

Application:	Fire resisting timber doorset
Fire resistance period:	30 to 90 minutes
Insulation/integrity:	Integrity and insulation
Test standard:	BS 476: Part 20/22, BS 476 Part 31.1, BS EN 1634-1, BS EN 1634-3, BS EN ISO 10140-2
Approval type:	Certifire CF822

## Timber Door Fire Seals with Flippers – Fire, Smoke & Acoustic Flipper Range



### PRODUCT PROFILES:



Single flipper



Twin flipper



Side flipper



Triple flipper

Pyroplex<sup>®</sup> Flipper range provides fire, smoke and acoustic seals for timber door edges and frames. The flippers are thermally fused to the box section to ensure that under normal conditions of use they will not delaminate. This technology ensures improved performance and also the appearance of the seal. The Integral Flipper range adds added security with an integral flipper that will remain uninterrupted when used with ironmongery.

Pyroplex<sup>®</sup> Flipper range are supplied in 2.1m lengths as standard and are quick and easy to fit with no special tools required. The Flipper range provides fire, smoke and acoustic properties which have been tested to BS 476: Part 20/22, BS 476: Part 31.1, BS EN 1634-1, BS EN 1634-3 and BS EN ISO 10140-2.

**Certifire Certificate No. CF822** (Available on our website to download at [www.pyroplex.com](http://www.pyroplex.com))

### FIELD OF APPLICATION

Pyroplex<sup>®</sup> Flipper range have been specifically designed for use in the following applications:

- Rebates in timber door leafs or door frames
- Use on acoustic doorsets
- Use on single and double action leaf doors
- Use on latched and unlatched doors
- New build and retro-fit applications

### PRODUCT FEATURES

- 30, 60 and 90 minute systems available
- Provides fire, smoke and acoustic resistance
- Integral flipper options available [Triple Flipper and Side Flipper]
- Improved aesthetics – the profile is more streamline
- Increased tamper resistance, ideal in educational establishments
- Durability performance in accordance with Certifire technical schedule as outlined in CF822
- Supplied with a self-adhesive backer for ease of application
- Identification on each product ensures full traceability
- Available in a range of colours – Black, White, Brown, Grey, Red and Cream

### PRODUCT DATA

	Dimensions (W x D mm)	Part No.	Fire Resistance			Smoke Control	Acoustic Control
			30 Min.	60 Min.	90 Min.		
SINGLE FLIPPER	10 x 4	30160	✓	–	–	✓	✓
	15 x 4	30165	✓	–	–	✓	✓
	20 x 4	30166	–	✓	–	✓	✓
TWIN FLIPPER	10 x 4	30170	✓	–	–	✓	✓
	15 x 4	30175	✓	–	–	✓	✓
	20 x 4	30176	–	✓	–	✓	✓
SIDE FLIPPER	15 x 6	30145	✓	✓	✓	✓	✓
	10 x 4	30150	✓	–	–	✓	✓
	15 x 4	30155	✓	–	–	✓	✓
TRIPLE FLIPPER	20 x 4	30156	–	✓	–	✓	✓
	15 x 4	30141	✓	✓	–	✓	✓
	20 x 4	30148	–	✓	–	✓	✓

✓ = primary test evidence available.

### INSTALLATION INSTRUCTIONS

1. Select the appropriate seal using the door test evidence, to identify the size of intumescent seal required.
2. Route a groove suitable for the size of intumescent seal.
3. The intumescent seal can be interrupted to allow for ironmongery, whilst still maintaining an integral flipper.
4. Remove the release liner from the product and push fit into the routed groove.
5. To achieve excellent adhesion seals must be applied to clean, dry surfaces at temperatures between +5°C and +40°C.

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

### OTHER INFORMATION

The information contained herein is based upon the present state of our knowledge. Recipients of Pyroplex<sup>®</sup> 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

Pyroplex® Flipper range have been tested to BS 476: Part 20/22, BS 476: Part 31.1, BS EN 1634-1, BS EN 1634-3 and BS EN ISO 10140-2. The Flipper range is compliant with the requirements given in Certifire TS35 and TS21. Certifire No. CF822.

### TECHNICAL DATA

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

**Outer container:** 0.5mm PVC-u outer casing, which has a proven performance in terms of durability, along with a high-performance acrylic adhesive to aid installation.

**Flipper:** High-performance polymer flippers are thermally fused to reduce delamination from the outer container.

**Acoustic performance:** The whole range has been acoustic tested and achieved ratings, exceeding the minimum requirements specified in Approved Document E.

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

### MAINTENANCE AND INSTALLATION RECORDS

As this product is not subject to routine and replacement programmes, Pyroplex Limited recommend that all firestopping materials are checked regularly to ensure that the product remains integral. Replace and fit any damaged components to reinstate the fire resistance or smoke sealing performance.

### PRODUCT GUARANTEE AND TRACEABILITY

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.

### 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. The graphite is encapsulated in an elastomeric polymer for aesthetic finish and has 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

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