

This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

## Flamefast Kitchensafe fire suppression system KSC003

### Description of Product

This is an assessment of the Flamefast Kitchensafe KSC003 fire suppression system, which uses a low PH liquid chemical suppressant delivered via a/multiple nozzle(s) attached to the cooker extract hood and activated by thermal detection sensor to extinguish exposed cooking oil stove top fires.



### Key Factors Assessed

- ☐ Safety in case of Fire
- ☐ Health, Hygiene and Environmental
- ☐ Safety in Use
- ☐ Durability serviceability and identification

### Validity

This certificate was first issued on 27<sup>th</sup> April 2016 and is valid until 27<sup>th</sup> April 2017

Issue Dated 27<sup>th</sup> April 2016

## Scope of Registration

This Registered System relates to the Flamefast Kitchensafe fire suppression system Model KSC003 – Single or Twin Nozzles system for integration in to Extraction Hood.

This model has the stainless steel cabinet, containing the extinguishing cylinder, firing actuator, and control panel. The numbers of nozzles are dependent on the size of range up to 1200mm max width. The supplied nozzles can then be integrated in to the extraction hood subject to space available to install nozzle adaptor. The sensor to monitor temperature is installed to the underside of the extraction hood.

The system is designed for domestic gas and electric hob top cooking oil fires where a mechanical extractor cooker hood is fitted between 515 – 885mm of the cooktop surface, to the underside of the canopy and in accordance with the manufacturers fixing details.

Not for DIY/non registered installation.

The system has a low and high alarm level. An audible alarm sounds at 50° C to make the user aware that high temperatures have been detected, should the temperature fall back below this level the system will automatically be reset. Should the temperature continue to rise to 70° C the system will automatically discharge the wet chemical suppression agent, cut off fuel supply and provide signal to third party connection. A Building Management System output is fitted. A low PH liquid chemical suppressant is delivered via a/multiple nozzle(s). This suppressant both cools the burning oil and suffocates the fire forming a soapy foam over the cooking oil receptacle. This also prevents any potential flashback. Once the system is activated either the gas or electric fuel supply to the cooker hob is turned off.

There is no current standard covering residential fixed suppression systems however the system has an Intertek test report demonstrating compliance with the United States UL Subject 300A standard.

The system is intended as complimentary fire safety to the HMO (Home of Multiple Occupancy), student accommodation or to a dwelling for vulnerable persons where cooking oil fires are mostly likely to occur and where human intervention with fire fighting is not recommended.

The system is usually activated by the heat sensor but can also be manually activated by a manual call point and can be linked to a fire panel for Fire Brigade notification.

This system may be considered as part of a Fire Engineered Design to demonstrate compliance with AD B Vol 1 & 2 2006, BS 9991:2015 and BS 9999:2008.

For Scotland purposes:

There is no provision in the standards to cover these installations. They can be considered as an extra over and may be utilised in terms of a local authority view as to its capability to compensate for the lack of full suppression.

No product testing has been done by LABSS so they cannot define the effectiveness of the whole installation or the chemical components safety to humans on discharge.

## Conditions of Certificate

Designed for domestic and residential situations only.

A pre-engineered design from a qualified Fire Engineer must substantiate any proposed deviation from the deemed to satisfy provisions of AD B Vol 1 & 2 2006, BS 9991:2015 and BS 9999:2008

Must be attached to a suitable cooker hood type extractor fan positioned within the manufacturers fixing details.

The system must only be installed by a registered Flamefast UK accredited Installer in accordance with the Flamefast UK Installation Guide.

An annual servicing and maintenance contract must be entered into between Flamefast accredited Installer and the owner of the premises protected.

The Accredited Installer's contact details should be attached to the occupant guide provided post completion.

For Scotland purposes:

A pre-engineered design from a qualified Fire Engineer must substantiate any proposed deviation from the provisions of the relevant Mandatory Standards in Section 2: Fire, BS 9991:2015 and BS 9999:2008

LABC and LABSS consider that, Flamefast Kitchensafe fire suppression system will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;



## The Building Regulations 2010 (as amended) England & Wales

Regulation 7                      Materials and workmanship

Note:                                The system is acceptable.

AD B                                Fire Safety

Note:                                Subject to limitations detailed in the Conditions of Certificate section.



## The Building Regulations 2010 (as amended) England

AD B                                Fire Safety

Note:                                Subject to limitations detailed in the Conditions of Certificate section.



## The Building Regulations 2010 (as amended) Wales

AD B                                Fire Safety

Note:                                Subject to limitations detailed in the Conditions of Certificate section.



## The Building (Scotland) Regulations 2004 (as amended)

Technical Handbooks Domestic and Non-Domestic

Regulation 9                      Building Standards applicable to construction

Note:                                Construction shall be carried out so that the work complies with the applicable requirements of schedule 5.

Section 2                            Fire

Note:                                Subject to limitations detailed in the Conditions of Certificate section in relation to a pre-engineered design.

## Non-Regulatory Information



### LABC Warranty

The use of the Flamefast Kitchensafe fire suppression system has not been assessed to meet the requirements of the LABC Warranty Technical Manual. If you would like to discuss a specific use please make an enquiry to [technical.services@labcwarranty.co.uk](mailto:technical.services@labcwarranty.co.uk)

## Supporting Documentation

Intertek Report Number 100744297SAT-002 UL Subject 300A

Kitchensafe UK – Installation Guide, Service Manual and Operating Instructions

Kitchensafe UK – User Operations and Maintenance Manual. Version 1.0

Dr Sthamer (Hamburg) – FETTEX. Safety Data Sheet to Regulation (EC) No 1907/2006 (REACH)

## Contact Information

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