

QUICK VIEW	<b>Application:</b>	Metal fire resisting doorset
	<b>Fire resistance period:</b>	30 to 60 minutes [indicative]
	<b>Insulation/integrity:</b>	Integrity

## Fire Door Seals – Safex

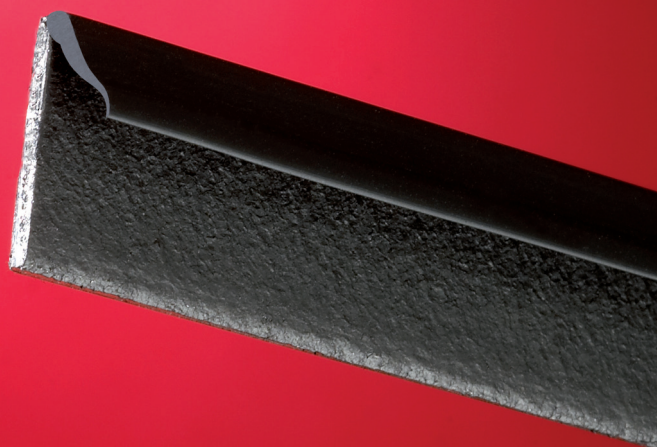
Pyroplex® Safex Seals provide an effective fire, smoke and acoustic seal for metal doorsets. They have been specifically designed to incorporate a high performance polyurethane flipper.

Pyroplex® Safex Seals are surface mounted and suitable for new and retro-fit applications. The seals can be used in single action single doorset and can provide up to 60 minute fire resistance.

Pyroplex® Safex Seals are supplied in 2.1m lengths as standard and incorporate an acrylic self-adhesive tape.

Pyroplex® Safex Seals have achieved an accoustic rating of Rd32dB when tested in accordance with BS ISO 140-3.

## Product Data



Product profile



Safex 205  
30143



Safex 125  
30144

### Field of application

The Pyroplex® Safex Seals have been specifically designed for use in the following applications:

- For use on metal pedestrian fire resisting door assemblies and timber door leaves or door frames.
- Single action single doorsets, and single acting double leaf perimeter seals.
- For new and retro-fit applications.

### Product features

- Polyurethane flipper for low surface co-efficient.
- Excellent deflection recovery performance.
- Manufactured as a single component so flipper will not detach.
- High performance flipper which reduces smoke, acoustic and air infiltration.
- Can be surface mounted.
- Has achieved an accoustic rating of Rd32dB.

### Product data

Part no.	Profile size [mm]	Indicative fire resistance
30144	12 x 1.8mm	30 minutes
30143	20 x 1.8mm	60 minutes

### Installation instructions

1. Clean the substrate to remove surface oils, failure to remove surface greases may result in a delamination or poor adhesion to the substrate.
2. Remove the self-adhesive backing liner from the intumescent and apply the Pyroplex® Safex Seal to the substrate.
3. Apply even pressure to secure the Pyroplex® Safex Seal against the substrate.
4. To achieve excellent adhesion seals must be applied to clean, dry surfaces at temperatures between +5°C and +40°C.

### Packaging information – boxed

Profile size [mm]	Quantity
12 x 1.8mm	100 x 2.1m
20 x 1.8mm	175 x 2.1m

### Quality approval

Pyroplex Limited has a Quality Management System that meets the requirements of ISO 9001:2008, and is independently verified by BSI Quality Assurance under Certificate No. FM10371. Copies of this approval are available on request.

### 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.

## Technical Data

### Product testing

The Pyroplex® range of Safex Seals have been tested to national and international standards worldwide.

### Technical data

**Chemical composition:** The active element is high-pressure forming, multi-directional expandable graphite contained within a high performance durable polymer with a polyurethane flipper.

**Adhesive performance:** Adhesive type: High performance modified acrylic.

**Thickness:** 205 microns.

**Temperature resistance:** +200°C short term, +100°C long term.

**Tensile strength:** >30N/15mm.

**Elongation:** 50%.

**Humidity resistance:** Very good.

**Solvent resistance:** Very good.

**Ageing resistance:** Very good.

**Life cycle:** 10 years, providing the seal is installed in accordance with the requirements given in these guidance notes.

### Maintenance and installation records

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 or smoke sealing performance.

### 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](http://www.pyroplex.com)

## 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, with a polyurethane flipper. Supplied with an acrylic self-adhesive backing.

### 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.

**Eye protection:** Not applicable.

**Skin protection:** Not applicable.

### Physical and chemical properties

<b>Intumescent element</b>	Solid
<b>Colour</b>	Black
<b>Odour</b>	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.

### 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