

PRIVATE & CONFIDENTIAL

REGULATORY REFORM (FIRE SAFETY) ORDER 2005

Fire Risk Assessment

SERVICE AREA: Housing Services



Assessed Area: Hanover Court > All Areas

Responsible Person: Will Barfield

Manager: Fire Safety Compliance

Risk Assessor: Fire Safety Compliance

Date of Inspection: 07 May 2023

Recommended Review Date: 07 May 2024



Executive Summary

This assessment records the fire safety measures in place at the time the assessment was conducted, and lists significant findings and a recommended appropriate remedial action. It also provides guidance for the Responsible Person on how to maintain a satisfactory standard of fire precautions within the building concerned. The subject areas concerned are;

Responsible Person

The Responsible Person should ideally hold a senior or at least a responsible position within the company and have sufficient authority to allocate and mobilise finances and to control and organise members of staff.

Manager

In the context of this report the Manager is the person who will receive all the actions found during the assessment and will allocate them to the relevant people to get the risk removed or reduced to a manageable level.

Competent Persons

Competent Persons (Fire Wardens) are employees that have had additional instruction and training in fire safety, they are there to assist the responsible person in fulfilling their statutory duties.

Managing Fire Safety

Good management of fire safety is essential to ensure that fires are unlikely to occur; that if they do occur they are likely to be controlled quickly, effectively, and safely, and that everyone should be able to escape to a place of safety easily and quickly.

Record Keeping

In the event of a fire in the workplace you may need to provide evidence to the enforcing authorities when asked that you have complied with the fire regulations. It is helpful to keep a dedicated record of all maintenance of fireprotection equipment and staff training. In all cases the quality of records may be regarded as a good indicator to the enforcing authorities of the overall quality of the fire safety management structure.

Building Occupancy

Some buildings may have two or more main uses that are not ancillary to one another. For example offices over shops from which they are independent. In such cases, each of the uses should be considered as belonging to a purpose group in its own right. In other cases and particularly in some large buildings, there may be a complex mix of uses. In such cases it is necessary to consider the possible risk that one part of a complex may have on another and special measures to reduce the risk may be necessary.

Fire Alarm

All buildings or occupied areas should have arrangements for detecting fire, where a work place is equipped with fire detectors and alarms they should be in operational order whilst the premises are occupied and be maintained and tested to comply with the relevant code of practice.

Emergency Lighting

The primary purpose of emergency escape lighting is to illuminate escape routes, but it is also required to illuminate safety equipment such as firefighting equipment, fire alarm call points, and safety signage. The size and type of your premises will determine the complexity of the emergency escape lighting required. Where installed it should be in good working order and maintained to comply with the relevant code of practice.

Compartmentation/Fire-stopping

The spread of fire within a building or area can be restricted by sub-dividing it into compartments separated from one another by walls and/or floors of fire-resisting construction. The object is twofold:

- a) to prevent rapid fire spread which could trap occupants of the building; and
- b) to reduce the chance of fires becoming large, on the bases that large fires are more dangerous, not only to occupants and fire and rescue personnel, but also to people in the vicinity of the building.

Fire Fighting Equipment

You have a responsibility for the provision of appropriate fire-fighting equipment. It is also your responsibility to check that all fire-fighting equipment is in the correct position and in satisfactory order before the premises is used.

Means of Escape

A Route or routes provided to ensure safe egress from the premises or other locations to a place of safety. The general principle for means of escape is that any person confronted by an outbreak of fire within a building can turn away from it and make a safe escape initially to a place of relative safety, a protected stair, or corridor; which should lead to a place of ultimate safety which should be clear and free of the building.

Hazards: Arson/heating/smoking/cooking/electricity

The first step in the assessment is the identification of fire hazards. In determining these hazards, account should be taken of the three most common causes of fire, which together account for around two-thirds of all fires. These are arson, smokers' materials and electrical faults.

Further consideration should be given to other recognised or common causes of fire, such as heating appliances, cooking and contractors' operations.

Fixed installations

These are fire-fighting systems which are sometimes installed within the structure of the building and could include hose-reels and sprinkler systems.

Contractors & industrial processes

Carelessness by outside contractors is a common cause of fire, including many fires that result in serious financial loss. Cutting, welding and use of blow torches are particular sources of ignition,

Not all of such works are caused by outside contractors. It has been estimated, however, that perhaps 20-25% of all non-domestic fires result from on-going work', such as refurbishment, repair and construction. The Building occupants/employees should be informed as to the significant findings of assessments. The following should be displayed for the benefit of all occupants and visitors.

- A copy of the building plan indicating the means of escape (where escape routes are complex and building occupants are not familiar with the building).
- Details of any significant findings
- Details of the Responsible Person

It is considered that the building occupants/users will include employees, contractors, visitors and emergency service personnel as well as any other person who may be in and around the premises.

Ownership of the Fire Risk Assessment

Regardless of whether the fire risk assessment is carried out by, for example, staff from an outside organisation, or a third party fire risk assessor, the ultimate responsibility for the adequacy of the risk assessment rests with the "responsible person" defined by legislation as responsible for ensuring that the fire risk assessment is carried out and that the fire precautions are adequate.

Introduction

For the Responsible Person at these premises, this document provides information regarding the standard of fire safety observed, and serves as a record as required by The Regulatory Reform (Fire Safety) Order 2005 and the

Management of Health and Safety at Work Regulations 1999.

The RRO places a requirement for all responsible persons to:

- Appoint one or more competent persons, depending on the size and use of the premises, to carry out any of the preventative and protective measures required by the Order.
- Provide your employees with clear and relevant information on the risks to them identified by the fire risk assessment, and about the measures you have taken to reduce the risks and prevent fire occurring.
- Consult your employees or their elected representatives about nominating people to carry out particular roles in connection with fire safety and improving the general fire precautions in the workplace.
- Before you employ a child, provide a parent or guardian with clear and relevant information regarding the risks to that child that have been identified in the fire risk assessment, and the measures you have or propose to put in place to safeguard that child.
- Inform non-employees, such as contractors and temporary workers of the risks to them, and provide them with information as to the nominated competent persons, and the general fire precautions provided in the workplace.
- Co-operate and co-ordinate with other building or site responsible persons regarding the findings of your risk assessment which may affect the safety of their employees.
- Provide the employer of any person from an outside organisation who may be working on your premises with relevant information as to the risks to them as outlined in your risk assessment, and the preventative and protective measures taken to secure their safety.
- If you are not the employer but have any control of premise which contain more than one workplace, you are responsible for ensuring that the requirements of the Order are complied with in those parts over which you have control.
- Consider the presence of any Hazardous or dangerous substances and the risk that they present to the occupants of the building, and undertake further assessment in the form of a Dangerous Substance Explosive Atmosphere Regulations assessment (DSEAR) assessment.
- Establish a suitable means of contacting the emergency services and providing them with relevant information regarding the storage or use of dangerous substances.
- Provide appropriate information, instruction and training to you employees, during normal working hours, about the fire precautions in your premises , when they first start working for you, (induction training) and from time to time during their employment (refresher training).
- Ensure that the premises are provided with appropriate fire-fighting equipment, fire detection and warning and emergency routes and exits, and that any equipment provide is maintained by competent persons and in efficient working order, good repair and fir for purpose.
- Your employees must co-operate with you to ensure that the premises are safe from fire and its effects, and must not do anything that will place themselves or other people at risk.

RISK PROFILE

To determine the appropriate means of escape and design features of the building, for life safety, a Risk Profile has been established following the methodology detailed in the current edition of 'BS9999: Code of practice for fire safety in the design, management and use of buildings'. This calculation is based on two main factors: occupancy characteristic and fire growth rate.

Once the risk profile has been determined, the minimum package of fire safety measures that should be provided, in accordance with BS9999, such as: travel distance, stair and exit widths and level of fire alarm and detection can be established.

Establishing the Risk Profile gives scope for a more interpretative approach, on a case by case basis, which takes into account the specific features of an individual building. This is especially significant when considering the issue of escape routes and fire exits in existing premises, particularly if they are of an historical or heritage nature.

Variation of the risk profile can be achieved by looking at existing and/or additional measures, which could be provided beyond what is determined as the minimum standard by BS9999. This allows for a more flexible approach to determine the fire safety measures that are required as an alternative to following other prescriptive guidance.

Risk Profile Matrix

Occupancy Characteristic	Fire Growth Rate			
	Slow	Medium	Fast	Ultra-Fast
Occupants awake & familiar with building	A1	A2	A3	Unacceptable without the addition of an effective localized suppression system or sprinklers
Occupants who are awake and unfamiliar with the building	B1	B2	B3	
Occupants who are likely to be asleep; long-term individual occupancy	Ci1	Ci2	Ci3	
Occupants who are likely to be asleep; long-term managed occupancy	Cii1	Cii2	Cii3	
Occupants who are likely to be asleep; short-term occupancy	Ciii1	Ciii2	Ciii3	
Other	Property is outside the scope of BS9999			

Your Risk Assessment Summary

Summary of Areas Requiring Attention

Risk Level Key: Trivial Risk Tolerable Risk Moderate Risk Substantial Risk Intolerable Risk

FIRE PROTECTION MEASURES

Means of Escape

Means of Giving Warning in Case of Fire

Measures to Limit Fire Spread and Development

MANAGEMENT OF FIRE SAFETY

Procedures and Arrangements

Greater detail on the areas requiring attention can be found in the relevant sections of this document.

Summary of Findings and Action Plan

Section	Risk Grading	Finding and Action Required	Photo Y N	Job No / Date work
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				complete
Means of Escape	-	<p>Is it considered that the premises are provided with reasonable means of escape in case of fire?: <i>N/A</i></p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>The means of escape are not ideal when compared to current benchmark standards, but reasonable given the age and features of the building if other measures are addressed as per the recommendations for action contained in this and other sections of this report.</p>	N	
Means of Escape	-	<p>Adequate design of escape routes?: <i>N/A</i></p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>As above</p>	N	
Means of Escape	-	<p>Adequate provision of exits?: <i>Yes</i></p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>Exits are at the walkways and into the two main staircases with an open exit at the base of the stairs leading to ultimate safety.</p>	N	
Means of Escape	-	<p>Exits easily and immediately openable where necessary?: <i>N/A</i></p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>There are no final exit doors in any local or on any level in the building - access is open.</p>	N	
Means of Escape	-	<p>Fire exits open in direction of escape where necessary?: <i>N/A</i></p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>See above.</p>	N	
Means of Escape	-	<p>Avoidance of sliding or revolving doors as fire exits where necessary?: <i>N/A</i></p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>See above.</p>	N	
Means of Escape	-	<p>Satisfactory means for securing exits?: <i>N/A</i></p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>As above</p>	N	
Means of Escape	-	<p>Reasonable distances of travel: Where there is a single direction of travel?: <i>Yes</i></p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>Depending on the benchmark technical approach taken (balcony access) the travel distances are acceptable. However, other areas of this report make reference to smoke venting and how this is potentially limited impacting on the travel distances from different parts of the building.</p>	N	
Means of Escape	-	<p>Reasonable distances of travel: Where there are alternative means of escape?: <i>Yes</i></p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>Depending on the benchmark technical approach taken (balcony access) the travel distances are acceptable. However, other areas of this report make reference to smoke venting and how this is potentially limited impacting on the travel distances from</p>	N	

		different parts of the building.		
Means of Escape	Tolerable Risk	<p>Suitable protection of escape routes including provision of fire doors/hatches including to roof voids, individual dwellings/flats, compartment doors, riser cupboard doors and risk rooms?: <i>No</i></p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>An inspection of the storage/electrical cupboard doors revealed that the doors are non fire rated and the integrity of the door set and therefore the escape route may be compromised.</p> <p>Actions Required</p> <p>⊗ Storage cupboard doors - upgrade/replace</p> <p><i>An inspection of the storage cupboard doors revealed that the doors are non fire rated and the integrity of the door set and therefore the escape route may be compromised. These doors should be added to the program of works for upgrading or replacement. The doors are secure without openings at the top and bottom (like Kingsway). From being able to observe one cupboard (empty and unlocked) there is no power supply so no ignition source.</i></p> <p>— complete by 04 Jul 2023 to reduce the risk by 50%</p> <p>⊗ Electrical cupboard doors - upgrade/replace</p> <p><i>An inspection of the electrical cupboard doors revealed that the doors are non fire rated and the integrity of the door set and therefore the escape route may be compromised. These doors should be added to the program of works for upgrading or replacement.</i></p> <p>— complete by 16 May 2024 to reduce the risk by 50%</p>	N	
Means of Escape	-	<p>Suitable fire precautions for all inner rooms?: <i>N/A</i></p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>No inner rooms present.</p>	N	
Means of Escape	-	<p>Escape routes unobstructed?: <i>Yes</i></p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>See Housekeeping above</p>	N	
Means of Escape	-	<p>It is considered that the premises are provided with reasonable arrangements for means of escape for disabled people.: <i>N/A</i></p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>The building was not designed to accommodate disabled persons/PRM. Any issues with individual occupants being able to escape should be identified through a PCFRA (person centred fire risk assessment).</p>	N	
Means of Escape	Tolerable Risk	<p>Suitable protection of escape routes including provision of fire doors/hatches including to roof voids, individual dwellings/flats, compartment doors, riser cupboard doors and risk rooms?: <i>No</i></p> <p>📍 First floor (First Floor)</p> <p>Finding</p> <p>Escape route fire protection - the glass block wall may not provide the same level of fire resistance as the flat entrance door. This could allow fire and smoke to enter the escape route.</p> <p>Actions Required</p> <p>⊗ Escape route separation - not FR</p>	Y	

		<p><i>The external wall to flat 18 on the first floor is constructed of glass blocks. This flat is at the base of the escape staircase and was the former caretakers flat. It is believed to be an original constructional feature.</i></p> <p><i>An inspection in 2019 was unable to confirm that it provides the required fire resistance (integrity/insulation/stability) to protect the escape route.</i></p> <p><i>Options should be considered to remedy this and might include: replacing the wall or, providing a protected inner hallway or, linking fire detection in flat 18 to the flats above on the escape staircase.</i></p> <p>— complete by 23 Jun 2021 to reduce the risk by 100%</p>	
Means of Escape	Substantial Risk	<p>Suitable protection of escape routes including provision of fire doors/hatches including to roof voids, individual dwellings/flats, compartment doors, riser cupboard doors and risk rooms?: <i>No</i></p> <p>📍 Hanover Court, Coronation Street, Cambridge</p> <p>Finding</p> <p>A survey of flat entrance doors and the door furniture in 2019 revealed that the doors on escape routes were non fire rated doors. The majority of tenant doors (50/51) in the blocks were replaced in 2020/21. However, leasehold doors are still mostly non-compliant.</p> <p>Actions Required</p> <p>⊗ Leaseholder Flat entry doors-non FR</p> <p><i>All leasehold doors in a recent survey (end of 2019) were identified as HIGH priority as they are non fire rated flat entry doors and need to be replaced with an FD30S standard door.</i></p> <p><i>Leaseholders were written to in 2020 and offered a replacement door as part of the Councils program of work. However, many of the doors across the block remain non-compliant. The Council should continue to pursue flat entry door replacement where there is non-compliance. The Leasehold Team are currently in the process of writing to leaseholders again to request evidence of compliance.</i></p> <p>— complete by 12 Apr 2022 to reduce the risk by 50%</p> <p>⊗ Tenanted Flat entry doors-non FR</p> <p><i>The majority of tenant doors (50/51) in the blocks were replaced in 2020/21.</i></p> <p><i>The Council should continue to pursue flat entry door replacement where there is still non-compliance.</i></p> <p>— complete by 12 Apr 2022 to reduce the risk by 50%</p>	Y
Measures to Limit Fire Spread and Development	Substantial Risk	<p>It is considered that there is: Compartmentation of a reasonable standard including external faces of buildings: <i>No</i></p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>Compartmentation does not appear to be to the required fire resistance. Following fires in blocks of similar design breaches in the service riser became apparent. The design of the riser in this block is very similar and likely to present the same issues allowing smoke and possibly fire spread through the building affecting other occupants away from the compartment of origin.</p> <p>Actions Required</p> <p>⊗ Compartmentation to provide 60 minutes fire resistance in blocks above of 6 storeys</p> <p><i>There is a requirement for compartmentation to provide 60 minutes fire resistance in blocks of 6 storeys and above.</i></p> <p>— complete by 23 Sep 2021 to reduce the risk by 50%</p> <p>⊗ Structural investigation-breach of compartment wall/floor and external wall system</p>	N

		<p>Further structural investigation is required to ascertain the consequence of the compartmentation breach, to establish if the following actions are required:</p> <ul style="list-style-type: none"> • Type 2, 3 or 4 Fire Risk Assessment. • Change to the Fire Strategy of the building from “Stay Put” to Simultaneous Evacuation or other evacuation strategy as appropriate. • Installation of Automatic Fire Detection System <p>The survey should include a fire risk appraisal of the external wall system (PAS 9980) to inform the Building Safety Case under The Building Safety Act 2022.</p> <p>— complete by 23 Dec 2020 to reduce the risk by 50%</p>		
Measures to Limit Fire Spread and Development	-	<p>It is considered that there is: Reasonable limitation of linings that might promote fire spread: Yes</p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>Escape routes are mostly sterile with non-combustible linings (Believed to be Class O/B-s3,d2 - subject to test).</p>	N	
Measures to Limit Fire Spread and Development	-	<p>As far as can reasonably be ascertained, fire dampers are provided as necessary to protect critical means of escape against passage of fire, smoke and combustion products in the early stages of a fire?: N/A</p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>See recommendation above regarding compartmentation/service risers.</p>	N	
Measures to Limit Fire Spread and Development	Tolerable Risk	<p>It is considered that there is: Compartmentation of a reasonable standard including external faces of buildings: No</p> <p>📌 Complete building (Complete Building)</p> <p>Finding</p> <p>The materials on the external face of the building and/or the installation methods and materials could not be determined and appeared to be of sufficient amounts to be regarded as likely to contribute to external fire spread unless of a non-combustible material and should be examined/tested and the installation confirmed.</p> <p>Balconies have been enclosed by residents. It is not known if these were authorised and compliant with building regulations.</p> <p>Actions Required</p> <p>⊗ External balconies-testing</p> <p><i>The materials on the external face of the building and/or the installation methods and materials could not be determined and appeared to be of sufficient amounts to be regarded as likely to contribute to external fire spread unless of a non-combustible material and should be examined/tested and the installation confirmed. (Government cladding ban for combustible cladding on buildings limits materials to products achieving a European Classification of Class A1 or A2-s1,d0 when tested in accordance with BS EN 13501-1 :2007+A1:2009. This also includes balconies attached to external walls as regarded by building regulations as specified attachments and above 18m are subject to the same requirements and must achieve the same European Classification. Below this height the specified attachment should be risk assessed and appropriate measures implemented).</i></p> <p><i>There are a number of balcony enclosures that may have fire safety implications both internally and externally and require further investigation and assessment.</i></p> <p>— complete by 04 Jul 2023 to reduce the risk by 50%</p> <p>⊗ Resident use of balconies</p> <p><i>It was not possible for the assessor to externally check by observation the use of all the resident balcony spaces given the height of the building. In discussing this with the caretaker there are some balconies of concern (flats 15 and 20) that may present additional fire hazards. With the support of the housing management team these should be investigated, and information provided to residents more generally about the</i></p>	Y	

		<p>usage of balconies.</p> <p>— complete by 04 Jan 2023 to reduce the risk by 50%</p>		
Measures to Limit Fire Spread and Development	Trivial Risk	<p>It is considered that there is: Compartmentation of a reasonable standard including external faces of buildings: <i>No</i></p> <p>📍 Hanover Court, Coronation Street, Cambridge (Third Floor)</p> <p>Finding</p> <p>Refuse chute cover missing - this could lead to smoke from a bin room fire emerging on the landing/walkway although this is at the end of the walkway so its impact would not be so significant on the means of escape.</p> <p>Actions Required</p> <p>⊗ Refuse chute cover missing</p> <p><i>The refuse chute cover near the lift on the 3rd floor walkway is missing and should be replaced.</i></p> <p>— complete by 16 Nov 2023 to reduce the risk by 100%</p>	Y	
Means of Giving Warning in Case of Fire	-	<p>Reasonable manually operated electrical fire alarm system provided?: <i>N/A</i></p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>There is no communal fire alarm system.</p>	N	
Means of Giving Warning in Case of Fire	-	<p>Automatic fire detection provided- Part of the premises only?: <i>Yes</i></p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>Flat units only have fire detection believed to be BS 5839-6 systems providing at least LD3 coverage.</p>	N	
Means of Giving Warning in Case of Fire	Substantial Risk	<p>Extent of automatic fire detection generally appropriate for the occupancy and fire risk?: <i>No</i></p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>The premises should be provided with an appropriate fire warning system to a correct grade and with a correct detection level according to the occupancy, design and use of the building.</p> <p>Actions Required</p> <p>⊗ Fire warning system-correct grade/detection</p> <p><i>In light of recent findings concerning compartmentation (service risers) and flat entrance doors, subject to further investigations/survey, the premises should be provided with an appropriate fire warning system to provide early warning to residents of a fire in other parts of the building which could facilitate full evacuation of a specific area of the block.</i></p> <p><i>Based on the findings of a compartmentation survey, additional fire detectors in flats should be considered as an interim measure until the building is emptied for redevelopment.</i></p> <p>— complete by 23 Mar 2021 to reduce the risk by 100%</p>	N	
Procedures and Arrangements	-	<p>Competent person(s) appointed to assist in undertaking the preventive and protective measures (i.e. relevant general fire precautions)?: <i>Yes</i></p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>The Council has a fire safety advisor in place to assist Estates and Facilities/Compliance Team.</p>	N	

Procedures and Arrangements	-	<p>Is there a suitable record of the fire safety arrangements?: Yes</p> <p><input type="checkbox"/> Complete building (Complete Building)</p> <p>Finding</p> <p>The Fire Risk Management Strategy includes blocks of flats.</p>	N	
Procedures and Arrangements	-	<p>Appropriate fire procedures in place?: Yes</p> <p><input type="checkbox"/> Complete building (Complete Building)</p> <p>Finding</p> <p>Fire procedures (stay put) are displayed in Fire Action Notices around the block. Where required these should be updated and the information shared with residents.</p>	N	
Procedures and Arrangements	Tolerable Risk	<p>Are procedures in the event of fire appropriate and properly documented?: No</p> <p><input type="checkbox"/> Complete building (Complete Building)</p> <p>Finding</p> <p>Resident fire safety information</p> <p>Actions Required</p> <p><input checked="" type="checkbox"/> Resident fire safety information - provide</p> <p><i>To comply with The Fire Safety (England) Regulations 2022, residents should be supplied with fire safety information and instruction appropriate to the building to include what to do in the event of a fire and the importance of a flat entrance fire door (where installed).</i></p> <p><i>— complete by 16 Aug 2023 to reduce the risk by 100%</i></p>	N	
Procedures and Arrangements	-	<p>Are there suitable arrangements for summoning the fire and rescue service?: N/A</p> <p><input type="checkbox"/> Complete building (Complete Building)</p> <p>Finding</p> <p>Residents would be expected to call the FRS.</p>	N	
Procedures and Arrangements	-	<p>Are there suitable arrangements to meet the fire and rescue service on arrival and provide relevant information, including that relating to hazards to fire-fighters?: No</p> <p><input type="checkbox"/> Complete building (Complete Building)</p> <p>Finding</p> <p>Information available for firefighters on arrival at the premises requires updating.</p> <p>Actions Required</p> <p><input checked="" type="checkbox"/> Information to firefighters (SIB)</p> <p><i>Ensure the Secure information box (SIB) contains all information relevant to the emergency services. In particular in the case of the fire service, provide keys to the fire warning panel/s, relevant site and floor plans annotated with, or; separate details of hazards and risk rooms, as well as a vulnerability list where appropriate.</i></p> <p><i>This should include evacuation arrangements, risks and location of residents - note. the current plans date from October 2007.</i></p> <p><i>Once any PCFRAs have been carried out any relevant information/PEEPS should be held in the SIB.</i></p> <p><i>Following further liaison with CFRS additional plans/information relating to the layout/numbering of flats might be required to be held in the PIB.</i></p> <p><i>May 2023 - A contractor has been engaged to update the fire plans in line with the latest guidance for SIB/ERP.</i></p> <p><i>— complete by 23 Mar 2021 to reduce the risk by 100%</i></p>	N	
Procedures and Arrangements	Substantial Risk	<p>Are there adequate procedures for evacuation of any disabled people who are likely to be present?: No</p>	N	

Arrangements		<p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>Procedures for people with restricted mobility (PRM) and/or who are vulnerable to be confirmed through person centred fire risk assessments (PCFRA).</p> <p>Actions Required</p> <p>✖ PRM procedures</p> <p><i>An action point from the recent specific fire risk assessment (SFRA) is to establish if there are residents who need assistance to evacuate their flat given the suspension of the stay put policy established through PCFRAs.</i></p> <p><i>On completion of this survey PEEPs maybe required for individual residents with copies kept in the secure information box (SIB).</i></p> <p><i>— complete by 23 Mar 2021 to reduce the risk by 100%</i></p>		
Procedures and Arrangements	-	<p>Persons nominated and trained to use fire extinguishing appliances?: N/A</p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>Fire extinguishers may still be kept in caretakers office</p>	N	
Procedures and Arrangements	-	<p>Appropriate liaison with fire and rescue service (e.g. by fire and rescue service crews visiting for familiarization visits)?: Yes</p> <p>📍 Complete building (Complete Building)</p> <p>Finding</p> <p>Should CFRS require site visits this can be facilitated.</p> <p>Building plans have been supplied to CFRS in accordance with the FS(E) Regs 2022.</p>	N	

⚠️ Assessment Details

URN 1367-3

Overall Building Risk Rating Substantial Risk

Assessed building OR area name OR No Hanover Court > All Areas

Risk Assessor Fire Safety Compliance
✉ firesafety@cambridge.gov.uk

Date of Assessment 07 May 2023

Validated By Renier Barnard

Date of Validation 22 Jun 2023

📁 Client Details

Name Cambridge City Council

Address 1 Mandela House

Address 2 4 Regent St


Town Cambridge

Post Code


🏠 Premises Description

Number of Floors	8 storeys: Ground + seven floors >18M
Approximate floor area	NA
Building Construction and Layout	<p>Constructed approx 1968 - concrete block and beam + brick. Flat asphalt roof. There is no external cladding, only masonry walls. The building would have been built to design codes at that time. It is not thought that there have been any significant upgrades from a fire safety perspective other than to fit a smoke alarm in each flat.</p> <p>Building description: There are 78 one/two-bedroom flats which form separate fire compartments with service risers running the full height of the building believed to contain bathroom ventilation, SVP's, electrics, water and gas pipework (see comment in report re gas appliances). There is access to these at ground floor level opposite flat entrances and possibly from other locations in the block. From the recent fires in this and other similar blocks of flats (Kingsway) it is not thought these are adequately fire separated from the flats themselves (see sections below). Flats have recessed balconies constructed of non-combustible materials. 50 of 51 tenant flat entrance doors have been replaced by the Council with FD30S compliant doors. Most of the leasehold flat entrance doors, of which there are 27, appear not to be FD30S, although 2 leaseholders have purchased CCC standard FD30S doors.</p> <p>There is a full length walkway at 3rd and 6th floor levels with a full height unprotected staircase at each end of the block with approx. 60m between staircases. There are three sets of short staircases off each walkway, serving one level above and below only. Staircase widths are minimal (approx 800mm) and not designed for full evacuation.</p> <p>Ground floor flats have access at the front and rear of the block. First floor flats are accessed (in pairs) by individual external single storey staircases at the rear of the building. 2nd and 4th floor flats are accessed off the 3rd floor walkway. 5th and 7th floor flats are accessed off the 6th floor walkway - this arrangement means a pair of flats can be reached by going either down a level or up a level from the same entry point off the walkway. The escape staircase at each end of the block provides an alternative means of escape for most, but not all, flats. There is also a pair of flats at each level off these staircases.</p> <p>The walkway is undivided and quite deep (at least 3m) with no dedicated down stands to channel smoke away. The walkway is open on one side, but also partially enclosed by storage cupboards. There is a passenger lift at the north end of the block - it is not an emergency evacuation lift, but appears to have controls for firefighters to use it in the event of a fire (see report for an action concerning the status of these).</p> <p>There is a refuse chute at each end of the 3rd and 6th floor off the walkways; one is off the south staircase with its own access landing, setting this facility back and away from the block. The other chute is at the north end of the walkway near the lift. Both chutes are contained in a full height shaft with bins at the base in a secure storage area. Resident storage cupboards are located in the escape routes on each walkway and on most landings. There could also be riser cupboards on the walkways, but the assessor was unable to confirm this.</p> <p>Hanover Court runs parallel with neighbouring block, Princess Court. There is a green space in between, along with a community room (separate FRA). A small caretakers' office is located on the ground floor, with a storage area at the rear. There is good access to the block for the fire service - a high reach appliance could be used on some areas of the block but not all.</p> <p>There are 78 1/2-bedroom flats in the block. Most are Council tenants, but a number of flats have been purchased and are leasehold residents. (51/27 split). Some of the latter are sub let.</p>
Main use of Building	General needs block of flats.
Disabled / vulnerable persons	Potentially, some residents may be disabled/vulnerable.
Other persons at risk	The residents living in the block. A caretaker is employed to be on site Monday to Friday. There are visitors to the block and other persons who need to access it for various purposes.
Fire loss experience	There have been flat fires in these blocks over the years, with some smaller arson fires.
Fire Service station serving site / estimated travel time	Approx 5 mins from Parkside Fire Station (24hr crewed station) or approx 12-15 mins from the training facility at Milton. High rise predetermined attendance (PDA) for 5 floors and above is mobilised for this block.
Additional sources of oxygen	None

or flammable gases stored on site	
Relevant Fire Safety Legislation	Regulatory Reform (Fire Safety Order) 2005, Fire Safety Act 2021, Fire Safety (England) Regulations 2022, Building Safety Act 2022.
Legislation Enforced by	Cambridgeshire Fire & Service Service
Enforcement Notice issued by Fire Authority	NA

 Assessment Details

Assessor	Stephen Cotton MIFireE
Date of Assessment	16.05.2023
Date of previous assessment	04.07.2022
Date for review	May 2024 - or sooner as deemed necessary based on more information about the building becoming available or how it is being utilised as residential accommodation.
Management area of responsibility	Estates & Facilities/Housing Services
Survey type	Type 1 - PAS 79 - Review
"The Risk Profile" for this building has been calculated as	NA
Areas not accessible during visit	Private storage areas. Roof/plant not accessed or individual dwellings. Riser cupboards. The exact layouts of the flats are not known and may vary in their design. Lift motor room. Caretakers room/store.
Other relevant information	<p>A specific fire risk assessment (SFRA) was carried out in May-June 2020 following at Kingsway flats. The SFRA included Hanover Court as the design is very similar and the same issues have been highlighted in previous FRA's and by other fires. The assessment focused on flat entrance doors and service risers. This assessment is referred to in other sections of this report. A copy of the SFRA can be found in 'Documents'.</p> <p>There are garages at the end of the block - these are separate and do not form part of this assessment.</p> <p>There is a Fire Risk Management Group within Cambridge City Council to ensure delivery of its Fire Safety Policy and Fire Risk Management Strategy. Fire risk assessments are part of the strategy to achieve compliance with the FSO.</p> <p>In carrying out this assessment relevant guidance has been considered including 'Fire safety in purpose built blocks of flats', PAS 79-2 and current updates from MHCLG relating to external walls/Fire Safety Act 2021/Fire Safety (England) Regulations 2022 and The Building Safety Act 2022.</p> <p>The completion of this report has been delayed awaiting dry riser testing information from TSG which highlighted a significant defect - see testing and maintenance section below.</p>

 Fire Prevention Strategy

Fire Evacuation Strategy	At time of assessment there is a stay put policy. However, further investigations regarding the service risers may be undertaken following the Kingsway fire and the SFRA mentioned above. This may result in changes to the evacuation strategy and an interim early warning system and/or additional fire detection in flats might be installed.
AFD ; Warning System	There is currently no fire alarm or detection in the communal areas. It is believed flats are fitted with a smoke alarm in the hallway (LD3). A heat detector is programmed to be installed in the kitchen areas - if these are open-plan living areas, then this will achieve LD2 coverage. Given the comments above regarding the future of the building, additional fire detectors might be provided in flat units.

Escape Routes

Escape from ground floor flats is either from their front or rear access doors.

Means of escape from 1st floor flats is via a short open air landing and external staircases.

Escape for 2nd, 3rd, 4th, 5th, 6th and 7th floors is via the walkways at 3rd and 6th floor levels. There is a full height unprotected staircase at both ends of the block providing alternative escape routes once the walkways are reached. There is a travel distance of 60m between the escape staircases. The exception is for the pairs of flats located off the main escape staircases where this provides single direction directly down the staircase (in theory occupants could travel upwards to access the walkway and the alternative staircase but this is not ideal if there was smoke in the staircase area). This is an option for 4th and 7th floor occupants when descending their staircase, i.e. to go to the other staircase once a walkway is reached. There is also an initial dead end for flats at the end of each walkway but it is only 3m to the escape staircase and a well ventilated space so acceptable.

The main escape staircases are mostly open with no glazing but also no separation at 3rd and 6th floors (walkway level). At the uppermost level (7th floor) there is no vent at ceiling/roof level (although there is a skylight that potentially could be to provide an AOV/OV).

The depth of the walkway which is quite deep (3m + with no down stands), along with partial enclosure, may result in (lateral) smoke logging of the escape route. This may occur by either fire emerging from windows below the walkway or from a flat entrance way if the door is not closed. The windows below the walkways are believed to be bedrooms so a lesser risk than the kitchen/living room spaces that open onto the balconies on the either side of the building. This also means the higher fire risk rooms are on the opposite face of the building to the escape routes and may have been an intentional part of the design when built.

The walkway provides alternative means of escape but is not a fully 'open balcony/ventilated' approach and protection of the route is not currently afforded by fire-resistant flat entrance doors (leasehold doors are unlikely to be FD30S) and storage cupboards.

The layout of the staircases to the upper floors and off the walkways mean they are in a vertical channel running the full height of the building which also encourages any smoke and heat to travel upwards, affecting the escape route. In mitigation there are no windows opening onto any of the staircases and tenanted flat entrance doors have been replaced with FD30S units through 2020-21. Leasehold doors remain a risk to escape route protection/compartimentation. The former have been installed to the BM Trada Q-Mark scheme. Leasehold doors remain a risk to escape route protection/compartimentation.

Escape routes are generally sterile with non-combustible linings (Believed to be Class O/B-s3,d2 - subject to testing).

It will be important to maintain the fire doors in good condition and to ensure the self-closing devices are not disconnected by residents. This will be vital to protecting the escape routes and provide occupants the opportunity to escape should they choose to or if they are at risk and need to leave their flat. Changes to/new fire safety legislation has incorporated recommendations from MHCLG (Grenfell recommendations/Hackitt review) requiring these doors to be regularly inspected by the responsible person and residents informed of their importance.

There are no final exit doors at ground level just openings to the stairways.

Emergency Escape Lighting

Emergency lighting is installed throughout the communal areas and appears to be in accordance with BS 5266.

Fire Exit Directional Signage

Directional fire exit signage is provided from the 3rd floor and 6th floor walkways with some additional directional signs on the stairs but not at all levels. This is illuminated by the accommodation lighting.

Fire Lobbies

There are no fire lobbies

Smoke ventilation AOV

There is no AOV - see further comments in this report. The staircases and walkways are semi open which may provide smoke ventilation.

Dry Riser

Dry riser outlets are installed on the 3rd & 6th floor walkways near the lift and on the refuse chute landing with the inlets at ground level directly below. The hydrants to supply the risers are located in Union Road and Coronation Street. A fire appliance can get within 18-25m of the DR inlet.

Type; Number of Fire Extinguishers

There are no fire extinguishers in the communal areas. It is believed a CO2 extinguisher is located in the lift motor and caretakers room (not accessed by the assessor)

⊕ Scope of Assessment

- Type 1 assessment only. Recommendations for a type 4 assessment is contained within the FRA report.

🏠 Contact Details

Identity of Client -

Any persons with responsibility for fire safety within the premises (refer to artical 5 of RRF50) -

Telephone number -

➤ Documents

The documents table below shows the documents associated with the assessable area that this assessment belongs to. Showing the version and and expiry date.

Total **7** items.

Document	Contractor	Expiry Date	Version
Fire Strategy Document frmg -fire risk management strategy_final_1_.docx	Steve Cotton	-	1
FRA Supporting Document sfra - ccc flat entrance doors _ service riser__ compartmentaion_1_.docx	Steve Cotton	-	1
Fire Risk Assessment (1 year) RiskAssessment_1367.pdf	Steve Cotton	-	1
FRA Supporting Document kingsway flats - fra supporting pics.docx	Steve Cotton	-	1
Fire Risk Assessment (1 Year) RiskAssessment_1367-1.pdf	Steve Cotton	-	1
Fire Risk Assessment (1 Year) RiskAssessment_1367-2.pdf	Steve Cotton	-	1
FRA Supporting Document hanover court dry riser inspection.pdf	CROMWELL FIRE	-	1

Your Risk Assessment Grading

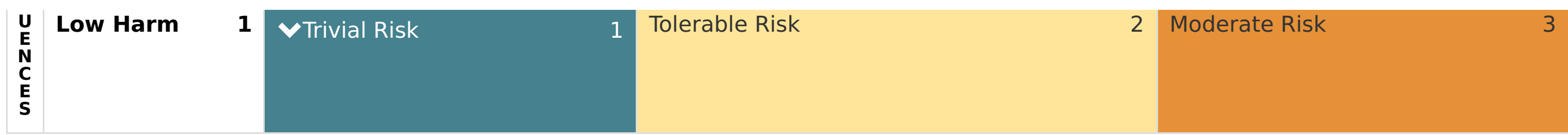
The following section reflects the overall assessment rating.

The risk rating is the qualitative evaluation by the risk assessor on the likelihood of a hazardous event occurring, and the consequence in consideration of harm to life. The risk assessor's methodology is reflected by the risk matrix, which is applied to establish a risk score and risk rating.

When a risk is adequately controlled, the acceptable risk that remains is known as the 'Residual Risk', reflecting a well-controlled and well-managed hazard, considered to meet the legal duty of 'so far as is reasonably practicable'. This means that, although the hazard is adequately controlled, risk remains and so an appropriate level of control and management is required. The acceptable residual risk is stated for each hazard category, reflecting the desired risk rating, against what is currently being achieved.

The risk matrix is utilised throughout the assessment to evaluate the likelihood of a hazardous event occurring and the consequences.

Risk Matrix		LIKELIHOODS		
		Low 1	Moderate 2	Extreme 3
C O N S E Q	High Harm 3	Moderate Risk 3	🚨 Substantial Risk 6	Intolerable Risk 9
	Medium Harm 2	Tolerable Risk 2	Moderate Risk 4	Substantial Risk 6



Legend Current Risk Score Residual/Baseline Risk Score

In consideration of the risk control measures evident during the risk assessment, and in consideration of the acceptable residual risk, the **overall likelihood** risk rating is:

1 Low 2 **Moderate** Extreme

In this context, a definition of the above terms is as follows:

- Low:** Outbreak of fire unlikely to result in serious injury or death of any occupant (other than an occupant sleeping in a room in which a fire occurs).
- Moderate:** Outbreak of fire could foreseeably result in injury (including serious injury) of one or more occupants, but it is unlikely to involve multiple fatalities.
- Extreme:** Significant potential for serious injury or death of one or more occupants.

In consideration of the risk control measures evident during the risk assessment, and in consideration of the acceptable residual risk, the **overall consequence** risk rating is:

1 Low Harm Medium Harm 3 **High Harm**

In this context, a definition of the above terms is as follows:

- High Harm:** Lack of adequate controls applied to one or more significant fire hazards, such as to result in significant increase in likelihood of fire.
- Medium Harm:** Normal fire hazards (e.g. potential ignition sources) for this type of occupancy, with fire hazards generally subject to appropriate controls (other than minor shortcomings).
- Low Harm:** Unusually low likelihood of fire as a result of negligible potential sources of ignition.

Therefore, it is considered that the current **overall risk** to persons potentially associated with the premises is:

1 Trivial Risk Tolerable Risk Moderate Risk 6 **Substantial Risk** Intolerable Risk

Overall Residual Risk

In consideration of the premises, activities, and risk profile applied, the **overall residual risk** is:

1 **Trivial Risk** Tolerable Risk Moderate Risk Substantial Risk Intolerable Risk

Risk Rating Definition

A suitable risk-based control plan should involve effort and urgency that is proportional to risk:

Risk level	Action and timescale
Trivial Risk	No action is required and no detailed records need be kept.
Tolerable Risk	No major additional fire precautions required. However, there might be a need for reasonably practicable improvements that involve minor or limited cost.
Moderate Risk	It is essential that efforts are made to reduce the risk. Risk reduction measures, which should take cost into account, should be implemented within a defined time period. Where moderate risk is associated with consequences that constitute extreme harm, further assessment might be required to establish more precisely the likelihood of harm as a basis for determining the priority for improved control measures.
Substantial Risk	Considerable resources might have to be allocated to reduce the risk. If the premises are unoccupied, it should not be occupied until the risk has been reduced. If the premises are occupied, urgent action

should be taken.

Intolerable Risk

Premises (or relevant area) should not be occupied until the risk is reduced.

[View All Historical](#)

Assessment Report

FIRE HAZARDS AND THEIR ELIMINATION OR CONTROL

Electrical Sources of Ignition

Hanover Court, Coronation Street, Cambridge

1 / 1

✔ **Reasonable measures taken to prevent fires of electrical origin?** Yes

✔ **Fixed installation periodically inspected and tested?** Yes

FWT due August 2024.

— SC ⌚ 22 Jun 2023 15:29:39

✔ **Portable appliance testing (where appropriate) carried out?** N/A

There could be equipment in the caretakers office that requires PAT.

— SC ⌚ 22 Jun 2023 15:29:42

✔ **Suitable policy regarding the use of personal electrical appliances?** N/A

No personal electrical appliances in the communal areas.

— SC ⌚ 22 Jun 2023 15:29:44

✔ **Suitable limitation of trailing leads and adapters?** N/A

Unable to check caretakers office.

No trailing leads in the communal area.

— SC ⌚ 22 Jun 2023 15:29:47

✔ **Is photovoltaic equipment present and appropriately tested?** N/A

None installed.

— SC ⌚ 22 Jun 2023 15:29:50

✔ **Are external vehicle charging facilities suitably positioned / protected?** N/A

None installed.

— SC ⌚ 22 Jun 2023 15:29:53

Fixed wire test: August 2019

Smoking

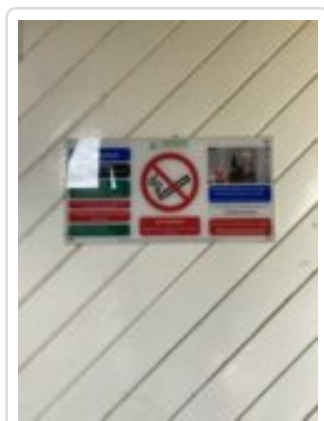
Hanover Court, Coronation Street, Cambridge

1 / 1

✔ **Reasonable measures taken to prevent fires as a result of smoking?** Yes

A no smoking policy is applied to the communal areas in accordance with The Health Act 2006 and signage displayed accordingly.

— SC ⌚ 22 Jun 2023 15:29:57



IMG_2345

— SC ⌚ 17 May 2023 13:36:53

✔ **Smoking prohibited on the premises?** Yes

Smoking is only permitted in the flat units and not in the communal or ancillary areas.

— SC ⌚ 22 Jun 2023 15:30:00

✔ **Smoking prohibited in appropriate areas?** N/A

As above

— SC ⌚ 22 Jun 2023 15:30:03

✔ **Suitable arrangements for those who wish to smoke?** N/A

As above.

— SC ⌚ 22 Jun 2023 15:30:06

✔ **This policy appeared to be observed at time of inspection?** Yes

At time of assessment there was no evidence of smoking taking place in the communal areas.

— SC ⌚ 22 Jun 2023 15:30:08

'No smoking' signs are located at the main entrances to the building and at access points to the first floor landings. They are also displayed on the walkways at 3rd and 6th floors.

🔥 Arson

Hanover Court, Coronation Street, Cambridge

1 / 1

✔ **Does basic security against arson by outsiders appear reasonable?** Yes

✔ **Is there an absence of unnecessary fire load in close proximity to the premises or available for ignition by outsiders?**

Yes

There was a large wheeled bin located under the archway that could be prone to an arson attack and should ideally be located away from the building, however, it was noted as being locked shut.

— SC ⌚ 22 Jun 2023 15:30:14



IMG_2409

— SC ⌚ 17 May 2023 13:50:06



IMG_2408

— SC ⌚ 17 May 2023 13:50:06

There is open access to these flats, although the refuse/bin rooms are limited in their availability to residents and locked at other times. The building has fully open access that can lead to unauthorised access with the potential for arson. It would benefit from an estate improvement scheme to make it more secure, however, this is unlikely to take place given the future of the building.

Storage cupboards were secure and are fully enclosed.

Some stored items on a few landings could be a source of combustibles but this is generally low risk.

Anecdotally arson is not a significant issue.

🔥 Portable Heaters and Heating Installations

Hanover Court, Coronation Street, Cambridge

1 / 1

✔ **Is the use of portable heaters avoided as far as practicable?** N/A

- ✔ If portable heaters are used: Is the use of the more hazardous type (e.g. radiant bar fires or lpg appliances) avoided? N/A
- ✔ If portable heaters are used: Are suitable measures taken to minimize the hazard of ignition of combustible materials? N/A
- ✔ Are fixed heating installations subject to regular maintenance? N/A

There is no heating in the communal areas

⚡ Lightning

Complete building

1 / 1

- ✔ Do the premises have a lightning protection system and if so does it appear satisfactory? Yes

A LPS is in place - the assessor was not able to confirm if it is satisfactory, however, it is tested/maintained.

— SC ⌚ 22 Jun 2023 15:30:17

Lightning equipment tested: 27/05/2022

🏠 Housekeeping

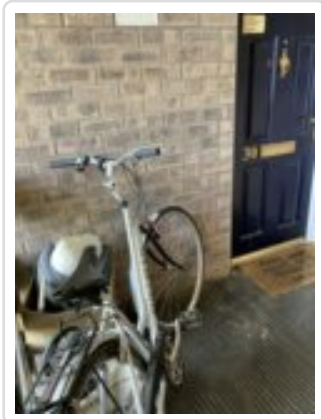
All Areas

1 / 1

- ✘ Is the standard of housekeeping to the assessed area generally adequate? No

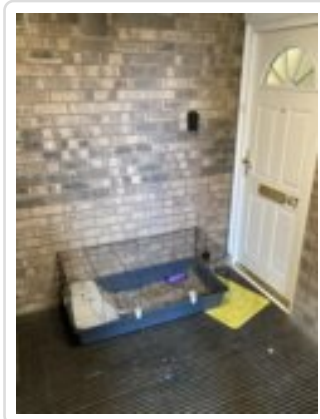
Items located in escape routes. These can be an obstruction to the means of escape, a trip hazard for fighters and add to fire loading in an area that should be managed as a sterile space.

— SC, RB ⌚ 8 Feb 2024 20:01:30



IMG_2360

— SC ⌚ 17 May 2023 13:45:50



IMG_2357

— SC ⌚ 17 May 2023 13:45:50



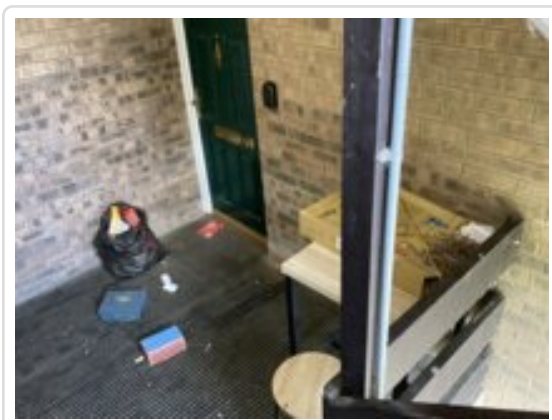
IMG_2353

— SC ⌚ 17 May 2023 13:45:50



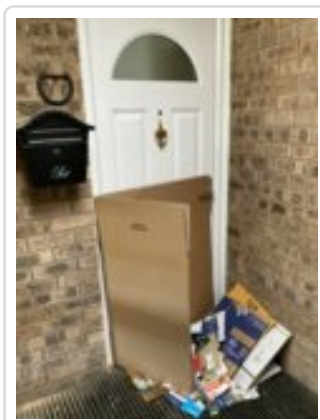
IMG_2349

— SC ⌚ 17 May 2023 13:45:50



IMG_2348

— SC ⌚ 17 May 2023 13:45:50



IMG_2347

— SC ⌚ 17 May 2023 13:45:51



IMG_2350

— SC ⌚ 17 May 2023 13:45:51



IMG_2343

— SC ⌚ 17 May 2023 13:45:51

✔ Tasks 1

- ✔ Items located in escape routes - manage/remove

A range of items were observed in the communal areas outside flat entrances. See photographs. Outside flats: 23/30/47/59/62/65/68/71/77.

These should be managed/removed in accordance with the Councils Zero Tolerance policy.

Location All Areas (Housing Services, Hanover Court, All Areas)

Medium Priority

— complete by 16 Aug 2023 to reduce the risk by 100% SC, RB

Assigned Users Jamie Lambert

Completed Jamie Lambert @ 8 Feb 2024 20:01:30

✔ More specifically do combustible materials appear to be separated from ignition sources? Yes

✔ More specifically is there an avoidance of an unnecessary accumulation of combustible materials or waste? N/A

See action above.

— SC @ 22 Jun 2023 15:30:21

✔ More specifically is there appropriate storage of hazardous materials? Yes

No hazardous materials observed.

— SC @ 22 Jun 2023 15:30:25

✔ More specifically is there an avoidance of inappropriate storage of combustible materials? Yes

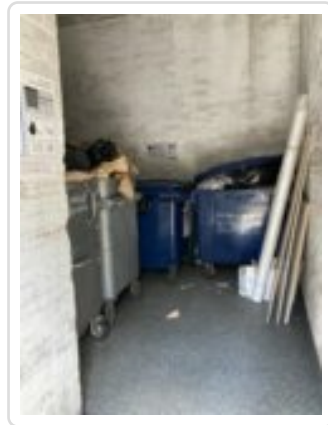
See action above. Bin stores were in good housekeeping condition.

— SC @ 18 May 2023 09:06:31



IMG_2364

— SC @ 17 May 2023 13:48:02



IMG_2370

— SC @ 17 May 2023 13:48:02

As can be seen from the attached images there are either bikes or items of storage outside some flat entrance doors. Application of the Council's zero tolerance policy as per other flats is recommended although acknowledged as difficult to implement in some instances.

🔧 Hazards Introduced By Outside Contractors and Building Works

Hanover Court, Coronation Street, Cambridge

1 / 1

✔ Are fire safety conditions imposed on outside contractors? Yes

✔ Is there satisfactory control over works carried out on the premises by outside contractors (including "hot work" permits)? Yes

✔ If there are in-house maintenance personnel, are suitable precautions taken during "hot work", including use of "hot work" permits? Yes

Contractors are subject to CCC's Health and Safety and Fire Safety Policies.

🗑️ Dangerous Substances

All Areas

2 / 1

✔ Are the general fire precautions adequate to address the hazards associated with dangerous substances used or stored within the premises? Yes

There are no dangerous substances on the premises.

See action below regarding gas installations.

— SC @ 22 Jun 2023 15:30:36

✔ If the above applies, has a specific risk assessment been carried out, as required by the Dangerous Substances and Explosive Atmospheres Regulations 2002? **N/A**

There are no dangerous substances on the premises.

🔔 Other Significant Fire Hazards That Warrant Consideration Including Process Hazards That Impact on General Fire Precautions

Hanover Court, Coronation Street, Cambridge

1 / 1

✖ Are there other Significant Fire Hazards That Warrant Consideration Including Process Hazards That Impact on General Fire Precautions? **Yes**

Gas installations - building structural stability and capacity

— 👤 SC, RB ⌚ 27 Dec 2023 16:55:02

✔ Tasks **1**

✔ Gas installations - building structural stability and capacity

A report has been submitted to CCC regarding the ability the structures at Hanover and Princess Courts to cope with a gas installation explosion. The report recommends removal of gas installations at Hanover and Princess Courts to completely negate the risk of a progressive building collapse. The Council has accepted and will implement this recommendation.

Depending on the time taken to undertake removal and fitting alternative appliances, it is recommended that the Fire and Rescue Service are made aware of this hazard and resulting risk so that they can plan accordingly. Discussion with them regarding information in the PIB might be appropriate, as well as means to evacuate the block if required.

Location Hanover Court, Coronation Street, Cambridge (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

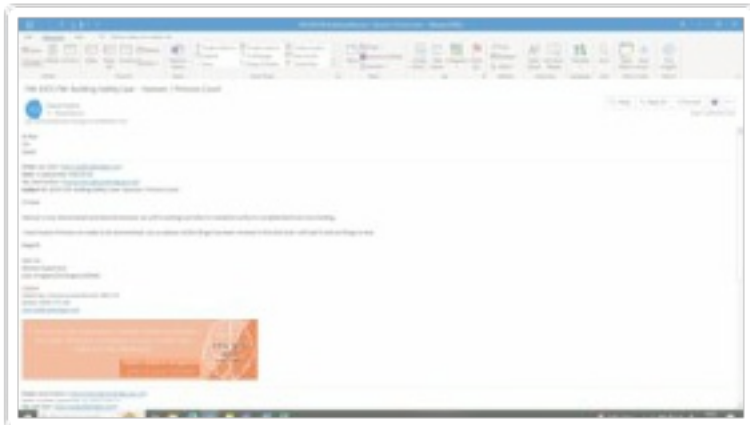
High Priority

— complete by 12 Sep 2021 to reduce the risk by 100% 👤 SC, RB

Assigned Users 👤 Renier Barnard

Completed Renier Barnard @ 27 Dec 2023 16:55:02

After



Hanover Princess Gas Removal

— 👤 RB ⌚ 27 Dec 2023 16:54:53

The building has Estate Safety checks in place (by Caretaker) which includes the reduction and elimination of fire hazards.

Generally housekeeping is good with only instances of minor storage.

Re bicycles - Where there is plenty of space such as on walkways and underneath staircases this is not so much a concern compared to the small stairways off the main walkway that need to be monitored and managed in accordance with the Council's zero tolerance policy.

The issue with gas supply/installations into the block is a work in progress to reduce the risk from gas.

FIRE PROTECTION MEASURES

🚪 Means of Escape

✔ **Is it considered that the premises are provided with reasonable means of escape in case of fire?** **N/A**

The means of escape are not ideal when compared to current benchmark standards, but reasonable given the age and features of the building if other measures are addressed as per the recommendations for action contained in this and other sections of this report.

— RB, SC 18 May 2023 09:29:12

✔ **Adequate design of escape routes?** **N/A**

As above

— SC 22 Jun 2023 15:30:44

✔ **Adequate provision of exits?** **Yes**

Exits are at the walkways and into the two main staircases with an open exit at the base of the stairs leading to ultimate safety.

— SC 22 Jun 2023 15:30:47

✔ **Exits easily and immediately openable where necessary?** **N/A**

There are no final exit doors in any local or on any level in the building - access is open.

— SC 22 Jun 2023 15:30:49

✔ **Fire exits open in direction of escape where necessary?** **N/A**

See above.

— SC 22 Jun 2023 15:30:52

✔ **Avoidance of sliding or revolving doors as fire exits where necessary?** **N/A**

See above.

— SC 22 Jun 2023 15:30:54

✔ **Satisfactory means for securing exits?** **N/A**

As above

— SC 22 Jun 2023 15:30:58

✔ **Reasonable distances of travel: Where there is a single direction of travel?** **Yes**

Depending on the benchmark technical approach taken (balcony access) the travel distances are acceptable. However, other areas of this report make reference to smoke venting and how this is potentially limited impacting on the travel distances from different parts of the building.

— SC 22 Jun 2023 15:31:00

✔ **Reasonable distances of travel: Where there are alternative means of escape?** **Yes**

Depending on the benchmark technical approach taken (balcony access) the travel distances are acceptable. However, other areas of this report make reference to smoke venting and how this is potentially limited impacting on the travel distances from different parts of the building.

— SC 22 Jun 2023 15:31:03

✘ **Suitable protection of escape routes including provision of fire doors/hatches including to roof voids, individual dwellings/flats, compartment doors, riser cupboard doors and risk rooms?** **No**

An inspection of the storage/electrical cupboard doors revealed that the doors are non fire rated and the integrity of the door set and therefore the escape route may be compromised.

Likelihood: Low

Consequence: Medium Harm

2 x 1 = 2 | Tolerable Risk

— RB, SC 22 Jun 2023 15:31:15

✔ **Tasks** **2**

- Storage cupboard doors - upgrade/replace

An inspection of the storage cupboard doors revealed that the doors are non fire rated and the integrity of the door set and therefore the escape route may be compromised.

These doors should be added to the program of works for upgrading or replacement.

The doors are secure without openings at the top and bottom (like Kingsway). From being able to observe one cupboard (empty and unlocked) there is no power supply so no ignition source.

Location Complete building (Housing Services, Hanover Court, All Areas)

Low Priority

— complete by 04 Jul 2023 to reduce the risk by 50% RB, SC

Assigned Users Fire Safety Compliance

Electrical cupboard doors - upgrade/replace

An inspection of the electrical cupboard doors revealed that the doors are non fire rated and the integrity of the door set and therefore the escape route may be compromised.

These doors should be added to the program of works for upgrading or replacement.

Location Ground floor

Low Priority

— complete by 16 May 2024 to reduce the risk by 50% RB, SC

Assigned Users Fire Safety Compliance

Suitable fire precautions for all inner rooms? **N/A**

No inner rooms present.

— SC 22 Jun 2023 15:31:06

Escape routes unobstructed? **Yes**

See Housekeeping above

— RB, SC 22 Jun 2023 15:31:08

It is considered that the premises are provided with reasonable arrangements for means of escape for disabled people. **N/A**

The building was not designed to accommodate disabled persons/PRM. Any issues with individual occupants being able to escape should be identified through a PCFRA (person centred fire risk assessment).

— SC 22 Jun 2023 15:31:11

First floor **2 x 1 = 2 | Tolerable Risk**

2 / 4

Suitable protection of escape routes including provision of fire doors/hatches including to roof voids, individual dwellings/flats, compartment doors, riser cupboard doors and risk rooms? **No**

Escape route fire protection - the glass block wall may not provide the same level of fire resistance as the flat entrance door. This could allow fire and smoke to enter the escape route.

Likelihood: Low

Consequence: Medium Harm

2 x 1 = 2 | Tolerable Risk

— SC, RB 17 May 2023 14:05:56



IMG_4521

— SC 26 Jul 2020 12:30:54

Tasks **1**

Escape route separation - not FR

The external wall to flat 18 on the first floor is constructed of glass blocks. This flat is at the base of the escape staircase and was the former caretakers flat. It is believed to be an original constructional feature.

An inspection in 2019 was unable to confirm that it provides the required fire resistance (integrity/insulation/stability) to protect the escape route.

Options should be considered to remedy this and might include: replacing the wall or, providing a protected inner hallway or, linking fire detection in flat 18 to the flats above on the escape staircase.

Location First floor (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

Medium Priority

— complete by 23 Jun 2021 to reduce the risk by 100% **SC, RB**

Assigned Users **Fire Safety Compliance**

Hanover Court, Coronation Street, Cambridge **3 x 2 = 6 | Substantial Risk**

3 / 4

Suitable protection of escape routes including provision of fire doors/hatches including to roof voids, individual dwellings/flats, compartment doors, riser cupboard doors and risk rooms? **No**

A survey of flat entrance doors and the door furniture in 2019 revealed that the doors on escape routes were non fire rated doors. The majority of tenant doors (50/51) in the blocks were replaced in 2020/21. However, leasehold doors are still mostly non-compliant.

Likelihood: Moderate **Consequence: High Harm** **3 x 2 = 6 | Substantial Risk**

— **SC, RB** ⌚ 22 Jun 2023 15:31:27



IMG_0463

— **SC** ⌚ 13 Jul 2022 10:31:28



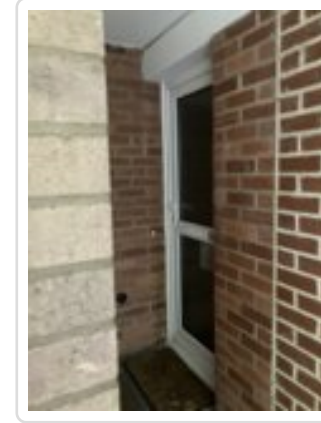
IMG_0454

— **SC** ⌚ 13 Jul 2022 10:31:28



IMG_0462

— **SC** ⌚ 13 Jul 2022 10:31:28



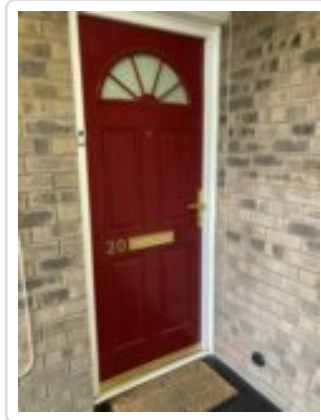
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— **SC** ⌚ 13 Jul 2022 10:31:28



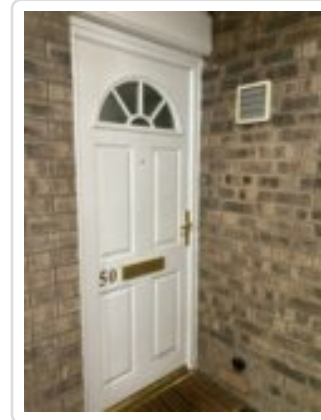
IMG_0452

— **SC** ⌚ 13 Jul 2022 10:31:28



IMG_0453

— **SC** ⌚ 13 Jul 2022 10:31:28



IMG_0451

— **SC** ⌚ 13 Jul 2022 10:31:29



IMG_0450

— **SC** ⌚ 13 Jul 2022 10:31:29



IMG_0449

— **SC** ⌚ 13 Jul 2022 10:31:29



IMG_0443

— **SC** ⌚ 13 Jul 2022 10:31:29



IMG_0448

— **SC** ⌚ 13 Jul 2022 10:31:29



IMG_0446

— **SC** ⌚ 13 Jul 2022 10:31:29



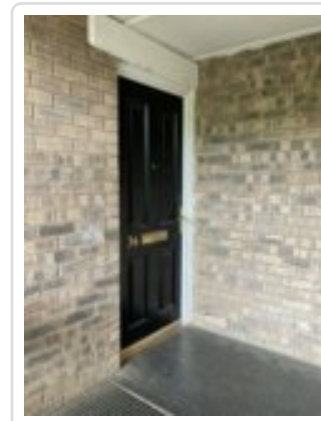
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— **SC** ⌚ 13 Jul 2022 10:31:30



IMG_0428

— **SC** ⌚ 13 Jul 2022 10:31:30



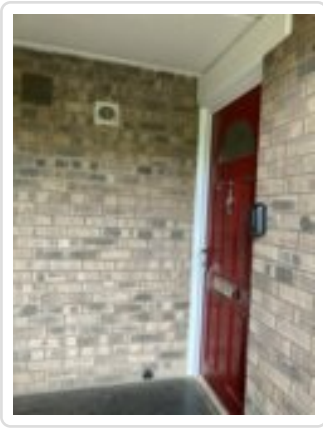
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— **SC** ⌚ 13 Jul 2022 10:31:30



IMG_0441

— **SC** ⌚ 13 Jul 2022 10:31:30



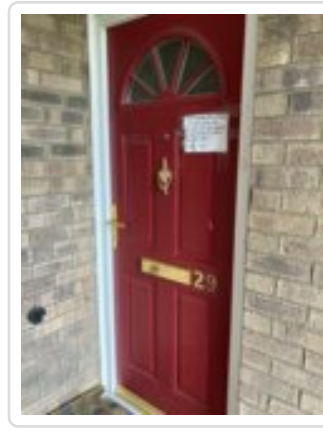
IMG_0439

— SC 13 Jul 2022 10:31:30



IMG_0438

— SC 13 Jul 2022 10:31:30



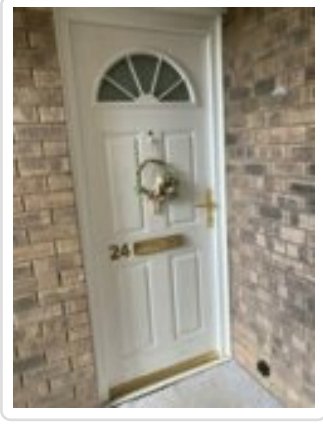
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— SC 13 Jul 2022 10:31:31



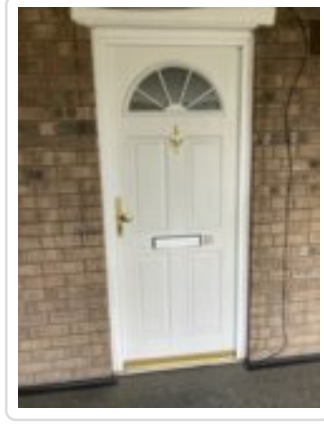
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— SC 13 Jul 2022 10:31:31



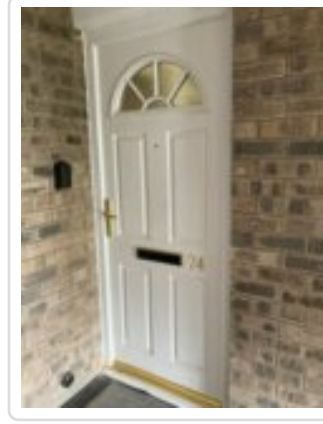
IMG_0435

— SC 13 Jul 2022 10:31:31



IMG_0436

— SC 13 Jul 2022 10:31:31



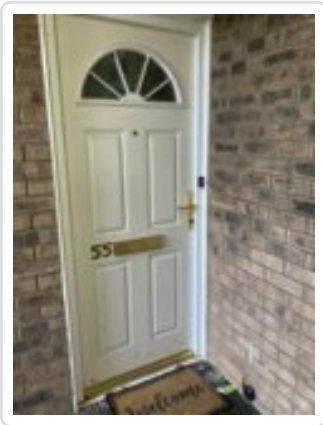
IMG_0433

— SC 13 Jul 2022 10:31:31



IMG_0430

— SC 13 Jul 2022 10:31:31



IMG_0429

— SC 13 Jul 2022 10:31:32



IMG_0431

— SC 13 Jul 2022 10:31:32



IMG_0432

— SC 13 Jul 2022 10:31:32

Tasks 2

Leaseholder Flat entry doors-non FR

All leasehold doors in a recent survey (end of 2019) were identified as HIGH priority as they are non fire rated flat entry doors and need to be replaced with an FD30S standard door. Leaseholders were written to in 2020 and offered a replacement door as part of the Councils program of work. However, many of the doors across the block remain non-compliant. The Council should continue to pursue flat entry door replacement where there is non-compliance. The Leasehold Team are currently in the process of writing to leaseholders again to request evidence of compliance.

Location Hanover Court, Coronation Street, Cambridge (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

High Priority

— complete by 12 Apr 2022 to reduce the risk by 50% SC, RB

Assigned Users Fire Safety Compliance

Tenanted Flat entry doors-non FR

The majority of tenant doors (50/51) in the blocks were replaced in 2020/21.

The Council should continue to pursue flat entry door replacement where there is still non-compliance.

Location Hanover Court, Coronation Street, Cambridge (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

High Priority

— complete by 12 Apr 2022 to reduce the risk by 50% SC, RB

Assigned Users Fire Safety Compliance

Manual over ride devices activated.

— SC, RB @ 5 Feb 2024 16:26:07



IMG_2371

— SC @ 17 May 2023 15:05:25

Tasks 1

Manual over ride devices activated - reset

Manual over ride devices are located in bin room 1. The manual over ride devices appear to have been activated. These should be checked and if necessary reset.

Location Bin room 1

Medium Priority

— complete by 16 Jun 2023 to reduce the risk by 100% SC, RB

Assigned Users Will Beavitt

Completed Will Beavitt @ 5 Feb 2024 16:26:07

The escape for most of the flats above ground floor is via generally semi-open routes which provides venting for smoke, however, also see comment above re 'escape routes' above regarding impact of a fire on these routes. This includes the staircases from ground to first floor flats and those serving 2nd/4th and 5th/7th floor flats off the walkways at 3rd and 6th floors.

The main staircases at each end running the full height of the building are open (and unprotected) at all levels except the head of the stair. The walkways are also ventilated at each end of the block.

There are skylights at the head of the escape stairs which appear to be openable. These could be investigated further to provide smoke ventilation by adaptation or modification to enable them to be opened manually (remotely) or by AOV, although the benefit may be limited.

The travel distances on the walkways are acceptable, however, they are undivided. These escape routes are neither enclosed corridors or fully open balconies (as per technical guidance). There might be some benefit in providing doors across the walkway where the short staircases emerge on the walkway but given smoke from a fire below could affect both sides of the partition it is not clear if these would be effective. Potentially this offers a progressive horizontal evacuation approach for persons with restricted mobility.

A program to replace all tenant flat entrance doors and to address leasehold doors has been implemented. All tenanted doors have been replaced, whereas all leasehold doors (apart from 2) remain non-compliant. This remains a significant risk to the means of escape.

There are no other openings onto the escape routes, which also helps to reduce the likelihood of them being affected by a fire. It is also proposed to replace store cupboard doors with FD30 standard doors, which will also reduce the opportunity for arson. The electrical intake cupboards/risers on the ground floor should also be part of this program.

The caretakers office is a very small space with acceptable single direction travel distance.

There are various ventilator breaches in the compartment walls outside flats: 33,35,41,42,45,48,50,65,66. These have been reviewed by the Compliance Manager (Gareth Basterfiled) previously and will not be actioned further. Many have been blanked off with a steel plate - it could not be confirmed if the fitting provides 60 mins fire resistance but is an improvement over an open vent.

Measures to Limit Fire Spread and Development

Complete building **3 x 2 = 6 | Substantial Risk**

1 / 3

It is considered that there is: **Compartmentation of a reasonable standard including external faces of buildings** **No**

Compartmentation does not appear to be to the required fire resistance. Following fires in blocks of similar design breaches in the service riser became apparent. The design of the riser in this block is very similar and likely to present the same issues allowing smoke and

possibly fire spread through the building affecting other occupants away from the compartment of origin.

Likelihood: Moderate Consequence: High Harm **3 x 2 = 6 | Substantial Risk**

— RB, SC ⌚ 22 Jun 2023 08:41:06

✓ Tasks 2

- Compartmentation to provide 60 minutes fire resistance in blocks above of 6 storeys

There is a requirement for compartmentation to provide 60 minutes fire resistance in blocks of 6 storeys and above.

Location Complete building (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

High Priority

— complete by 23 Sep 2021 to reduce the risk by 50% RB, SC

Assigned Users Fire Safety Compliance

- Structural investigation-breach of compartment wall/floor and external wall system

Further structural investigation is required to ascertain the consequence of the compartmentation breach, to establish if the following actions are required:

- Type 2, 3 or 4 Fire Risk Assessment.
- Change to the Fire Strategy of the building from “Stay Put” to Simultaneous Evacuation or other evacuation strategy as appropriate.
- Installation of Automatic Fire Detection System

The survey should include a fire risk appraisal of the external wall system (PAS 9980) to inform the Building Safety Case under The Building Safety Act 2022.

Location Complete building (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

High Priority

— complete by 23 Dec 2020 to reduce the risk by 50% RB, SC

Assigned Users Fire Safety Compliance

☑ It is considered that there is: Reasonable limitation of linings that might promote fire spread **Yes**

Escape routes are mostly sterile with non-combustible linings (Believed to be Class O/B-s3,d2 - subject to test).

— RB, SC ⌚ 22 Jun 2023 15:31:42

☑ As far as can reasonably be ascertained, fire dampers are provided as necessary to protect critical means of escape against passage of fire, smoke and combustion products in the early stages of a fire? **N/A**

See recommendation above regarding compartmentation/service risers.

— SC ⌚ 22 Jun 2023 15:31:46

Complete building **2 x 1 = 2 | Tolerable Risk**

2 / 3

✘ It is considered that there is: Compartmentation of a reasonable standard including external faces of buildings **No**

The materials on the external face of the building and/or the installation methods and materials could not be determined and appeared to be of sufficient amounts to be regarded as likely to contribute to external fire spread unless of a non-combustible material and should be examined/tested and the installation confirmed.

Balconies have been enclosed by residents. It is not known if these were authorised and compliant with building regulations.

Likelihood: Low Consequence: Medium Harm **2 x 1 = 2 | Tolerable Risk**

— SC, RB ⌚ 22 Jun 2023 15:31:53



IMG_2391

— SC ⌚ 17 May 2023 14:15:29



IMG_2383

— SC ⌚ 17 May 2023 14:15:29



IMG_2384

— SC ⌚ 17 May 2023 14:15:29

Tasks 2

External balconies-testing

The materials on the external face of the building and/or the installation methods and materials could not be determined and appeared to be of sufficient amounts to be regarded as likely to contribute to external fire spread unless of a non-combustible material and should be examined/tested and the installation confirmed. (Government cladding ban for combustible cladding on buildings limits materials to products achieving a European Classification of Class A1 or A2-s1,d0 when tested in accordance with BS EN 13501-1 :2007+A1:2009. This also includes balconies attached to external walls as regarded by building regulations as specified attachments and above 18m are subject to the same requirements and must achieve the same European Classification. Below this height the specified attachment should be risk assessed and appropriate measures implemented).

There are a number of balcony enclosures that may have fire safety implications both internally and externally and require further investigation and assessment.

Location Complete building (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

Medium Priority

— complete by 04 Jul 2023 to reduce the risk by 50%  SC, RB

Assigned Users  Fire Safety Compliance

Resident use of balconies

It was not possible for the assessor to externally check by observation the use of all the resident balcony spaces given the height of the building. In discussing this with the caretaker there are some balconies of concern (flats 15 and 20) that may present additional fire hazards. With the support of the housing management team these should be investigated, and information provided to residents more generally about the usage of balconies.

Location Complete building (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

Medium Priority



— complete by 04 Jan 2023 to reduce the risk by 50%  SC, RB

Assigned Users  Fire Safety Compliance

Before



IMG_0486

—  SC  13 Jul 2022 10:41:17

Hanover Court, Coronation Street, Cambridge

1 x 1 = 1 | Trivial Risk

3 / 3

✖ It is considered that there is: **Compartmentation of a reasonable standard including external faces of buildings** **No**

Refuse chute cover missing - this could lead to smoke from a bin room fire emerging on the landing/walkway although this is at the end of the walkway so its impact would not be so significant on the means of escape.

Likelihood: Low

Consequence: Low Harm

1 x 1 = 1 | Trivial Risk

—  SC, RB  22 Jun 2023 15:32:07



Tasks 1

Refuse chute cover missing

The refuse chute cover near the lift on the 3rd floor walkway is missing and should be replaced.

Location Hanover Court, Coronation Street, Cambridge (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

Low Priority

— complete by 16 Nov 2023 to reduce the risk by 100% SC, RB

Assigned Users Fire Safety Compliance

A flat fire in Hanover Court early in 2020 and in block 4 at Kingsway flats in May 2020 resulted in either smoke and/or fire spread through the service riser. The outcomes of a subsequent specific FRA (see Documents) included a review of the stay put policy, installation of linked early warning of fire and further surveys of service risers in all blocks at Kingsway flats. This was also planned for Hanover/Princess Courts (as the buildings are from the same era and very similar in design) to provide solutions to the lack of fire resistance/compartmentation.

This work is being progressed by CCC at Kingsway (in 2023) and has coincided with replacing most flat entrance doors to FD30S standard in 2020-21.

At time of assessment no progress had been made regarding surveys or compartmentation works and is pending completion of Kingsway flats which is likely to inform the approach taken with Hanover (and Princess) Court. The external walls should be part of the type 4 assessment (PAS 9980 FRAEW), although the fire in block 4 at Kingsway Flats indicates there are not specific issues with the EWS.

Resident balconies are not constructed of combustible materials. From external observations, generally the use of balconies does not appear to present significant additional fire hazards although it is difficult to confirm this without being intrusive. There is one exception where a quantity of cardboard is being stored on a first floor balcony.

However, in 2020 the Caretaker highlighted at least two flats of concern - see recommendation above. As of 2023 this does not appear to have been followed up.

There are several balcony enclosures that could have fire safety implications both externally and internally.

As residents are being decanted this risk is likely to decrease.

Previously identified vent breaches (outside flats 23,35,41,42,48,56) have been reviewed and accepted as no further action required by the Risk and Compliance Manager in 2021. If a more detailed FRA (compartmentation survey/fire risk appraisal of external wall construction) is undertaken, as recommended above, these should be included in that assessment to confirm the decision taken.

Escape routes are mostly sterile with non-combustible linings (Believed to be Class O/B-s3,d2).

2023 update: now that changes to fire safety legislation have come into force and the requirement to produce a building safety case, the need for at least some sampling of the EWS and fire compartmentation to inform interim measures and to demonstrate management of the issue and thus risk, is not diminished by the building's short term future.

Emergency Escape Lighting

Hanover Court, Coronation Street, Cambridge

1 / 1

Reasonable standard of emergency escape lighting system provided? **Yes**

Emergency lighting is provided in the escape routes and appeared to be in working order.

Note. the test records on site show continual failures which has been fed back by the assessor to TSG to be followed up.

— SC 22 Jun 2023 15:32:16

Emergency lighting is provided throughout the communal areas and appeared to be in working order. The assessor was not able to verify its effectiveness at time of assessment.

🔗 Fire Safety Signs and Notices

Hanover Court, Coronation Street, Cambridge

1 / 2

✔ Reasonable standard of fire safety signs and notices? Yes

Fire safety signage where required is in place.

Additional wayfinding signage is programmed to be installed (change to guidance for buildings over 11m to be adopted as best practice).

— SC ⌚ 22 Jun 2023 15:32:20

All Areas

3 / 2

✔ Reasonable standard of fire safety signs and notices? Yes

Where appropriate fire safety signage and notices are provided including fire action notices, fire exit directional signage, some store/electrical cupboards and dry riser inlets.

— SC ⌚ 17 May 2023 14:55:09



IMG_2369

— SC ⌚ 17 May 2023 14:55:09



IMG_2363

— SC ⌚ 17 May 2023 14:55:10



IMG_2368

— SC ⌚ 17 May 2023 14:55:10



IMG_2372

— SC ⌚ 17 May 2023 14:55:10



IMG_2345

— SC ⌚ 17 May 2023 14:55:10

Fire exit signage incorporates pictogram and text format. The position and location of signage is generally satisfactory in terms of compliance and give the layout/design of the block.

🔔 Means of Giving Warning in Case of Fire

Complete building

3 x 2 = 6 | Substantial Risk

1 / 1

✔ Reasonable manually operated electrical fire alarm system provided? N/A

There is no communal fire alarm system.

— SC ⌚ 17 May 2023 14:49:58

✔ Automatic fire detection provided- Throughout the Premises? N/A

✔ Automatic fire detection provided- Part of the premises only? Yes

Flat units only have fire detection believed to be BS 5839-6 systems providing at least LD3 coverage.

— SC, RB ⌚ 22 Jun 2023 15:32:29

✖ Extent of automatic fire detection generally appropriate for the occupancy and fire risk? No

The premises should be provided with an appropriate fire warning system to a correct grade and with a correct detection level according to the occupancy, design and use of the building.

Likelihood: Moderate

Consequence: High Harm

3 x 2 = 6 | Substantial Risk

— SC, RB 17 May 2023 14:49:58

✔ Tasks 1

Fire warning system-correct grade/detection

In light of recent findings concerning compartmentation (service risers) and flat entrance doors, subject to further investigations/survey, the premises should be provided with an appropriate fire warning system to provide early warning to residents of a fire in other parts of the building which could facilitate full evacuation of a specific area of the block. Based on the findings of a compartmentation survey, additional fire detectors in flats should be considered as an interim measure until the building is emptied for redevelopment.

Location Complete building (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

High Priority

— complete by 23 Mar 2021 to reduce the risk by 100% SC, RB

Assigned Users Fire Safety Compliance

✔ Remote transmission of alarm signals? NA

This assessment has considered the communal areas where there is currently no fire alarm system or fire detection to initiate fire safety systems such as AOV.

Flats have only a smoke alarm in the hallways (LD3) and were due to have additional heat detection installed in kitchens/living area in 2021/22. The assessor is unable to confirm if these were installed.

Where this is not an open-plan area a smoke alarm is recommended for the living area providing LD2 coverage.

Following the fire at Kingsway flats, in Hanover Court earlier in 2020 and a specific fire risk assessment, the need to provide early warning to residents of a fire other than in their own dwelling was identified. This was in conjunction with providing an interim measure until all flat entrance doors are replaced with FD30S units and compartmentation work on service risers is completed.

A survey to determine fire alarm requirements is required and may link dwellings in particular off staircases that could become compromised by a fire due to the design and layout of the building.

See more up to date comments above in 'Premises Description' and 'Evacuation Strategy'.

2023: At time of assessment this work is still pending with the Kingsway blocks to be completed first and form a template for Hanover Court. The addition of smoke alarms in flats (not linked) may provide an acceptable interim solution by providing early warning should smoke enter a service riser from the fire compartment of origin and spread to other flats.

✔ Manual Fire Extinguishing Appliances

Hanover Court, Coronation Street, Cambridge

1 / 1

✔ Reasonable provision of portable fire extinguishers? N/A

Fire extinguishers might be located in caretakers office as per FRA in 2020. Also, FFE in the lift motor room. Neither area accessible by the assessor. No communal FFE.

— SC 22 Jun 2023 15:33:06

✔ Hose reels provided? N/A

✔ Are all fire extinguishing appliances readily accessible? N/A

Unable to confirm due to lack of access to the lift motor room and care takers office.

— SC 22 Jun 2023 15:32:57

It is not appropriate to provide fire extinguishers in the communal areas. The caretaker has two water (9L) in his office (Note. from 2020 FRA).

Relevant Fire Extinguishing Systems

Hanover Court, Coronation Street, Cambridge

1 / 2

✘ Is fixed firefighting equipment and fire safety systems provided where required and are they suitable for the risks identified? **No**

Fire fighters lift - assess

— SC, RB @ 22 Apr 2024 13:09:00



IMG_6484

— SC @ 15 Jul 2021 11:51:11

✔ Tasks 1

✔ Fire fighters lift - assess

The lift installation appears to have been a fire fighters lift when new. This should be confirmed or otherwise by lift engineers and its current suitability/reliability for use as such.

Location Hanover Court, Coronation Street, Cambridge (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

Medium Priority

— complete by 12 Jan 2022 to reduce the risk by 100% SC, RB

Assigned Users Steph Coppola

Completed Steph Coppola @ 22 Apr 2024 13:09:00

✔ Is a natural or mechanical smoke control system employed where necessary and is it appropriate for the location? **N/A**

There are no specifically designed smoke control provisions - see commentary above regarding the open walkway and main escape staircases.

— SC @ 22 Jun 2023 15:33:10

All Areas

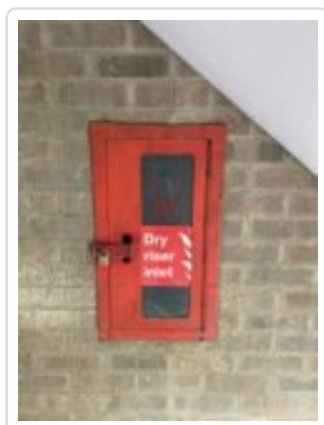
2 / 2

✔ Is fixed firefighting equipment and fire safety systems provided where required and are they suitable for the risks identified? **Yes**

Secure information box (SIB) and Dry Riser (DR) installed.

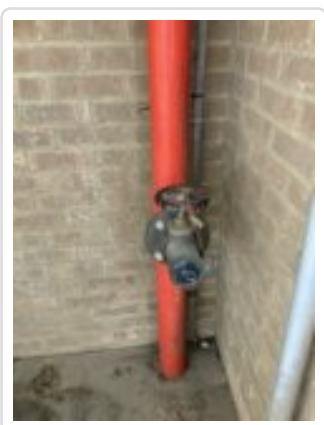
The DR outlets are not enclosed in a box for protection but were secured with a strap and lock.

— SC @ 22 Jun 2023 15:33:20



IMG_2369

— SC @ 18 May 2023 10:29:55



IMG_2359

— SC @ 18 May 2023 10:29:55



IMG_2346

— SC @ 18 May 2023 10:29:56



IMG_2363

— SC @ 18 May 2023 10:29:56



IMG_2365

— SC 18 May 2023 10:29:56



IMG_2354

— SC 18 May 2023 10:29:56

Is a natural or mechanical smoke control system employed where necessary and is it appropriate for the location? N/A

None installed.

— SC 22 Jun 2023 15:33:23

A dry riser outlet is provided on the 3rd and 6th floor walkways at each end of the building with the inlet directly below.

A SIB is located at the Coronation Street end of the block adjacent the access staircase. The information contained within it requires updating to be in line with the latest NFCC/FIA guidance. See Procedures and Arrangements below in this report.

It is recommended that the fire service are invited to use the DR's as part of a training/familiarisation exercise.

The lift has a fire fighters control switch outside the lift doors at ground level. It is not clear if this is still operative - see recommendation above and section below.

Other Relevant Fixed Systems and Equipment

All Areas 2 / 1

Has suitable provision of fire-fighters switch(es) for high voltage luminous tube signs, etc been made? N/A

Fire Doors

All Areas 1 / 1

Are Fire doors regularly maintained in accordance with the Fire Safety Order Yes

CCC have a survey program in place (this does not include leaseholders).
Leaseholders are being written to in order to establish the compliance of their flat entrance door.
— SC 22 Jun 2023 15:33:27

Does the fire door compliance documentation indicate that the doors have test reports to : BS 476 or BS EN 1634? Yes

Where the Council has instigated a door replacement program (2020/21) the contract specified doors to meet this standard and to be installed by a BM Trada Q Mark installer with documentation supplied to CCC.
— SC 22 Jun 2023 15:33:31

Are Fire Door test reports available for both sides of the fire door as required by Building Regulations Yes

As above.
— SC 18 May 2023 08:20:53

Do the electronic locks on fire exit doors fail safe on actuation of the fire alarm system? N/A

There are no fire exit doors linked to a fire alarm system although manual over ride devices are installed adjacent the bib room doors.
— SC 22 Jun 2023 15:33:35



IMG_2371

— SC 18 May 2023 08:20:11

✔ **Have you examined the fire door compliance documentation?** N/A

Compliance documentation is held centrally in Estates and Facilities.

— SC 22 Jun 2023 15:33:39

✔ **Has a fire door survey been conducted?** Yes

See comment above.

— SC 18 May 2023 08:20:53

With regard to leaseholders, a process has been agreed between the Risk Assurance and Compliance Team and the Leasehold Team (Housing Services) to write to the leaseholder for them to confirm and provide evidence that their FED is compliant.

There are high priority actions that have already been highlighted in May 2020 following the fire in Kingsway flats and the flat entrance door survey carried out in 2019. Progress to rectify these deficiencies is underway and was previously delayed by the national Covid issue in 2020/21.

July 2021: new FD30S flat entrance doors have been fitted in this block in the tenanted flats (except for one door) but leaseholder doors remain noncompliant.

As of 2023 only fire doors have been progressed and even then most leasehold doors appear to be noncompliant.

The other linked fire safety issue is the design of the building and how a fire might affect escape routes along with the service riser potentially not being adequately fire separated (subject to survey/appraisal).

A combination of measures would address this given it is not known how a fire may affect the semi open escape routes and includes linked fire warning systems.

Due to the pending redevelopment of the building (as of May 2023), work undertaken is likely to be limited but still needs to take account of the risk and implement the necessary to reduce this to a tolerable level.

Where possible, as residents are decanted, those at the highest levels and furthest from the escape routes/staircases should be relocated first. Flats that are located in the two main staircases should also be vacated to reduce the risk of the staircase being affected by a fire emanating from a flat entrance door. Where units are adopted for temporary accommodation those closest to the ground should be utilised over those at higher levels.

MANAGEMENT OF FIRE SAFETY

📄 Procedures and Arrangements

Complete building

3 x 2 = 6 | Substantial Risk

1 / 1

✔ **Competent person(s) appointed to assist in undertaking the preventive and protective measures (i.e. relevant general fire precautions)?** Yes

The Council has a fire safety advisor in place to assist Estates and Facilities/Compliance Team.

— SC 22 Jun 2023 15:33:42

✔ **Is there a suitable record of the fire safety arrangements?** Yes

The Fire Risk Management Strategy includes blocks of flats.

— SC 22 Jun 2023 15:33:48

✔ **Appropriate fire procedures in place?** Yes

Fire procedures (stay put) are displayed in Fire Action Notices around the block.
Where required these should be updated and the information shared with residents.
— SC @ 22 Jun 2023 15:33:45

✘ **Are procedures in the event of fire appropriate and properly documented?** No

Resident fire safety information

Likelihood: Low Consequence: Medium Harm 2 x 1 = 2 | Tolerable Risk

— SC, RB @ 22 Jun 2023 11:11:56

✔ **Tasks** 1

Resident fire safety information - provide

To comply with The Fire Safety (England) Regulations 2022, residents should be supplied with fire safety information and instruction appropriate to the building to include what to do in the event of a fire and the importance of a flat entrance fire door (where installed).

Location Complete building (Housing Services, Hanover Court, All Areas)

High Priority

— complete by 16 Aug 2023 to reduce the risk by 100% SC, RB

Assigned Users Fire Safety Compliance

✔ **Are there suitable arrangements for summoning the fire and rescue service?** N/A

Residents would be expected to call the FRS.
— SC @ 22 Jun 2023 15:33:51

✘ **Are there suitable arrangements to meet the fire and rescue service on arrival and provide relevant information, including that relating to hazards to fire-fighters?** No

Information available for firefighters on arrival at the premises requires updating.
— SC, RB @ 14 Feb 2024 11:49:53

✔ **Tasks** 1

✔ Information to firefighters (SIB)

Ensure the Secure information box (SIB) contains all information relevant to the emergency services. In particular in the case of the fire service, provide keys to the fire warning panel/s, relevant site and floor plans annotated with, or; separate details of hazards and risk rooms, as well as a vulnerability list where appropriate.

This should include evacuation arrangements, risks and location of residents - note. the current plans date from October 2007.

Once any PCFRAs have been carried out any relevant information/PEEPS should be held in the SIB.

Following further liaison with CFRS additional plans/information relating to the layout/numbering of flats might be required to be held in the PIB.

May 2023 - A contractor has been engaged to update the fire plans in line with the latest guidance for SIB/ERP.

Location Complete building (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

High Priority

— complete by 23 Mar 2021 to reduce the risk by 100% SC, RB

Assigned Users Alex Myhill

Completed Alex Myhill @ 14 Feb 2024 11:49:53

✔ **Are there suitable arrangements for ensuring that the premises have been evacuated?** N/A

✔ **Is there a suitable fire assembly point(s)?** N/A

✘ **Are there adequate procedures for evacuation of any disabled people who are likely to be present?** No

Procedures for people with restricted mobility (PRM) and/or who are vulnerable to be confirmed through person centred fire risk assessments (PCFRA).

Likelihood: Moderate Consequence: High Harm 3 x 2 = 6 | Substantial Risk

— SC, RB 22 Jun 2023 15:34:00

Tasks 1

PRM procedures

An action point from the recent specific fire risk assessment (SFRA) is to establish if there are residents who need assistance to evacuate their flat given the suspension of the stay put policy established through PCFRAs.

On completion of this survey PEEPs maybe required for individual residents with copies kept in the secure information box (SIB).

Location Complete building (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

High Priority

— complete by 23 Mar 2021 to reduce the risk by 100% SC, RB

Assigned Users Fire Safety Compliance Fire Safety Compliance

Persons nominated and trained to use fire extinguishing appliances? N/A

Fire extinguishers may still be kept in caretakers office

— SC 22 Jun 2023 15:33:54

Persons nominated and trained to assist with evacuation, including evacuation of disabled people? N/A

Appropriate liaison with fire and rescue service (e.g. by fire and rescue service crews visiting for familiarization visits)? Yes

Should CFRS require site visits this can be facilitated.

Building plans have been supplied to CFRS in accordance with the FS(E) Regs 2022.

— SC 22 Jun 2023 15:33:57

Routine in-house inspections of fire precautions (e.g. in the course of health and safety inspections)? Yes

The need to assess for potentially vulnerable residents who may have difficulty escaping independently has been highlighted following the fire in Kingsway. In 2020 a meeting to initiate a survey for PCFRA's took place. This was delayed by Covid-19. Letters sent out to residents resulted in no feedback regarding vulnerable residents although there seems to be 'local' awareness of such persons and this needs to be revisited through the residents groups. The need for this action will reduce as residents are decanted.

Temporary fire procedure arrangements (change to the evacuation strategy) may be required to be put in place following more information regarding fire compartmentation and fire doors being made available. In the interim period until the building is emptied, an early fire warning system extending beyond individual dwellings may also be required.

With regard to any changes in fire procedure, notices located at the entrances to the block would need to be amended/changed and an assembly point should be considered to assist the fire service in establishing who is involved in any fire incident as per Kingsway flats.

To comply with The Fire Safety (England) Regulation 2022, and to tie in with concerns about fire safety risks with the building, residents should be updated with fire safety information. This should be carried out ASAP and not be further delayed by decisions re surveys. A second wave of information/fire safety instruction would follow as required.

Training and Drills

Hanover Court, Coronation Street, Cambridge

1 / 1

Are all staff given adequate fire safety instruction and training on induction? Yes

CCC Caretaker only. residents are not required to undertake fire safety instruction and training (although CCC must provide relevant fire safety information).

— SC 22 Jun 2023 15:34:20

Are all staff given adequate periodic "refresher training" at suitable intervals? Yes

As above.

— SC 22 Jun 2023 11:13:28

Does all staff training provide information and instruction on the following: fire risks and fire safety measures in the

premises, action in the event of fire, action on hearing the fire alarm , method and operation of manual call points, location and use of fire extinguishers, means for summoning the fire and rescue service, the identity of persons nominated to assist with evacuation and the identity of persons nominated to use fire extinguishing appliances **Yes**

As above.

— SC ⌚ 22 Jun 2023 15:34:23

- ✔ Are staff with special responsibilities (e.g. fire wardens) given additional training? **N/A**
- ✔ Are fire drills carried out at appropriate intervals? **N/A**
- ✔ When the employees of another employer work in the premises: Is their employer given appropriate information (e.g. on fire risks and general fire precautions)? **N/A**
- ✔ Is it ensured that the employees in the above question are provided with adequate instructions and information? **N/A**

Contractors are subject to the fire safety and health and safety policies of the Council.

The caretaker has received fire awareness training as a CCC employee.

Testing and Maintenance

Complete building

1 / 1

- ✔ Are the premises fire safety provisions adequately maintained? **Yes**

See actions below.

— SC ⌚ 22 Jun 2023 15:34:26

- ✔ Weekly testing and periodic servicing of fire detection and alarm system? **N/A**

Resident should be advised to test their fire alarms regularly and report any defects.

— SC ⌚ 22 Jun 2023 15:34:29

- ✔ Monthly and annual testing routines for emergency escape lighting? **Yes**

ATL test EL system.

The record shows continual failures - this has been fed back to TSG by the assessor.

Annual test carried out 11.05.2023 by ATL.

— SC ⌚ 22 Jun 2023 15:34:38



IMG_2367

— SC ⌚ 17 May 2023 15:34:15

- ✘ Annual maintenance of fire extinguishing appliances? **No**

Portable fire fighting equipment in Caretakers office and lift motor room was not maintained in accordance with the current relevant standard and subject to an annual inspection by a qualified competent engineer.

— SC, RB ⌚ 22 Jul 2024 09:01:19

✔ Tasks **1**

- ✔ Portable fire extinguishers-annual maintenance

Portable fire fighting equipment should be maintained in accordance with the current relevant standard and subject to an annual inspection by a qualified competent engineer.

If there is a fire extinguisher located in the lift motor room (TBC) this should also be serviced.

Location Complete building (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

High Priority

— complete by 16 Aug 2023 to reduce the risk by 100% SC, RB

Assigned Users John Conroy

Completed John Conroy @ 22 Jul 2024 09:01:18

✔ **Periodic inspection of external escape staircases and gangways?** Yes

The short stairs up to the 1st floor flats are external and should be part of the care takers routines to ensure they are in good condition.
— SC @ 22 Jun 2023 15:34:43

✔ **Six-monthly inspection and annual testing of rising mains?** Yes

The DR installation was tested 01.06.2023.
A defective outlet valve (seized) was observed on one of the risers. This was approved for remedial action by CCC on 13.06.2023 (e-mail from John Conroy 13.06.2023). This should be undertaken ASAP to ensure the DR system is available for FRS use in the event of a fire on the upper levels - the lack of availability of this facility may delay the fire service n search and rescue/fire fighting operations.
A copy of the report is located in the documents section.
— SC, RB @ 22 Jun 2023 15:34:35

✔ **Weekly and monthly testing, six-monthly inspection and annual testing of fire-fighting lifts?** Yes

Testing in place - still not clear if the lifts are fire fighting installations - see above.
— SC @ 22 Jun 2023 15:34:40

✔ **Weekly testing and periodic inspection of sprinkler installations and smoke control systems?** N/A

✘ **Routine checks of final exit doors and/or security fastenings?** No

Testing of push to exit over rides (green boxes)
— SC, RB @ 22 Jul 2024 08:55:53

✔ Tasks 1

✔ Testing of push to exit over rides (green boxes)

These are located in the refuse rooms and should be regularly tested. Monthly testing with the emergency lighting is suggested.

Location Complete building (Estates & Facilities, Hanover Court, Coronation Street, Cambridge)

Low Priority

— complete by 16 Nov 2023 to reduce the risk by 100% SC, RB

Assigned Users John Conroy

Completed John Conroy @ 22 Jul 2024 08:55:53

✔ **Annual inspection and test of lightning protection system?** Yes

Carried out by Rodells 27.05.2022.
TSG have stated that they haven't been allocated this for 2023 - this should be followed up.
— SC, RB @ 22 Jun 2023 15:34:47

✔ **Are suitable systems in place for reporting and subsequent restoration of safety measures that have fallen below standard?** Yes

Arrangements are in put in place for all relevant tests for items in both the communal areas and individual dwellings by TSG.

Note. The door release buttons in the refuse rooms have manual over rides (green boxes) - these should be subject to regular testing (suggest monthly with emergency lighting).

The lift (including the lift for Hanover Ct) has a fire fighters switch to enable control of the lift. It is not clear if this is still effective.

An assessment by lift engineers is recommended. Given the height of the building this facility would be of use to the fire service.

🕒 Records

Hanover Court, Coronation Street, Cambridge

1 / 1

✔ **Appropriate records of: Fire drills?** N/A

✔ **Appropriate records of: Fire training?** N/A

✔ **Appropriate records of: Fire alarm tests?** N/A

✔ **Appropriate records of: Emergency escape lighting tests?** Yes

Testing in place with ATL.

— SC © 22 Jun 2023 15:35:01

✔ **Appropriate records of: Maintenance and testing of other fire protection systems?** Yes

See recommendations above re lifts (fire fighters??) and fire extinguishers.

— SC © 22 Jun 2023 15:35:06

Records are kept centrally and electronically.

There is a fire log on site (in the SIB) with limited records (emergency lighting only).

Further reports provided by TSG - need to ensure where failures have occurred they are fixed and this is recorded.

This building is encompassed within Cambridge City Council's Fire Safety Policy and Fire Risk Management Strategy. See the 'documents' section below.

There is liaison with the local fire protection officer (CFRS) and also with residents through leasehold representatives and CCC Estate Champions.

Management of fire safety has improved and the significant findings of fire risk assessments of recent assessments are being actioned with monitoring in place through the Fire Risk Management Group.

Legislative requirements and new technical guidance including flat entrance door inspections and external faces of the building have been considered in this assessment.

2023: Now that the building is going to be redeveloped with the occupancy reducing (and use of some units as temporary accommodation), fire safety management must not be reduced and should robustly remain in place.

The following are suggested interim actions/items to be explored by Cambridge City Council in mitigation for the unsatisfactory fire safety measures. These are for consideration against the fire risk actions highlighted in the significant findings above where, due to the pending development, it is not desirable to undertake full remedial works. The list is not exhaustive and combined is intended to reduce the risk to a more tolerable level for a short/medium period of time only. They are not intended as long term solutions.

1. Sample survey (Type 4) to establish condition of any fire compartmentation issues whereby fire and smoke may spread between flats via service risers. This will influence to what extent the other interim measures are suitable and acceptable. This information will also be required for the building safety case report to comply with the Building Safety Act and subsequent application for a building assessment certificate.
2. Amend the fire evacuation strategy to one where there is evacuation should occupants become aware of a fire rather than stay put and wait until/if they become at risk. This is not a full evacuation strategy but one where there is less of a delay, i.e. once residents are aware of a fire they leave the building immediately. Occupants away from a fire and unaware of it may therefore stay in situ in their flats. Note. this has been implemented at Kingsway flats in Cambridge's as an interim fire safety measure.
3. Point 2 links with providing updated fire safety information to residents which is required to comply with new legislation that came into force in January 2023.
4. Ensure information about the building and residents is up to date and appropriate for the risk level of the building taking account of the fire safety measures (and lack of) assessed in this report. This should be contained in the SIB and also provided to CFRS as required (some building information has already been passed to them). There are fire plans in the SIB and these are currently in the process of being updated by a CCC (using a contractor).
5. Provide wayfinding signage throughout the common areas as per ADB.
6. Consider installing additional automatic fire detection in the remaining occupied flats to provide improved early warning.
7. The risk profile may change through the use of some flat units for temporary accommodation where the occupancy is transitional and there is less familiarity with the building's layout. Such occupants along with the existing residents may be vulnerable. Where appropriate person centred fire risk assessments (PCFRA) should be carried out. This has been explored previously by CCC by attempting to identify vulnerable residents (via tenant reps') but did not bring to light any significant issues. Where voids are being reused as temporary accommodation PCFRAs might be relevant and should be considered when people are allocated flat units.

8. Where voids are selected for temporary accommodation usage, ideally they should be the ones closest to the ground and nearest the escape staircases but not those flats located in the stair (at each end of the building). Note. Those in the best condition might pose a greater fire risk due to their location.
9. Flats located in the stair present a risk from fire (if the flat entrance door is non compliant) potentially affecting the whole of the stair above the fire floor. Consideration should be given to these flats being voided before others if at all possible to ensure the staircases are available for escape purposes.
10. It might be appropriate (based on a sample fire compartmentation survey) to install a building fire alert system that enables the FRS to evacuate the whole building. This should be carefully considered not least as the staircase widths are not designed to evacuate large numbers of persons.

➤ References

Guidance in Support of Fire Safety Legislation

England and Wales

HM Government Guides to Fire Safety Risk Assessment, DCLG:

- Offices and Shops.
- Factories and Warehouses.
- Sleeping Accommodation.
- Residential Care Premises.
- Educational Premises.
- Small and Medium Places of Assembly.
- Large Places of Assembly.
- Theatres, Cinemas and Similar Premises.
- Open Air Events and Venues.
- Healthcare Premises.
- Animal Premises and Stables.
- Transport Premises and Facilities.
- Means of Escape for Disabled People.

Scotland

Scottish Government: Practical Fire Safety Guidance:

- Existing Non-Residential Premises.
- Existing Premises with Sleeping Accommodation.
- Care Homes.
- Healthcare Premises.
- The Evacuation of Disabled Persons from Buildings.

Northern Ireland

DHSSPS Sector Specific Guidance Documents:

- Sleeping Accommodation.
- Offices and Shops.
- Healthcare Premises.
- Theatres, Cinemas and Similar Premises.
- Small and Medium Places of Assembly.
- Open Air Events.

Guidance in Support of Building Regulations

England and Wales

- Approved Document B Vol 2, 2019 edition (as amended).

Scotland

- Technical Handbook 2019, Non-Domestic – Fire.

Northern Ireland

- Technical Booklet E 2012.

Fire Safety Design and Management

- BS 9991:2015. (Incorporating corrigendum No. 1.) Fire safety in the design, management and use of residential buildings. Code of practice.
- BS 9999:2017. Fire safety in the design, management and use of buildings. Code of practice.

Fire Detection and Fire Alarm Systems

- BS 5839-1:2017. Fire detection and fire alarm systems for buildings. Code of practice for design, installation, commissioning and maintenance of systems in non-domestic premises.
- BS 5839-6:2019. Fire detection and fire alarm systems for buildings - Code of practice for the design, installation, commissioning and maintenance of fire detection and fire alarm systems in domestic premises.
- BS 5839-8:2013. Fire detection and fire alarm systems for buildings - Code of practice for the design, installation, commissioning and maintenance of voice alarm systems.
- BS 5839-9:2011. Fire detection and fire alarm systems for buildings - Code of practice for the design, installation, commissioning and maintenance of emergency voice communication systems.

Fire Extinguishing Appliances

- BS 5306-1: 2006. Code of practice for fire extinguishing installations and equipment on premises - hose reels and foam inlets.
- BS 5306-3:2017. Fire extinguishing installations and equipment on premises. Commissioning and maintenance of portable fire extinguishers. Code of practice.
- BS 5306-8:2012. Fire extinguishing installations and equipment on premises - Selection and positioning of portable fire extinguishers - Code of practice.
- BS EN 3. Portable fire extinguishers.
- BS EN 671-3:2009. Fixed fire-fighting systems. Hose systems. Maintenance of hose reels with semi-rigid hose and hose systems with lay-flat hose.
- BS EN 1869:2019. Fire blankets.

Emergency Escape Lighting

- BS 5266-1:2016. Emergency lighting - Code of practice for the emergency lighting of premises.
- BS 5266-8:2004. (BS EN 50172: 2004). Emergency escape lighting systems.
- BS EN 1838:2013. Lighting applications - Emergency lighting.

Fire Safety Signs

- BS 5499-4:2013. Safety signs. Code of practice for escape route signing.
- BS ISO 3864-1:2011. Graphical symbols. Safety colours and safety signs. Design principles for safety signs and safety markings.
- BS EN ISO 7010:2020. Graphical symbols. Safety colours and safety signs. Registered safety signs.
- BS 5499-10:2014. Guidance for the selection and use of safety signs and fire safety notices.

Fixed Fire Extinguishing Systems and Equipment

- BS EN 12845:2015+A1 2019. Fixed fire-fighting systems. Automatic sprinkler systems. Design, installation and maintenance.
- BS 9990:2015. Non-automatic fire-fighting systems in buildings. Code of practice.

Lightning

- BS EN 62305-1:2011. Protection against lightning. General principles.
- BS EN 62305-2:2012. Protection against lightning. Risk management.
- BS EN 62305-3:2011. Protection against lightning. Physical damage to structures and life hazard.
- BS EN 62305-4:2011. Protection against lightning. Electrical and electronic systems within structures. Miscellaneous
- BS 7176:2007+A1: 2011. Specification for resistance to ignition of upholstered furniture for non-domestic seating by testing composites.
- BS 7273-4:2015. Code of practice for the operation of fire protection measures. Actuation of release mechanisms for doors.
- BS 7671:2018/A1:2020. Requirements for Electrical Installations. IET Wiring Regulations. Eighteenth Edition.
- BS 8899:2016. Improvement of fire-fighting and evacuation provisions in existing lifts.

Codes of practice

- PAS 79-1:2020. Fire risk assessment - Guidance and a recommended methodology.

Published Guidance on Control of Contractors

- Standard Fire Precautions for Contractors Engaged on Crown Works, Department of Environment, HMSO.
 - Fire Prevention on Construction Sites. Fire Protection Association.
 - Fire Safety in Construction. HSG168 (2nd edition) HSE.
-