

# About Phil Murphy




I am an independent consultant advising landlords and responsible persons in relation to fire safety management of high-rise residential buildings (HRRB).

A former Firefighter and Fire Safety Enforcement Officer (GMFRS 1997-2009), Phil studied Fire Engineering (Tech Eng) through the IFE & has since gained ten years private sector experience of managing fire safety across national portfolios of large complex buildings. Author of HHSRS High Rise Addendum.

In the third year of researching HRRB fire safety data with Prof Stu Hodgkinson at University of Leeds

# Response Times

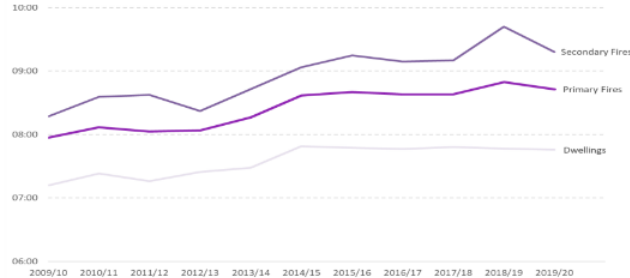
 Home Office

## Response times to fires attended by fire and rescue services, England, April 2019 to March 2020

This release presents statistics on the average response times to fire incidents in the financial year 2019/20 (1 April 2019 to 31 March 2020) for fire and rescue services (FRSs) in England.

**Key results**

The average total response time to **primary fires** in England in 2019/20 was 8 minutes and 43 seconds: a decrease of six seconds since 2018/19. Total response time to **secondary fires** in 2019/20 decreased by 24 seconds to 9 minutes 18 seconds compared with 2018/19. Response times have generally increased over the past decade.



| Year    | Secondary Fires | Primary Fires | Dwellings |
|---------|-----------------|---------------|-----------|
| 2009/10 | 08:30           | 08:00         | 07:10     |
| 2010/11 | 08:45           | 08:10         | 07:20     |
| 2011/12 | 08:50           | 08:05         | 07:15     |
| 2012/13 | 08:40           | 08:05         | 07:20     |
| 2013/14 | 08:50           | 08:10         | 07:30     |
| 2014/15 | 09:00           | 08:20         | 07:40     |
| 2015/16 | 09:10           | 08:25         | 07:45     |
| 2016/17 | 09:05           | 08:25         | 07:45     |
| 2017/18 | 09:10           | 08:25         | 07:45     |
| 2018/19 | 09:24           | 08:39         | 07:45     |
| 2019/20 | 09:18           | 08:43         | 07:45     |


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Date published: 14 January 2021

Frequency of release: Annual

Forthcoming releases: [Home Office statistics release calendar](#)

 NFCC National Fire Chiefs Council

About

## News

18-01-19

New fire response times statistics published by the Home Office

 FIRE BRIGADES UNION

THE PROFESSIONAL VOICE OF YOUR FIREFIGHTERS

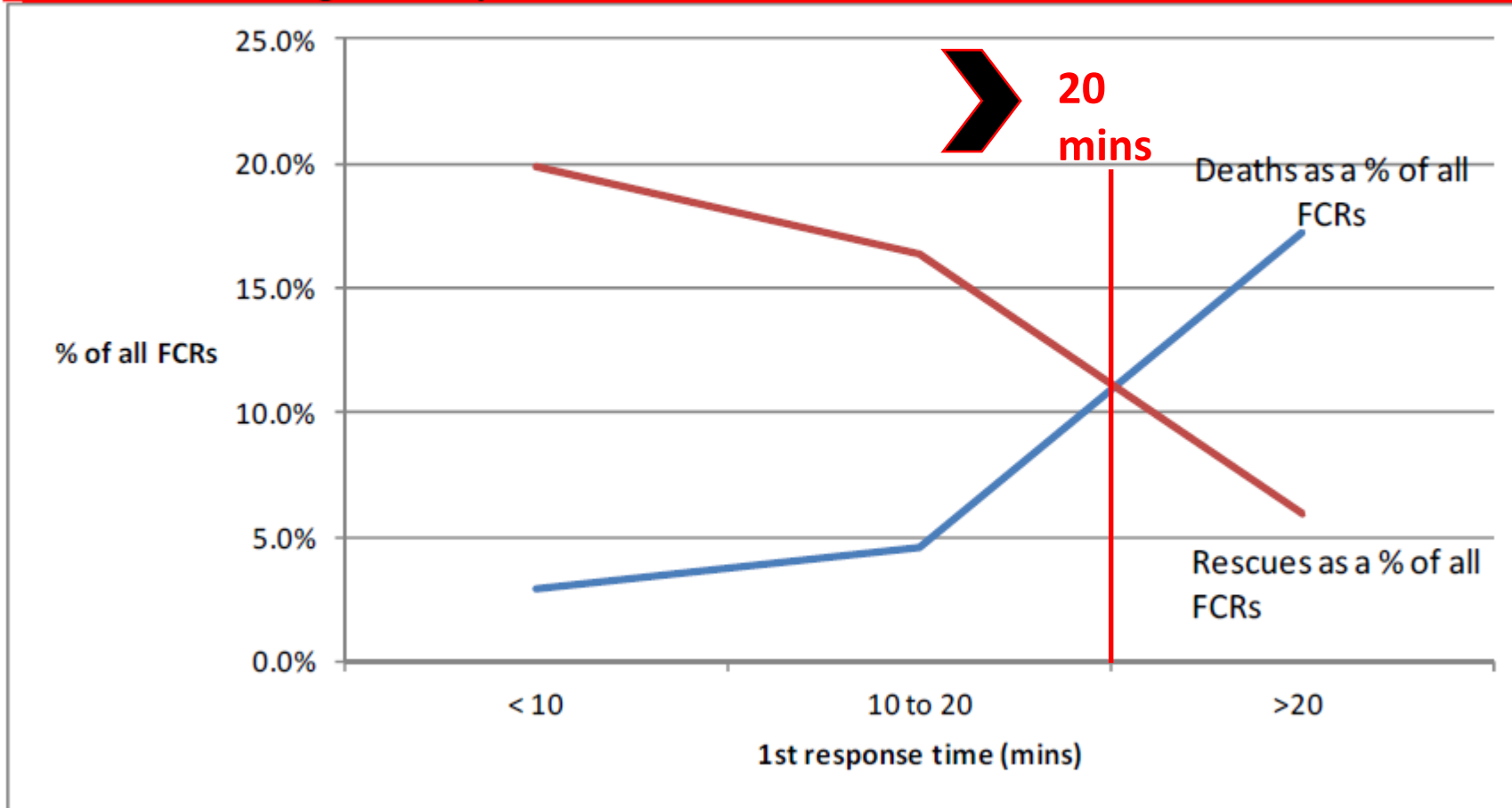
16 Jan

## Increase in fire response times could be “difference between life and death”

16 January 2020 [Cuts, Professional standards](#)

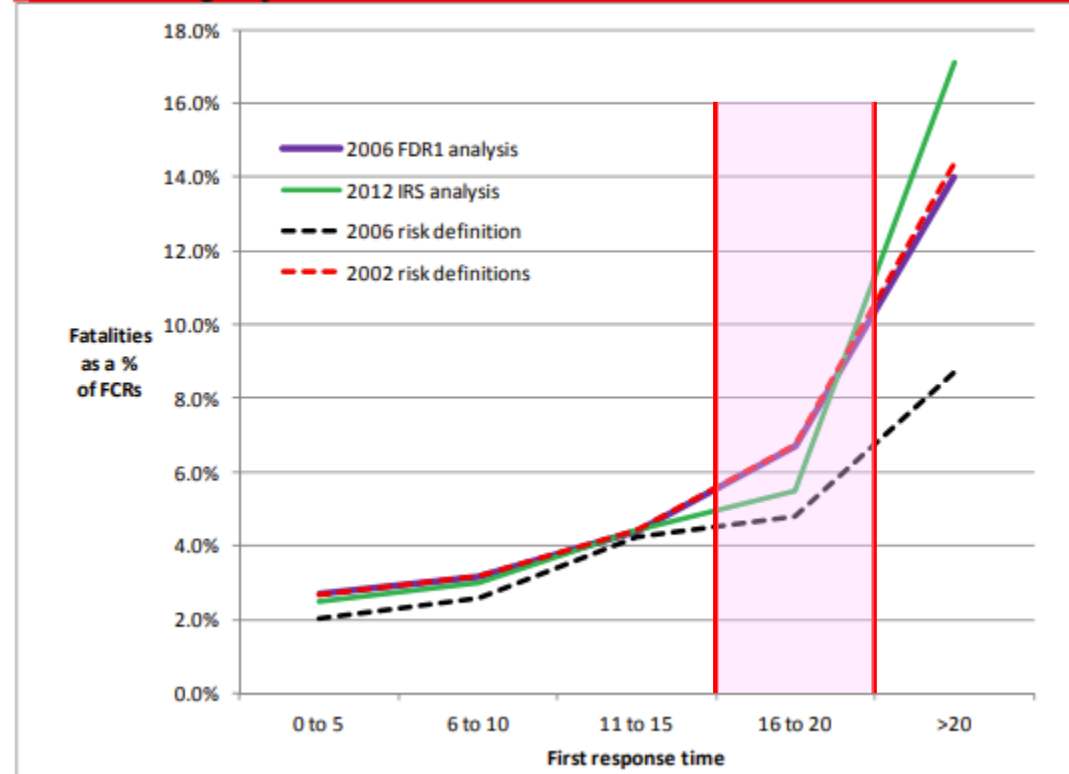


**Figure 15: Per cent of Fatalities, Casualties (all grades) and Rescues that die versus per cent that are rescued against response times**

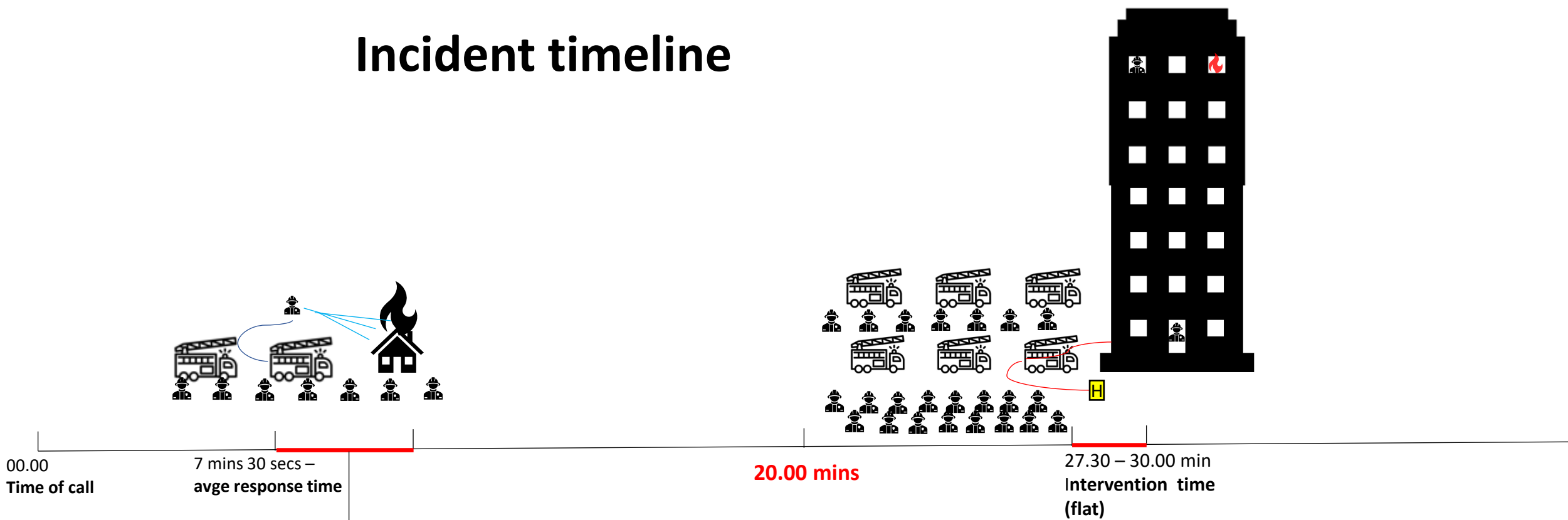




**Figure 16: Comparison of observed fatality rate relationships and previous Fire Service Emergency Cover functions**



# Incident timeline



High pressure hose reels are quick, simple, easy, light & fed from an integral water tank.

Firefighting in blocks of flats presents an abundance of challenges, at a time when **every second counts**

## Smoke propagation in residential buildings

The main report on the field experiments conducted in a residential building with internal corridors



## Research results


### Smoke propagation


In all the tests, smoke propagated outside the fire room through several horizontal and vertical routes and sub-routes. This involved both horizontal and vertical smoke propagation to different rooms in the residential building. This means that if only part of a sofa is burning in one room, high-risk situations will occur in several locations in the residential building.


# Smoke propagation in residential buildings


The main report on the field experiments conducted in a residential building with internal corridors


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 Smoke propagation in residential buildings  
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 Appendix 1. Comparison between the ISO standard SFPE handbook and AEGL  
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 Appendix 12. Data analysis for the possibility of escape and survivability  
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 Appendix 16. Overview measurement data per sensor and test  
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 Key appendix 16  
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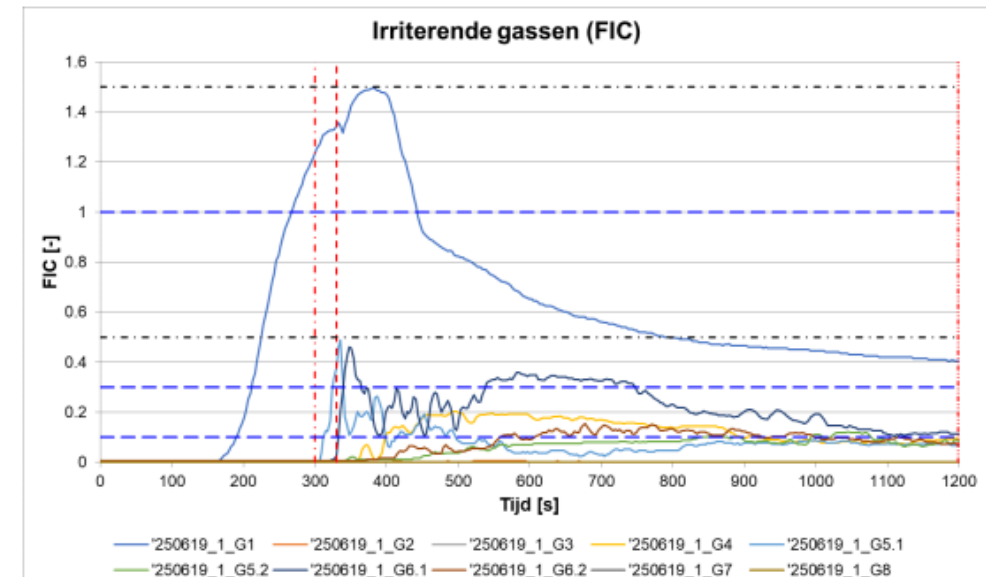
 Key appendix 21  
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 Appendix 21. Overview calculated times and development different methods for the possibility of escape and survivability  
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## Appendix 21. Overview calculated times and development different methods for the possibility of escape and survivability

B. Escape phase (0 - 20 minutes)

Irritant gases



# Gov data - Fires that spread in blocks of flats

## FIRE STATISTICS TABLE 0203: Dwelling fires<sup>1</sup> by dwelling type, spread of fire<sup>2</sup> and motive<sup>3</sup>, England

Select a year and a subset of primary dwelling fires<sup>4</sup> from the drop-down list in the orange boxes below:

| 2019/20                            |               |                          |  |  |  |                                       |                                     |                               |                |  |
|------------------------------------|---------------|--------------------------|--|--|--|---------------------------------------|-------------------------------------|-------------------------------|----------------|--|
| Total dwelling fires               |               |                          |  |  |  |                                       |                                     |                               |                |  |
|                                    |               | Dwelling Type            |  |  |  |                                       |                                     |                               |                |  |
| Spread of fire                     | Total fires   | House - single occupancy | Bungalow - single occupancy <sup>5</sup> | Converted Flat/Maisonette - single occupancy | Purpose Built Low Rise (1-3) Flats/Maisonettes | Purpose Built Medium Rise (4-9) Flats | Purpose Built High Rise (10+) Flats | Dwelling - multiple occupancy | Other dwelling |  |
| <b>Total</b>                       | <b>28,447</b> | <b>14,553</b>            | <b>1,575</b>                             | <b>2,046</b>                                 | <b>4,840</b>                                   | <b>1,902</b>                          | <b>775</b>                          | <b>628</b>                    | <b>2,128</b>   |  |
| Limited to item 1st ignited        | 9,212         | 4,395                    | 431                                      | 716  | 1,654  | 824                                   | 307                                 | 167                           | 718            |  |
| Limited to room of origin          | 6,924         | 3,905                    | 340                                      | 502  | 1,030  | 458                                   | 179                                 | 219                           | 291            |  |
| Limited to floor of origin         | 1,949         | 1,108                    | 97                                       | 156  | 344  | 101                                   | 49                                  | 50                            | 44             |  |
| Limited to 2 floors                | 528           | 375                      | 7  | 55   | 51   | 21                                    | 1                                   | 14                            | 4              |  |
| Affecting more than 2 floors       | 159           | 121                      | 0  | 8  | 10   | 8                                     | 3                                   | 8                             | 1              |  |
| Whole building                     | 447           | 228                      | 58                                       | 8  | 13   | 2                                     | 0                                   | 1                             | 137            |  |
| Roofs and roof spaces <sup>6</sup> | 594           | 423                      | 74                                       | 25   | 38   | 7                                     | 4                                   | 11                            | 12             |  |
| No fire damage <sup>7</sup>        | 8,634         | 3,998                    | 568                                      | 576  | 1,700  | 481                                   | 232                                 | 158                           | 921            |  |

1 Dwelling fires are fires in properties that are a place of residence i.e. places occupied by households such as houses and flats, excluding hotels/hostels and residential institutions. Dwellings also include non-permanent structures used solely as a dwelling, such as houseboats and caravans, HMOs, Self contained Sheltered Housing, Stately Homes and Castles

2 Spread of fire is defined as the extent of flame and heat damage only at the fire's stop. This does not include smoke or other damage (such as water damage).

3 The motive for the fire can be recorded as one of: Accidental, Deliberate or Not Known. For the purpose of these tables accidental is defined as when the motive was recorded as

4 Primary fires are defined as fires that meet at least one of the following conditions:

[FIRE0203: Dwelling fires by spread of fire and motive](#)

2019 – 2020 36 times fire spread over >2 floors, on average every ten days.

## Worsley, Manchester, December 2017



A plumber extended an external copper overflow pipe

After six days it still wasn't extinguished, it was felt demolition was the only sure way of doing so.





## C-TEC Hush ActiV Grade C Domestic Fire Alarm Kit (HAK/1)

Product Code: HAK/1 Customer Rating: ★★★★★

### C-TEC Hush ActiV Grade C Domestic Fire Alarm Kit (HAK/1) Key Features

- Grade C domestic fire detection & alarm system to BS 5839-6 (2019) for use in individual flats, houses and apartments

£174.77 Ex Vat

£209.72 Inc Vat

In stock: ✓

Quantity:

Add to Basket





# StaySafe Home Fire Safety Kit

£28.99



## Drager 5500 Parat Fire Escape Hood

« MSA S-Cap Hood



Around £100 to £200

- Meet
- Organise
- Plan

# Questions?

[@HRRBFireSafety](#)

<https://www.hrrbfiresafety.com/>

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