

Application:	Fire resisting timber doorset
Fire resistance period:	30 to 60 minutes
Insulation/integrity:	Integrity and insulation
Test standard:	BS 476: Part 22: 1987
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[®] 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[®] 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 22, BS EN 1634-3: 2004 and BS EN ISO 10140-2: 2010.

Certifire Certificate No. CF822.

FIELD OF APPLICATION

Pyroplex[®] 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 and 60 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 – previously it has been easy to tear the flippers from the profile, a particular problem in educational establishments.
- Durability – flipper will not remove from seal, cycle tested to 100,000 cycles.
- 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.		
SINGLE FLIPPER	10 x 4	30160	✓	–	✓	✓
	15 x 4	30165	✓	–	✓	✓
	20 x 4	30166	–	✓	✓	✓
DOUBLE FLIPPER	10 x 4	30170	✓	–	✓	✓
	15 x 4	30175	✓	–	✓	✓
	20 x 4	30176	–	✓	✓	✓
SIDE FLIPPER	10 x 4	30150	✓	–	✓	✓
	15 x 4	30155	✓	–	✓	✓
	20 x 4	30156	–	✓	✓	✓
TRIPLE FLIPPER	15 x 4	30141	✓	✓	✓	✓
	20 x 4	30148	–	✓	✓	✓

✓ = primary test evidence available.

INSTALLATION INSTRUCTIONS

1. Select the appropriate seal using the door test evidence, which will identify the size 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 has a Quality Management System that meets the requirements of ISO 9001, and is independently verified by BSI Quality Assurance under Certificate No. FMI0371. 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

Pyroplex® Flipper range have been tested to BS 476: Part 22, BS EN 1634-3: 2004 and BS EN ISO 10140-2: 2010. The Flipper range is compliant with the requirements given in Certifire TS35. 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, which exceeds the minimum requirements specified in Approved Document E.

Life cycle: 10 years, providing the seal is installed in accordance with the requirements given in this 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

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