designed for use in the following applications:

- Fire resisting doorsets - 30 minutes and 60 minutes.
- Compartment walls - up to 60 minutes fire resistance.

Product Information

Grilles

Part No.	Dimensions (mm)	Qty per box	Fire resistance
ATG1500	150 x 150 x 40	20 components	30 and 60 mins
ATG1503	150 x 300 x 40	10 components	30 and 60 mins
ATG1300	300 x 300 x 40	5 components	30 and 60 mins
ATG2251	112 x 225 x 40	10 components	30 and 60 mins
ATG 2250	225 x 225 x 40	5 components	30 and 60 mins

Face Plates

Part No.	Compatibility	Qty per box
FP1500	ATG1500	10 components
FP1503	ATG1503	10 components
FP1300	ATG1300	10 components
FP2251	ATG2251	10 components
FP2250	ATG 2250	10 components

Product Features

Grilles

- Air transfer grille systems feature modular robust construction.
- Grilles constructed from Zintec Mild Steel (0.65mm thick) with matching Zintec clips.
- System is maintenance free and easy to install.
- Intumescent strip 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 available in a choice of three powder coated finishes - white, silver and beige.
- Faceplates are supplied with fixing screws.

Intumescent Material

The Intumescent material is based upon an expandable graphite, which when heated expands multi-directionally generating high pressure to fill the cavity of the plastic pipe which has been consumed in the fire. The expanded graphite exhibits sufficient char to restrict the passage of fire through the door or compartment wall for 30/60 minutes fire resistance.

Test Response

Independently tested by Bodycote/Warringtonfire for 30 and 60 minute 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. CERTIFIRE CF549 accreditation applies.

Test Reports & International Standards
Warringtonfire Test Report No.146520 (BS476 Part 22:1987)
Warringtonfire Test Report No.146521 (BS476 Part 22:1987)
Warringtonfire Test Report No.148053 (BS476 Part 22:1987)
Warringtonfire Assessment Report No.149511
CERTIFIRE CF549

Maintenance and Installation Records

As this product is not subject to routine and replacement programmes, Pyroplex® 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.

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.

Quality Approval

Pyroplex® Limited has a Quality Management System that meets the requirements of BS EN ISO 9001:2000, and is independently verified by BSI Quality Assurance under Certificate Number FM10371. Copies of this approval are available on request.

Technical Support and Guidance

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Material Safety Data Sheet

Issue Date:	1st October 2007	Issue No.	1	Revision No.	1
In accordance with 91/155/EEC directive		No. of Pages	1	Page No.	1 of 1

Field of Application

For fire rated doors and compartment walls.

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: Wash thoroughly with soap and water

On Contact with Eyes: Wash for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On Ingestion: Rinse mouth immediately, do not induce vomiting, and seek immediate medical attention.

If inhaled: Not applicable in solid state.

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

Environmental Precaution: Do not discharge the product into drains or water courses, ensure materials are disposed of in accordance with Local Authority regulations and/or Government legislation.

Methods for Cleaning Up: No special measures necessary.

Personal Precaution: In the event of fire ensure sufficient ventilation.

Handling and Storage

Handling: No special requirements. Keep away from food and drink.

Storage: Store in a cool dry place (not above 35°C). Keep out of reach of children. Take care for sufficient ventilation.

Exposure Controls and Personal Protection

Respiratory protection: None normally required, when supplied in solid form.

Hand protection: Appropriate protective gloves.

Eye protection: Appropriate protective goggles.

Skin protection: None normally required.

Physical and Chemical Properties

Form:	Solid
Colour:	Black
Odour:	Acidic
Density:	1.3 specific gravity

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/ regulations	Not applicable.
VbF Classifications	None
Water hazard class	Not applicable.

Other Information

The information contained herein is based upon the present state of our knowledge. Recipients of our 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.