

PYROFEND

ADVANCED FIRE PROTECTION

High performance fire protection for critical instruments & equipment

Tailor-made, moulded enclosures, providing high performance fire protection for critical equipment in temperatures in excess of 1000°C for periods of up to two hours using the latest advanced material. That's PyroFend – the most recent introduction to Furmanite's fire protection portfolio.

This unique new material is used to manufacture close-fitting, lightweight, fire-proof enclosures that provide high-level protection against direct flame and thermal radiation offering excellent cold face temperatures.

PyroFend Advantages

- protects against direct flame and thermal radiation at any temperature
- moulded to fit any configuration or application
- can be modified on-site if required
- designed for space-saving close fit
- protects against temperatures in excess of 1000°C for up to 2 hours
- provides excellent cold face temperatures
- no additional mass required to achieve cold face temperatures
- absorbs thermal energy
- lightweight
- robust and durable
- non-toxic, even in fire conditions
- completely waterproof
- withstands harsh environments and arduous weather conditions
- electrical wiring can be terminated within enclosure
- no special tools required for installation
- easily removed for maintenance
- independently tested
- conforms to BS EN ISO 9000 quality standards

Serving every sector

PyroFend enclosures provide effective fire protection for critical equipment across all industries, for example:

- protection of damper actuators in the heating and ventilation industry
- protection of emergency shutdown equipment and import/export lines in the offshore oil and gas industry
- shielding safety critical plant in the power industry, including nuclear

Indeed, PyroFend guards against damage to any component that is required to operate during a fire, whatever the environment.

Multiple benefits

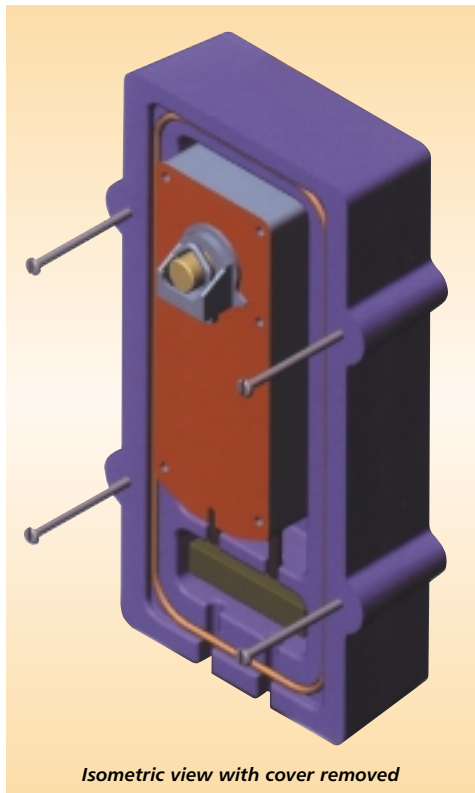
Thanks to the properties of the PyroFend material, in particular its excellent thermal insulation qualities, it can be designed and moulded for any configuration or application, to form a close-fitting, lightweight, yet robust and durable enclosure, offering significant advantages over the rigid or blanket-type systems currently used. What's more, it's totally non-toxic even in fire conditions, completely waterproof, and needs no additional mass to achieve cold face temperatures since thermal energy transmission is extremely low. Installation requires no special tools, electrical wiring can be terminated within the enclosure, and it can easily be modified, if necessary, on site – and removed for maintenance purposes when required.



ON-SITE SPECIALISTS

Next generation protection

PyroFend is an advanced phenolic composite resin. These synthetic polymers have been extensively and independently tested over many years and are known to perform well under elevated temperatures. The PyroFend development is built around a new phenolic composite resin matrix, promoting superior functional properties.



Independent testing

Independent fire test procedures were undertaken at the Warrington Fire Research Establishment by Furmanite in conjunction with fire damper and actuator manufacturers. With the furnace temperature at 300°C, the surface temperature of the actuator did not rise above 78°C after the one hour test using the PyroFend protection system.

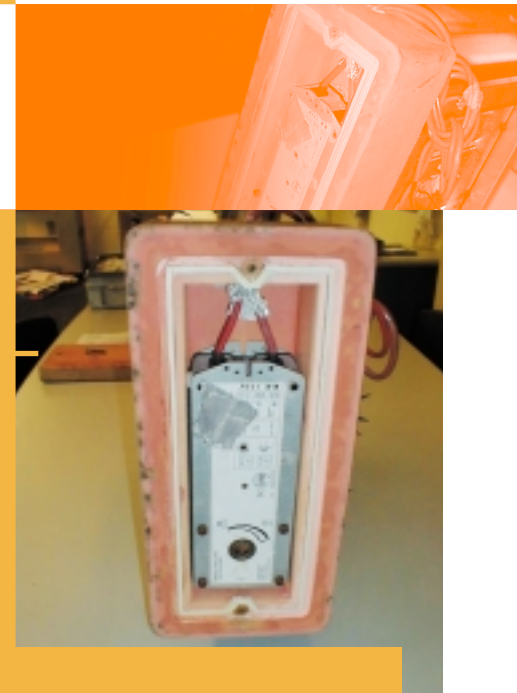
Indicative testing has also found that on a 1 cubic foot PyroFend enclosure at furnace temperatures of 950°C, the internal temperature of the enclosure did not increase above 0.8°C during the one hour test.

Straightforward to manufacture and install, low-maintenance yet easy to repair, meeting all the required standards for fire resistance and emissions, PyroFend structures provide a reliable and cost-effective means of protecting all your safety critical equipment.

Technical excellence

All Furmanite's fire protection solutions are based on the latest available technology and are designed to exceed expectations in terms of quality and reliability. We are constantly updating and refining our products and services to ensure you always gain the maximum benefit. At Furmanite, technical excellence comes as standard.

All Furmanite operations are conducted in strict accordance with registered quality standards centred on BS EN ISO 9000.



Total service package

From project management, to design, manufacture and installation, Furmanite is committed to offering the products, services and engineering support to meet its customers specific needs. Each project is completed in managed stages:

1. Exact project requirements are discussed with the client and Furmanite engineers conduct a site survey, if required.
2. Design proposals are then submitted to the customer for approval.
3. The PyroFend system is manufactured to the approved design and installed by fully trained Furmanite technicians.

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