



FIRNTEC
BUILDING COMPLIANCE

Unit 4a, Darklake View,
Estover
Plymouth
PL6 7TL

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Survey Date 27/03/2025
Suggested Review Date 27/03/2030

FIRE RISK APPRAISAL EXTERNAL WALLS

WIMBERGER HOUSE

Wimberger House
Hallam Street
West Brom
B71 4HA



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Summary

Fire Risk Appraisal External Walls

Assessment and Certificate Reference

RB-3ME3AJ

Assessed On, By

27/03/2025, Tom Barry CFPA-E Dip TC, TIFireE,
MIFSM, AMIFPO, CFRAR

Approved / Validated On, By

09/07/2025, James Major (Facade Manager)

Recommended Review Date

27/03/2030

Produced For the Responsible Person

Sandwell Metropolitan Council

Specification Conforms To

Our own internal quality system.

Assessment Scope

Assessment applies only to the building specified.

Assessed Property

Property Name

Wimberger House

Property Reference

RB-X18UDD

Address

Wimberger House
Hallam Street
West Brom
B71 4HA

Assessing Organisation

Firntec Ltd

4a Darklake View, Estover, Plymouth, Devon, PL6 7TL
0345 646 1566 — www.firntec.com

Abbreviation/ Term Definition

- **ACM** Aluminium Composite Material
- **ADB** Approved Document B
- **AOV** Automatic Opening Vent
- **BSA** Building Safety Act 2022
- **Cavity Barrier** Product used to close or separate a concealed space to restrict fire and smoke
- **Close State Cavity Barrier** Cavity Barrier designed to be fitted under compression/friction between inner and outer surfaces of a cavity to seal it
- **Open State Cavity Barrier** Cavity Barrier that is open to allow ventilation/drainage of cavity in open state but closes when a developing fire occurs (e.g., intumescent strip)
- **Combustible** Not classified as A1 OR A2 in accordance with BS EN 13501-1: 2018, and not meeting definitions of non-combustible or limited combustibility
- **Compartmentation** Subdivision of building by fire resisting walls and/or floors for limiting fire spread
- **EPS** Expanded Polystyrene
- **EWS1** External Wall System Fire Valuation Form
- **FB** Fire Barrier - Separating element with fire integrity for a specific time
- **Fire Stop** Barrier seal to close an imperfect fit in design between elements of components to stop the spread of fire
- **FRAEW** Fire Risk Appraisal of External Walls
- **FRA** Fire Risk Assessment
- **FRS** Fire and Rescue Services
- **FSA** Fire Safety Act 2021
- **HPL** High Pressure Laminate
- **HRR** Heat Release Rate
- **MDF** Medium Density Fibre Board (a type of manufactured timber)
- **PIR** Polyisocyanurate Rigid Foam
- **PUR** Polyurethane Foam
- **RP** Responsible Person
- **RRFSO** Regulatory Reform (Fire Safety) Order 2005
- **SFS** Steel Framing System
- **SIB** Secure Information Box

Statement of Competency

Statement of Competency to Carry out a Fire Risk Appraisal of External Wall Construction

Within PAS 9980:2022 it requires that a person conducting the FRAEW are competent to do so in accordance with Annex H and to demonstrate the expected skill sets of competent external wall assessors.

This is our Statement of Competence to carry out a Fire Risk Appraisal of External Wall construction.

We confirm that they have:

- a) Read and understood the commentary and provisions relating to the competence of external wall assessors set out in Section 8 and Annex H of PAS 9980:2022;
- b) Adequate and relevant competence to undertake the FRAEW;
- c) Sufficient knowledge, skills and experience in relation to fire safety of external walls to be able to complete an assessment at the level required;
- d) The relevant skill, knowledge, and experience to manage and interpret the results of intrusive inspections; and
- e) The competence to appraise and assess the nature of external wall construction in terms of fire performance and provide an opinion on the risk.
- f) No conflicts of interest of any kind, other than any which are disclosed in the report.
- g) The conclusions of the report are the author's independent assessment of the risks and remedial actions and have not been influenced in any way by the opinions or actions of others except where stated.

Terms of Reference

Particulars

This FRAEW report follows the guidance in accordance and reference to PAS9980:2022 Fire Risk Appraisal of External Walls construction and cladding of existing blocks of flats – Code of Practice.

Limitations

The FRAEW addresses life safety only in relation to the appraisal of the external walls of the building; and in considering risk, this is only in relation to the threat to the occupants in the building and not in terms of property damage or other potential objectives, such as safety of firefighters.

The FRAEW is not aimed at confirming compliance with building regulations, either at the time of construction, or currently.

The FRAEW cannot provide certainty and being risk-based report, it is, therefore, to a degree, reliant on professional judgement in its assessment and in the conclusions drawn within the report.

The FRAEW report is to be reviewed:

- a) if significant changes/repairs have been made to the external wall; and/or
- b) in the event of a fire incident, if the fire involved the external wall construction; and/or
- c) if there are any circumstances, depending upon the nature of the construction, the extent of available knowledge in relation to the particular materials, components and systems used on the building or the degree of uncertainty over the findings, which suggest review is appropriate. In these cases, the report will include a clear explanation as to why periodic review is necessary and include a suggested review date."

If more definitive information becomes available subsequent to the FRAEW on how particular external wall materials, components and systems behave in fire, or there are changes in the fire performance data relied upon in an FRAEW, such information will be expected to take precedence.

Assumptions

It is understood that the absence of evidence, is not evidence of the absence; therefore, within the FRAEW report suitable caveats or assumptions may be applied in arriving at a risk rating, for example, in relation to:

- a) the extent of sampling carried out.
- b) the accuracy of information upon which it has been necessary to rely, especially where it has not been possible to verify the information through site survey and inspection.
- c) the extent of the content and detail within the report; and
- d) the limitations at the time of the FRAEW of available knowledge on the fire performance of the materials, products and systems forming the external walls of the building.

Any caveats or assumptions made within the report are based on the most onerous and worst-case scenarios.

Statement of Intent

The investigation and writing of this FRAEW report has been commissioned at the clients request in line with PAS9980: 2022, which covers residential buildings of all heights with 2 or more dwellings, including hotels, with the aim to make sure that residents of multi-occupancy buildings are safe.

The Fire Safety Act 2021 also puts a legal responsibility on the responsible person where a building contains two or more sets of domestic premises to identify the building's structure and external walls and any common parts including doors or windows in those walls, and anything attached to the exterior of those walls (including balconies).

Supporting Documents

The following documentation was requested for review prior to our visit. Any provided documentation has been reviewed and considered as part of our findings. The range, quality and reliability of the information contained in the provided documents have been examined and deemed satisfactory for completing this FRAEW report:

Document	Received
Fire Risk Assessment (13/02/2024) Sandwell Metropolitan Borough Council Fire Risk Assessment.	Received

Executive Summary

External Wall Systems and Attachments on the Building

12 areas were inspected to gain data about the building's wall constructions. See the Inspections section of this report for full inspection details.

The table below outlines the ratings of the various wall systems and constructions to the property. Each element is explained in more detail further within this report.

7 Items	Effect	Risk
Wall Construction Brickwork (IGAQB2)	Positive	Low
Wall Construction Terracotta Tiles (1IRN8T)	Positive	Low
Wall Construction Render (QFDK2B)	Positive	Low
Wall Construction Aluminium panels (Q25UYE)	Positive	Low
Attachment Juliet Balcony (IY2WUR)	Neutral	Medium
External Window Top, Mid, Side Hung Casements (ST23HW)	Neutral	Medium
External Door French Doors (3DV1M6)	Neutral	Medium

In accordance with the PAS 9980 Guidance, any items of construction which are considered as "Medium Risk" should be subject to periodic review, to ensure that conditions do not change, such that the risk may be upgraded to high, prompting the requirement for remediation.

Risk Factor Analysis

The risk factor analysis is a three-stage process; rating the wall construction fire performance **(1)**, façade configuration **(2)**, and fire strategy/fire hazards **(3)** on a sliding risk scale. The risk scale is expressed as "high", "medium" and "low" in a continuum, left to right, from "high" risk to "low" risk. At the furthest left end of the "high" risk band, the risk is deemed to be the highest, reducing as the risk is positioned to the right of this.

Starting with high as a base line, **Stage 1** rates the fire performance risk factors of the wall construction.

Once fire performance factors have been taken into account, **Stage 2** overlays the risk factors of the façade configuration to determine the effect this has on where the risk now lies on the scale.

The final **Stage 3** overlays the risk factors arising from consideration of the fire strategy and fire hazards (including limitations of fire and rescue service intervention).

Risk Factor Analysis 1

This analysis looks at façade configuration **5ZBUKH** which includes wall construction **IGAQB2**.

Conclusion: The external surface is masonry brickwork. This offers strong fire resistance due to its non-combustible properties and high thermal mass. Bricks are inherently resistant to fire and do not ignite, burn, or contribute fuel to a fire, making them excellent for containing flames and preventing fire spread.

During a fire, brickwork reacts by absorbing and gradually dissipating heat, though intense, prolonged heat may cause cracking or spalling (surface breakage) due to thermal expansion. Despite these effects, the overall structure of brick masonry generally remains intact, ensuring the wall continues to act as a robust barrier against fire, heat, and smoke, which enhances its reliability in fire protection.

Beyond the brickwork is a cavity ahead of the insulating layer (90mm). The thermal insulation was identified to be mineral wool insulation, which is non-combustible and would restrict the spread of smoke/fire within the cavity in the event of a fire. The presence of mineral wool insulation is considered to have a positive impact in accordance with the recommendations of PAS 9980:2022.

Mineral wool, which includes materials like stone wool, is known for its excellent fire-resistant properties. Mineral wool has a very high melting point, typically around 1,000°C to 1,200°C. This makes it non-combustible, meaning it does not contribute to the spread of fire. In the event of a fire, mineral wool acts as a thermal barrier. Its fibrous structure traps air, reducing the transmission of heat to other parts of the structure and slowing the spread of fire. Mineral wool maintains its insulation properties and shape even at high temperatures, further protecting the structural components of buildings, like steel, from heat damage.

The insulation was not mechanically secured to the inner leaf block substrate. The inner leaf blockwork prevents the same fire behaviour as the outer leaf.

Due to the external wall construction (double skin masonry), cavity barriers are not typically required in line with compartment walls and floors; however, they are provided via the mineral wool insulation.

Around aperture openings, cavity barriers were identified, but the windows were viewed to close the cavity to assist in preventing the free flow of air within the cavity. Window frames are constructed via aluminium and will provide a degree of fire resistance in the early stages of a fire.

A glazed curtain walling system is provided centrally within the property and is supported via a suspected aluminium framing system. All materials installed as part of the curtain walling system are non-combustible and would not promote rapid fire spread.

The plasterboard inner leaf is considered limited in combustibility to prevent the passage of fire through the external wall system. No conclusion can be formed on the installation, fixing methods and spacings of fixings of the plasterboard sheets to confirm its installation as per the manufacturers guidelines.

It is accepted that the brickwork wall type begins at ground floor level and extends to the full height of the property, however, the external facing construction provided is non-combustible.

It is accepted that the property height is considered to have a negative impact in accordance with PAS 9980:2022,

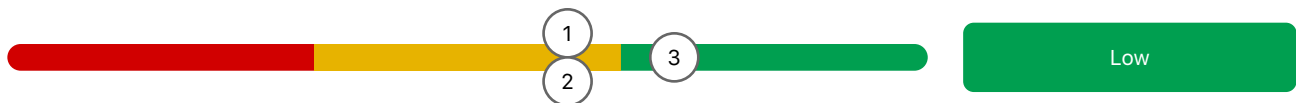
however, multiple staircases are provided from all floors to aid relevant persons with a safe and quick escape. All materials installed as part of this facade configuration are non-combustible, therefore, the risk of external fire spread is considered to be low.

The majority of the fire safety features provided to the block are in line with expectations for a general needs block of this size. The property operates a stay put policy and the existing fire safety provisions within the block would appear to support that.

In the event of a fire, fire spread is likely to be at a lower rate within expectations for a building of this height, given the circumstances at the building in question; and/or

- a) fire spread is unlikely to give rise to widespread secondary fires resulting in occupants being significantly harmed or prevented from escaping.
- b) fire is unlikely to spread in such a way that the communal means of escape will be compromised before occupants can safely use them to escape.

It is our professional opinion that there is no requirement for remediation within this wall type.



Risk Factor Analysis 2

This analysis looks at façade configuration **HG8X9P** which includes wall construction **Q25UYE**.

Conclusion: Aluminium panels are provided as part of the facade configuration. The external surfaces are aluminium which is considered to be non-combustible and would achieve a fire classification of Class A2 when tested in accordance with BS EN 13501-1.

Compressed Rockwool is used adjacent to the panel as insulation and the panels are mechanically fixed via a suspected aluminium framing support system, which in turn, is fixed to the masonry substrate.

The mineral wool is viewed as presenting a non-combustible product. This means this product will not ignite as such this poses a low risk to the contribution of fire and external fire spread. The existing insulation will perform adequately as a cavity barrier and will restrict the spread of smoke/fire beyond the compartment of origin. The presence of mineral wool within the facade construction is noted to have a positive impact in accordance with the guidance contained within PAS 9980:2022.

Around aperture openings, cavity barriers were identified but the windows were viewed to close the cavity to assist in preventing the free flow of air within the cavity. Window frames are constructed via aluminium and will provide a degree of fire resistance in the early stages of a fire.

A glazed curtain walling system is provided centrally within the property and is supported via a suspected aluminium framing system. All materials installed as part of the curtain walling system are non-combustible, and would promote rapid fire spread.

The plasterboard inner leaf is considered limited in combustibility to prevent the passage of fire through the external wall system. No conclusion can be formed on the installation, fixing methods and spacings of fixings of the plasterboard sheets to confirm its installation as per the manufacturers guidelines.

It is accepted that the aluminium panel system begins at ground/first floor level and extends to the full height of the property, however, the majority of the construction provided is non-combustible and the external facing construction is non-combustible, therefore it is unlikely to be affected in the early stages of a fire.

It is accepted that the property height is considered to have a negative impact in accordance with PAS 9980:2022, however, multiple staircases are provided from all floors to aid relevant persons with a safe and quick escape. The majority of the fire safety features provided to the block are in line with expectations for a general needs block of this size. The property operates a stay put policy and the existing fire safety provisions within the block would appear to support that.

In the event of a fire, fire spread is likely to be at a lower rate within expectations for a building of this height, but nevertheless, tolerable rate, given the circumstances at the building in question; and/or

a) fire spread is unlikely to give rise to widespread secondary fires resulting in occupants being significantly harmed or prevented from escaping.

b) fire is unlikely to spread in such a way that the communal means of escape will be compromised before occupants can safely use them to escape.

It is our professional opinion that there is no requirement for remediation within this wall type.



Risk Factor Analysis 3

This analysis looks at façade configuration **1Z3CVR** which includes wall construction **11RN8T**.

Conclusion: Terracotta tiles are provided as part of the facade configuration. The external surfaces are terracotta which is considered to be non-combustible and would achieve a fire classification of Class A1 when tested in accordance with BS EN 13501-1.

Compressed Rockwool is used adjacent to the panel as insulation, and the panels are mechanically fixed via a suspected aluminium framing support system, which in turn, is fixed to the masonry substrate.

The mineral wool is viewed as a non-combustible product. This means this product will not ignite as such this poses a low risk to the contribution of fire and external fire spread. The existing insulation will perform adequately as a cavity barrier and will restrict the spread of smoke/fire beyond the compartment of origin. The presence of mineral wool within the facade construction is noted to have a positive impact in accordance with the guidance contained within PAS 9980:2022.

Around aperture openings, cavity barriers were identified, but the windows were viewed to close the cavity to assist in preventing the free flow of air within the cavity. Window frames are constructed of aluminium and will provide a degree of fire resistance in the early stages of a fire.

A glazed curtain walling system is provided centrally within the property and is supported via a suspected aluminium framing system. All materials installed as part of the curtain walling system are non-combustible and would not promote rapid fire spread.

The plasterboard inner leaf is considered limited in combustibility to prevent the passage of fire through the external wall system. No conclusion can be formed on the installation, fixing methods and spacings of fixings of the plasterboard sheets to confirm its installation as per the manufacturer's guidelines.

It is accepted that the terracotta tiles system begins at ground/first floor level and extends to the full height of the property; however, the majority of the construction provided is non-combustible and the external facing construction is non-combustible, therefore it is unlikely to be affected in the early stages of a fire.

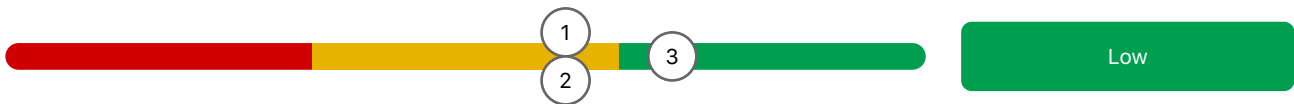
It is accepted that the property height is considered to have a negative impact in accordance with PAS 9980:2022, however, multiple staircases are provided from all floors to aid relevant persons with a safe and quick escape. The majority of the fire safety features provided to the block are in line with expectations for a general needs block of this size. The property operates a stay put policy, and the existing fire safety provisions within the block would appear to support that.

In the event of a fire, fire spread is likely to be at a lower rate within expectations for a building of this height, given the circumstances at the building in question; and/or

a) fire spread is unlikely to give rise to widespread secondary fires resulting in occupants being significantly harmed or prevented from escaping.

b) fire is unlikely to spread in such a way that the communal means of escape will be compromised before occupants can safely use them to escape.

It is our professional opinion that there is no requirement for remediation within this wall type.



Risk Factor Analysis 4

This analysis looks at façade configuration **EED8TV** which includes wall construction **QFDK2B**.

Conclusion: Cement render (5mm) has been adhesively applied to a dash coat which has been installed onto a render mesh. The render mesh is adhesively applied onto the mineral wool insulation (90mm). The mineral wool insulation appears to be mechanically fixed to the concrete substrate.

Cement render has a fire classification of Class A1 when tested in accordance with EN13501-1. The render was found to be in good condition, with no obvious signs of damage.

Beyond the render, thermal insulation is provided. The thermal insulation was identified to be mineral wool insulation (90mm), which is non-combustible and would restrict the spread of smoke/fire within the cavity in the event of a fire. The presence of mineral wool insulation is considered to have a positive impact in accordance with the recommendations of PAS 9980:2022.

Concrete is inherently resistant to fire and does not ignite, burn, or contribute fuel to a fire, making it excellent for containing flames and preventing fire spread.

During a fire, masonry reacts by absorbing and gradually dissipating heat, though intense, prolonged heat may cause cracking or spalling (surface breakage) due to thermal expansion. Despite these effects, the overall structure of concrete generally remains intact, ensuring the wall continues to act as a robust barrier against fire, heat, and smoke, which enhances its reliability in fire protection.

Around aperture openings, cavity barriers were identified, but the windows were viewed to close the cavity to assist in preventing the free flow of air within the cavity. Window frames are constructed of aluminium and will provide a degree of fire resistance in the early stages of a fire.

A glazed curtain walling system is provided centrally within the property and is supported via a suspected aluminium framing system. All materials installed as part of the curtain walling system are non-combustible and would not promote rapid fire spread.

The plasterboard inner leaf is considered limited in combustibility to prevent the passage of fire through the external wall system. No conclusion can be formed on the installation, fixing methods and spacings of fixings of the plasterboard sheets to confirm its installation as per the manufacturer's guidelines.

It is accepted that the render wall type begins at first floor level and extends to the full height of the property, however, the external facing construction provided is non-combustible.

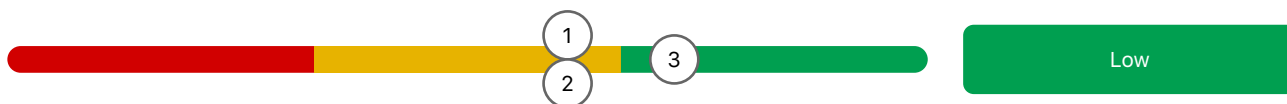
It is accepted that the property height is considered to have a negative impact in accordance with PAS 9980:2022, however, multiple staircases are provided from all floors to aid relevant persons with a safe and quick escape. All materials installed as part of this facade configuration are non-combustible, therefore, the risk of external fire spread is considered to be low.

The majority of the fire safety features provided to the block are in line with expectations for a general needs block of this size. The property operates a stay put policy, and the existing fire safety provisions within the block would appear to support that.

In the event of a fire, fire spread is likely to be at a lower rate within expectations for a building of this height, given the circumstances at the building in question; and/or

- a) fire spread is unlikely to give rise to widespread secondary fires resulting in occupants being significantly harmed or prevented from escaping.
- b) fire is unlikely to spread in such a way that the communal means of escape will be compromised before occupants can safely use them to escape.

It is our professional opinion that there is no requirement for remediation within this wall type.



Overall Building Risk Rating



Our professional opinion is that overall this Building represents a Positive PAS9980:2022 Outcome.

Recommended Remediations

No recommended remediations identified.

Recommended Interim Measures

No recommended interim measures identified.

Recommended Enhancements

No recommended enhancements identified.

Fire Strategy

Fire Strategy & Hazard Risk Factors

F.1 Occupancy

General needs housing

Neutral

F.2 Evacuation

Stay put

A 'stay put' policy is adopted for the flats. That is, in the event of a fire in a flat, the occupants of that dwelling will evacuate, having been alerted by their own domestic fire detection and alarm system, and request fire service attendance. All other occupants will remain in their flat unless they are threatened by fire and smoke or are advised to evacuate by the fire service. The 'stay put' evacuation policy relies heavily on adequate compartmentation being provided; fire should not spread from one dwelling to another, including by means of the external fabric of the building

Neutral

F.3 Escape Route Design

Access to more than one staircase for escape

Positive

F.4 Compartmentation

Adequate compartmentation in line with the expectations for a block of flats

Neutral

F.5 Smoke Control

Arrangements in which openable windows, AOVs or inlets and outlets of mechanical systems are of a satisfactory proximity away from combustible cladding; or that fire and smoke spread from the external envelope would be unlikely to compromise the effectiveness of the smoke control system or allow a route for fire spread back into the building

Neutral

F.6 Fire Alarm & Detection

Domestic smoke and heat alarms within flats, Category LD2 or LD3

Neutral

Audible alarm system provided within the community room.

Neutral

F.7 Fire Suppression

A deluge system is provided within the bin store area.

Positive

F.8 - Firefighting Facilities

Adequate access for firefighting vehicles

NOTE This is where access is possible in line with benchmark guidance on access for firefighting vehicles, taking into account the size of the building (floor area), height of the building and whether fire mains are present in the building.

Neutral

F.9 Rising Mains

Suitable rising main present

Neutral

F.10 Lifts Used By Firefighters

A passenger lift is provided.

F.11 Specific Fire Hazards

Vehicle parking on roadways adjacent to building

Neutral

Fire Service Intervention

Event	Seconds	Minutes & Seconds
Initiation to fire detection	120 Seconds	2 Minutes
Actuation Of Fire Detector To Transmission Of Alarm	10 Seconds	10 Seconds
Processing By Central Monitoring Station	60 Seconds	1 Minute
Receipt of call by fire service mobilising control	10 Seconds	10 Seconds
Transmission To Fire Station And Response	60 Seconds	1 Minute
Travelling Time Of Fire Service	240 Seconds	4 Minutes
Arrival Protocol And Entry Preparation Time	180 Seconds	3 Minutes
Firefighting Travel In Firefighting Lift	0 Seconds	—
Firefighter travel to operational bridgehead	315 Seconds	5 Minutes 15 Seconds
Firefighter Travel Walking Up Two Flights Of Stairs To Fire Floor (75 Seconds)	75 Seconds	1 Minute 15 Seconds
Total Time	1,070 Seconds	17 Minutes 50 Seconds

Nearest Fire Station

West Bromwich Fire Station is 0.8 miles in distance.

Wall Constructions

Wall Construction	Build-up
Brickwork (IGAQB2)	• External Surface Material (Masonry blockwork) • Cavity • Insulation (Mineral Wool Insulation) • Inner Leaf (Brickwork)
Terracotta Tiles (1IRN8T)	• External Surface Material (Terracotta tile) • Framework (Aluminium L/T Rail) • Cavity • Insulation (Mineral Wool Insulation) • Inner Leaf (Brickwork)
Render (QFDK2B)	• External Surface Material (Sto render) • Outer leaf • Insulation (Mineral Wool Insulation) • Inner Leaf (Blockwork)
Aluminium panels (Q25UYE)	• External Surface Material (Aluminium Panel) • Insulation (Mineral Wool Insulation enclose in foil) • Cavity • Inner Leaf (Reinforced concrete)

Wall Construction: Brickwork

Construction Reference
IGAQB2

This wall construction was identified by wall inspection 1RFH4K. The build-up, cavity barrier, and floor slab information is taken directly from inspection 1RFH4K. See the Inspections section of this report for full inspection details.

Construction	Effect	Risk
Brickwork (IGAQB2)	Positive	Low

Build-Up

4 Elements	Thickness/Depth	Material	Rating (BS EN13501)
External Surface Material	100mm	Masonry blockwork	A1 - Non-Combustible
Cavity	20mm		
Insulation	90mm	Mineral Wool Insulation	A1 - Non-Combustible
Inner Leaf	102mm	Brickwork	A1 - Non-Combustible

Cavity Barriers

1 Cavity Barrier	Material
Horizontal Cavity Barrier	Solid State Mineral Wool

Floor Slab

Backing Wall Sits On The Floor Slab

Fire Performance

K.1 General

Materials with a calorific value (gross heat of combustion) of ≤ 3 MJ/kg

Positive

K.2 External Surfaces

Class A1/A2

Positive

K.3 Facings/Cladding Panels

Low HRR

Positive

K.4 Panel Construction

Not Applicable

K.5 Cavities

Facings into the cavity at least Class A2

Positive

K.6 Insulation

Mineral/glass insulation

Positive

K.7 Substrate

Masonry, >75 mm thick

Positive

K.8 Sheathing Boards

Not Applicable

K.9 Insulated Core Panels

Not Applicable

K.10 ETICS

Not Applicable

K.11 Infill / Spandrel Panels

Not Applicable

K.12 Internal Finishes

Plasterboard

Note: The plasterboard can not be confirmed to be installed as per the manufacturers instructions or ensure its method of fixing

Neutral

PAS Standard Benchmark

L7 Benchmark

DOUBLE SKIN MASONRY

As set out previously in this PAS, a building whose external walls are composed exclusively of this form of construction is not ordinarily expected to require an FRAEW. However, it is recognized that this form of wall construction might be mixed with other forms of wall construction.

This form of construction constitutes the lowest risk form of construction that might be used for external walls, for the following reasons.

- Each leaf of the wall, provided it is formed of masonry/concrete at least 75 mm thick and is generally well constructed, is likely to provide at least 30 min fire resistance.
- The masonry/concrete is likely to be of limited combustibility or better.

Given the above, this form of construction is invariably accepted as:

- not requiring cavity barriers generally, except that cavity closers are needed so that there is no free flow of air through the cavity; and
- being able to accommodate combustible materials within the cavity irrespective of building height.

This is illustrated in Diagram 8.2 in ADB Volume 1:2019 [8]. The equivalent diagram in Volume 2:2019 [9] is Diagram 9.2.

BR135 Benchmark

We have compared this external wall type to the cladding systems found on the BR135 database and we did not find a cladding system with the configuration and components that would constitute an exact match to what our inspections found on the Property. Therefore, a BR135 benchmark would not be applicable for this external wall type

Wall Construction: Terracotta Tiles

Construction Reference
1IRN8T

This wall construction was identified by wall inspections P7XF77 and QAANN9. The build-up, cavity barrier, and floor slab information is taken directly from inspection P7XF77. See the Inspections section of this report for full inspection details.

Construction	Effect	Risk
Terracotta Tiles (1IRN8T)	Positive	Low

Build-Up

5 Elements	Thickness/Depth	Material	Rating (BS EN13501)
External Surface Material	15mm	Terracotta tile	A1 - Non-Combustible
Framework		Aluminium L/T Rail	A2 - Limited Combustibility
Cavity	90mm		
Insulation	90mm	Mineral Wool Insulation	A1 - Non-Combustible
Inner Leaf		Brickwork	

Cavity Barriers

1 Cavity Barrier	Material
Horizontal Cavity Barrier	Stonewool core, aluminium foil faces

Fire Performance

K.1 General

Materials with a calorific value (gross heat of combustion) of ≤ 3 MJ/kg

Positive

K.2 External Surfaces

Class A1/A2

Positive

K.3 Facings/Cladding Panels

Mechanically fixed

Positive

Low HRR

Positive

K.4 Panel Construction

Limited size of gaps between panels (Typically <10 mm)

Neutral

K.5 Cavities

Facings into the cavity at least Class A2

Positive

K.6 Insulation

Mineral/glass insulation

Positive

K.7 Substrate

Masonry, >75 mm thick

Positive

K.8 Sheathing Boards

Not Applicable

K.9 Insulated Core Panels

Not Applicable

K.10 ETICS

Not Applicable

K.11 Infill / Spandrel Panels

Not Applicable

K.12 Internal Finishes

Plasterboard

Note: The plasterboard can not be confirmed to be installed as per the manufacturers instructions or ensure its method of fixing

Neutral

PAS Standard Benchmark

L9 Benchmark

NON-COMBUSTIBLE and LIMITED COMBUSTIBILITY MATERIALS -

These materials can be subdivided into two categories; those which retain their shape when exposed to fire and those which do not.

- Natural stone, terracotta and non-combustible boards all generally remain in situ for a significant period of time when exposed to a fire plume emitting from a building (though they might eventually shatter), thus affording some protection to the underlying construction.
- Metals, depending upon their softening/melting temperature, might remain in situ or might soften, melt, or even rapidly oxidize, exposing the underlying construction to fire.

BR135 Benchmark

We have compared this external wall type to the cladding systems found on the BR135 database and we did not find a cladding system with the configuration and components that would constitute an exact match to what our inspections found on the Property. Therefore, a BR135 benchmark would not be applicable for this external wall type

Wall Construction: Render

Construction Reference
QFDK2B

This wall construction was identified by wall inspections 781DSZ, SJIKBS, D4B6IJ, and UB1FR1. The build-up, cavity barrier, and floor slab information is taken directly from inspection 781DSZ. See the Inspections section of this report for full inspection details.

Construction	Effect	Risk
Render (QFDK2B)	Positive	Low

Build-Up

4 Elements	Thickness/Depth	Material	Rating (BS EN13501)
External Surface Material	5mm	Sto render	A1 - Non-Combustible
Outer leaf	5mm		A1 - Non-Combustible
Cement dash coat			
Insulation	90mm	Mineral Wool Insulation	A1 - Non-Combustible
Inner Leaf		Blockwork	A1 - Non-Combustible

Cavity Barriers

1 Cavity Barrier	Material
Horizontal Cavity Barrier	Solid State Mineral Wool

Floor Slab

Backing Wall Sits On The Floor Slab

Fire Performance

K.1 General

Materials with a calorific value (gross heat of combustion) of ≤ 3 MJ/kg

Positive

K.2 External Surfaces

Class A1/A2

Positive

K.3 Facings/Cladding Panels

Adhesive fixed

Negative

Low HRR

Positive

K.4 Panel Construction

Not Applicable

K.5 Cavities

Facings into the cavity at least Class A2

Positive

K.6 Insulation

Mineral/glass insulation

Positive

K.7 Substrate

Masonry, >75 mm thick

Positive

K.8 Sheathing Boards

Not Applicable

K.9 Insulated Core Panels

Not Applicable

K.10 ETICS

Thin organic render or inorganic render on Class A1/A2 insulation

Positive

K.11 Infill / Spandrel Panels

Not Applicable

K.12 Internal Finishes

Plasterboard

Note: The plasterboard can not be confirmed to be installed as per the manufacturers instructions or ensure its method of fixing

Neutral

PAS Standard Benchmark

L10 Benchmark

ETICS -

These systems are sometimes referred to as rendered systems, as they feature an externally applied render coat as their weatherproof surface.

The level of risk that might potentially be posed by these systems is generally dictated by the type of insulation they incorporate.

- Mineral wool-based systems are likely to be low-risk.
- Rigid thermoset foam-based systems can be low-risk if fire barriers and cavity barriers (if a cavity exists behind the insulation) are properly provided. If there are gaps or other deficiencies then the level of risk might increase to medium or, in extreme cases, high.
- Thermoplastic foam-based systems might be low-risk if fire barriers and cavity barriers (if a cavity exists behind the insulation) are properly provided and where there is a significant thickness of cement-based render applied to the insulation. If there are gaps or other deficiencies, a non-cement-based (i.e. polymeric organic) render has been used or an insufficient thickness of cement-based render has been applied, then the level of risk is high.

In particular regard to thermoplastic systems, there are historic systems which are known to have had approximately 20 mm thick slivers of EPS insulation passing across the front of fire barriers, providing a route for fire to rapidly circumvent the barriers. It needs to be confirmed by inspection whether or not this situation exists; if it does exist, such a system is high risk irrespective of the type of render provided.

BR135 Benchmark

We have compared this external wall type to the cladding systems found on the BR135 database and we did not find a cladding system with the configuration and components that would constitute an exact match to what our inspections found on the Property. Therefore, a BR135 benchmark would not be applicable for this external wall type

Wall Construction: Aluminium panels

Construction Reference
Q25UYE

This wall construction was identified by wall inspections 4RUIUE and BPFFVL. The build-up, cavity barrier, and floor slab information is taken directly from inspection 4RUIUE. See the Inspections section of this report for full inspection details.

Construction

Effect

Risk

Aluminium panels (Q25UYE)

Positive

Low

Build-Up

4 Elements

Thickness/Depth

Material

Rating (BS EN13501)

External Surface
Material

3mm

Aluminium Panel

A2 - Limited
Combustibility

Insulation

100mm

Mineral Wool Insulation enclose in foil

A1 - Non-Combustible

Cavity

30mm

Inner Leaf

Reinforced concrete
Material Brand: Concrete wall

A1 - Non-Combustible

Cavity Barriers

1 Cavity Barrier

Material

Window Aperture

Stonewool core, aluminium foil faces

Floor Slab

Reinforced concrete

Fire Performance

K.1 General

Materials with a calorific value (gross heat of combustion) of ≤ 3 MJ/kg

Positive

K.2 External Surfaces

Class A1/A2

Positive

K.3 Facings/Cladding Panels

Mechanically fixed

Positive

K.4 Panel Construction

Limited size of gaps between panels (Typically < 10 mm)

Neutral

K.5 Cavities

Facings into the cavity at least Class A2

Positive

K.6 Insulation

Mineral/glass insulation

Positive

K.7 Substrate

Masonry, > 75 mm thick

Positive

K.8 Sheathing Boards

Not Applicable

K.9 Insulated Core Panels

Non-combustible insulation encapsulated in metal

Positive

K.10 ETICS

Not Applicable

K.11 Infill / Spandrel Panels

Metal faced, with Class A1/A2 core

Positive

K.12 Internal Finishes

Plasterboard

Note: The plasterboard can not be confirmed to be installed as per the manufacturers instructions or ensure its method of fixing

Neutral

PAS Standard Benchmark

L10 Benchmark

SANDWICH PANEL SYSTEMS -

Sandwich panels are formed of insulation between two sheets of metal. The particular materials used in sandwich panel construction determine the potential hazard that could be presented if the sandwich panel becomes involved in fire (see Table L.2 and Table L.3). Whether or not the insulating core of sandwich panels will become exposed to fire depends upon the manner in which joints and edges are addressed.

Sandwich panels might be incorporated within an external wall construction (potentially as loadbearing elements) and overlaid by a rainscreen, or might be exposed to the exterior, effectively as a rainscreen in their own right.

BR135 Benchmark

We have compared this external wall type to the cladding systems found on the BR135 database and we did not find a cladding system with the configuration and components that would constitute an exact match to what our inspections found on the Property. Therefore, a BR135 benchmark would not be applicable for this external wall type

Façade Configuration: 5ZBUKH

Items in Façade

4 Items

	Effect	Risk
Wall Construction Brickwork (IGAQB2)	Positive	Low
Attachment Juliet Balcony (IY2WUR)	Neutral	Medium
External Door French Doors (3DV1M6)	Neutral	Medium
External Window Top, Mid, Side Hung Casements (ST23HW)	Neutral	Medium

Façade Configuration Risk Factors

N.1 Building Height/Cladding Height

18 m to 30 m

Negative

N.2 Height of Base of Cladding (Above Ground)

<2 m

NOTE At this height, the likelihood of a fire originating externally (e.g. involving a parked vehicle or waste skip started either accidentally or deliberately) igniting the cladding is highly likely.

Negative

N.3 Extent of Cladding

Entire façade covered

Negative

N.4 Cavities & Openings

Continuous vertically running cavity with cavity barriers or fire stops as appropriate

Positive

N.5 Infill / Spandrel Panels

Not Applicable

N.6 Setbacks - Combustible Cladding Setback from Wall Edge

Not Applicable

N.7 Overhangs & Projections

Not Applicable

N.8 Proximity to Windows and Other Openings to the Accommodation

Horizontally adjacent to windows and openings, but not vertically in line with such openings, such that fire and smoke spread into the buildings, causing secondary fires, as a result of direct flame impingement, is possible, but only under adverse wind conditions

Neutral

N.9 Presence of vents or other openings for services in the Façade

Where vents pass through a cavity, either:

- the cavity does not include combustible materials; or
- the cavity is faced on either side by brick or concrete at least 75 mm thick and any combustible insulation in the cavity is not thermoplastic

Positive

N10. Proximity of Combustible Elements of a Façade to Escape Route Windows & Other Openings

Adjacent to windows and openings onto escape routes, but the same fire could not spread to affect more than one escape route

Positive

N.11 Attachments

Not Applicable

N.12 Proximity of Combustible Elements of a Façade to a Neighbouring Building

Windows or other openings in adjacent or abutting neighbouring buildings are sufficiently distanced that direct flame impingement from a fire in the neighbouring building is unforeseeable

Neutral

Risk Factor Analysis

Conclusion: The external surface is masonry brickwork. This offers strong fire resistance due to its non-combustible properties and high thermal mass. Bricks are inherently resistant to fire and do not ignite, burn, or contribute fuel to a fire, making them excellent for containing flames and preventing fire spread.

During a fire, brickwork reacts by absorbing and gradually dissipating heat, though intense, prolonged heat may cause cracking or spalling (surface breakage) due to thermal expansion. Despite these effects, the overall structure of brick masonry generally remains intact, ensuring the wall continues to act as a robust barrier against fire, heat, and smoke, which enhances its reliability in fire protection.

Beyond the brickwork is a cavity ahead of the insulating layer (90mm). The thermal insulation was identified to be mineral wool insulation, which is non-combustible and would restrict the spread of smoke/fire within the cavity in the event of a fire. The presence of mineral wool insulation is considered to have a positive impact in accordance with the recommendations of PAS 9980:2022.

Mineral wool, which includes materials like stone wool, is known for its excellent fire-resistant properties. Mineral wool has a very high melting point, typically around 1,000°C to 1,200°C. This makes it non-combustible, meaning it does not contribute to the spread of fire. In the event of a fire, mineral wool acts as a thermal barrier. Its fibrous structure traps air, reducing the transmission of heat to other parts of the structure and slowing the spread of fire. Mineral wool maintains its insulation properties and shape even at high temperatures, further protecting the structural components of buildings, like steel, from heat damage.

The insulation was not mechanically secured to the inner leaf block substrate. The inner leaf blockwork prevents the same fire behaviour as the outer leaf.

Due to the external wall construction (double skin masonry), cavity barriers are not typically required in line with compartment walls and floors; however, they are provided via the mineral wool insulation.

Around aperture openings, cavity barriers were identified, but the windows were viewed to close the cavity to assist in preventing the free flow of air within the cavity. Window frames are constructed via aluminium and will provide a degree of fire resistance in the early stages of a fire.

A glazed curtain walling system is provided centrally within the property and is supported via a suspected aluminium framing system. All materials installed as part of the curtain walling system are non-combustible and would not promote rapid fire spread.

The plasterboard inner leaf is considered limited in combustibility to prevent the passage of fire through the external wall system. No conclusion can be formed on the installation, fixing methods and spacings of fixings of the plasterboard sheets to confirm its installation as per the manufacturers guidelines.

It is accepted that the brickwork wall type begins at ground floor level and extends to the full height of the property, however, the external facing construction provided is non-combustible.

It is accepted that the property height is considered to have a negative impact in accordance with PAS 9980:2022, however, multiple staircases are provided from all floors to aid relevant persons with a safe and quick escape. All materials installed as part of this facade configuration are non-combustible, therefore, the risk of external fire spread is considered to be low.

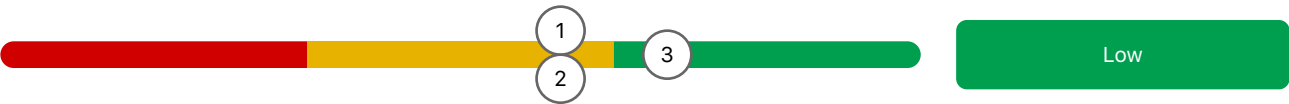
The majority of the fire safety features provided to the block are in line with expectations for a general needs block of this size. The property operates a stay put policy and the existing fire safety provisions within the block would

appear to support that.

In the event of a fire, fire spread is likely to be at a lower rate within expectations for a building of this height, given the circumstances at the building in question; and/or

- a) fire spread is unlikely to give rise to widespread secondary fires resulting in occupants being significantly harmed or prevented from escaping.
- b) fire is unlikely to spread in such a way that the communal means of escape will be compromised before occupants can safely use them to escape.

It is our professional opinion that there is no requirement for remediation within this wall type.



Façade Configuration: HG8X9P

Items in Façade

2 Items

	Effect	Risk
Wall Construction Aluminium panels (Q25UYE)	Positive	Low
External Window Top, Mid, Side Hung Casements (ST23HW)	Neutral	Medium

Façade Configuration Risk Factors

N.1 Building Height/Cladding Height

18 m to 30 m

Negative

N.2 Height of Base of Cladding (Above Ground)

2 m to 5 m

NOTE At this height, the scope for a fire originating externally (e.g. involving a parked vehicle or waste skip started either accidentally or deliberately) igniting the cladding is considered possible, but not likely at an early stage in the development of the fire.

Neutral

N.3 Extent of Cladding

Entire façade covered

Negative

N.4 Cavities & Openings

Continuous vertically running cavity with cavity barriers or fire stops as appropriate

Positive

N.5 Infill / Spandrel Panels

In a vertical continuous line with windows such as to increase the likelihood of secondary fires

Negative

N.6 Setbacks - Combustible Cladding Setback from Wall Edge

Not Applicable

N.7 Overhangs & Projections

Not Applicable

N.8 Proximity to Windows and Other Openings to the Accommodation

Horizontally adjacent to windows and openings, but not vertically in line with such openings, such that fire and smoke spread into the buildings, causing secondary fires, as a result of direct flame impingement, is possible, but only under adverse wind conditions

Neutral

N.9 Presence of vents or other openings for services in the Façade

Not Applicable

N10. Proximity of Combustible Elements of a Façade to Escape Route Windows & Other Openings

Adjacent to windows and openings onto escape routes, but the same fire could not spread to affect more than one escape route

Positive

N.11 Attachments

Not Applicable

N.12 Proximity of Combustible Elements of a Façade to a Neighbouring Building

Windows or other openings in adjacent or abutting neighbouring buildings are sufficiently distanced that direct flame impingement from a fire in the neighbouring building is unforeseeable

Neutral

Risk Factor Analysis

Conclusion: Aluminium panels are provided as part of the facade configuration. The external surfaces are aluminium which is considered to be non-combustible and would achieve a fire classification of Class A2 when tested in accordance with BS EN 13501-1.

Compressed Rockwool is used adjacent to the panel as insulation and the panels are mechanically fixed via a suspected aluminium framing support system, which in turn, is fixed to the masonry substrate.

The mineral wool is viewed as presenting a non-combustible product. This means this product will not ignite as such this poses a low risk to the contribution of fire and external fire spread. The existing insulation will perform adequately as a cavity barrier and will restrict the spread of smoke/fire beyond the compartment of origin. The presence of mineral wool within the facade construction is noted to have a positive impact in accordance with the guidance contained within PAS 9980:2022.

Around aperture openings, cavity barriers were identified but the windows were viewed to close the cavity to assist in preventing the free flow of air within the cavity. Window frames are constructed via aluminium and will provide a degree of fire resistance in the early stages of a fire.

A glazed curtain walling system is provided centrally within the property and is supported via a suspected aluminium framing system. All materials installed as part of the curtain walling system are non-combustible, and would promote rapid fire spread.

The plasterboard inner leaf is considered limited in combustibility to prevent the passage of fire through the external wall system. No conclusion can be formed on the installation, fixing methods and spacings of fixings of the plasterboard sheets to confirm its installation as per the manufacturers guidelines.

It is accepted that the aluminium panel system begins at ground/first floor level and extends to the full height of the property, however, the majority of the construction provided is non-combustible and the external facing construction is non-combustible, therefore it is unlikely to be affected in the early stages of a fire.

It is accepted that the property height is considered to have a negative impact in accordance with PAS 9980:2022, however, multiple staircases are provided from all floors to aid relevant persons with a safe and quick escape. The majority of the fire safety features provided to the block are in line with expectations for a general needs block of this size. The property operates a stay put policy and the existing fire safety provisions within the block would appear to support that.

In the event of a fire, fire spread is likely to be at a lower rate within expectations for a building of this height, but nevertheless, tolerable rate, given the circumstances at the building in question; and/or

a) fire spread is unlikely to give rise to widespread secondary fires resulting in occupants being significantly harmed or prevented from escaping.

b) fire is unlikely to spread in such a way that the communal means of escape will be compromised before occupants can safely use them to escape.

It is our professional opinion that there is no requirement for remediation within this wall type.



Façade Configuration: 1Z3CVR

Items in Façade

2 Items

	Effect	Risk
Wall Construction Terracotta Tiles (1IRN8T)	Positive	Low
External Window Top, Mid, Side Hung Casements (ST23HW)	Neutral	Medium

Façade Configuration Risk Factors

N.1 Building Height/Cladding Height

18 m to 30 m

Negative

N.2 Height of Base of Cladding (Above Ground)

2 m to 5 m

NOTE At this height, the scope for a fire originating externally (e.g. involving a parked vehicle or waste skip started either accidentally or deliberately) igniting the cladding is considered possible, but not likely at an early stage in the development of the fire.

Neutral

N.3 Extent of Cladding

Entire façade covered

Negative

N.4 Cavities & Openings

Continuous vertically running cavity with cavity barriers or fire stops as appropriate

Positive

N.5 Infill / Spandrel Panels

Not Applicable

N.6 Setbacks - Combustible Cladding Setback from Wall Edge

Not Applicable

N.7 Overhangs & Projections

Not Applicable

N.8 Proximity to Windows and Other Openings to the Accommodation

Horizontally adjacent to windows and openings, but not vertically in line with such openings, such that fire and smoke spread into the buildings, causing secondary fires, as a result of direct flame impingement, is possible, but only under adverse wind conditions

Neutral

N.9 Presence of vents or other openings for services in the Façade

Where vents pass through a cavity, either:

- the cavity does not include combustible materials; or
- the cavity is faced on either side by brick or concrete at least 75 mm thick and any combustible insulation in the cavity is not thermoplastic

Positive

N10. Proximity of Combustible Elements of a Façade to Escape Route Windows & Other Openings

Remote from windows and openings, such that fire spread into the escape routes to give rise to untenable conditions is remote

Neutral

N.11 Attachments

Not Applicable

N.12 Proximity of Combustible Elements of a Façade to a Neighbouring Building

Windows or other openings in adjacent or abutting neighbouring buildings are sufficiently distanced that direct flame impingement from a fire in the neighbouring building is unforeseeable

Neutral

Risk Factor Analysis

Conclusion: Terracotta tiles are provided as part of the facade configuration. The external surfaces are terracotta which is considered to be non-combustible and would achieve a fire classification of Class A1 when tested in accordance with BS EN 13501-1.

Compressed Rockwool is used adjacent to the panel as insulation, and the panels are mechanically fixed via a suspected aluminium framing support system, which in turn, is fixed to the masonry substrate.

The mineral wool is viewed as a non-combustible product. This means this product will not ignite as such this poses a low risk to the contribution of fire and external fire spread. The existing insulation will perform adequately as a cavity barrier and will restrict the spread of smoke/fire beyond the compartment of origin. The presence of mineral wool within the facade construction is noted to have a positive impact in accordance with the guidance contained within PAS 9980:2022.

Around aperture openings, cavity barriers were identified, but the windows were viewed to close the cavity to assist in preventing the free flow of air within the cavity. Window frames are constructed of aluminium and will provide a degree of fire resistance in the early stages of a fire.

A glazed curtain walling system is provided centrally within the property and is supported via a suspected aluminium framing system. All materials installed as part of the curtain walling system are non-combustible and would not promote rapid fire spread.

The plasterboard inner leaf is considered limited in combustibility to prevent the passage of fire through the external wall system. No conclusion can be formed on the installation, fixing methods and spacings of fixings of the plasterboard sheets to confirm its installation as per the manufacturer's guidelines.

It is accepted that the terracotta tiles system begins at ground/first floor level and extends to the full height of the property; however, the majority of the construction provided is non-combustible and the external facing construction is non-combustible, therefore it is unlikely to be affected in the early stages of a fire.

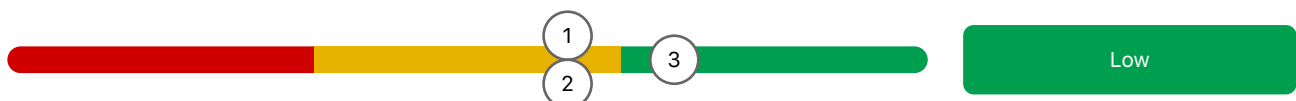
It is accepted that the property height is considered to have a negative impact in accordance with PAS 9980:2022, however, multiple staircases are provided from all floors to aid relevant persons with a safe and quick escape. The majority of the fire safety features provided to the block are in line with expectations for a general needs block of this size. The property operates a stay put policy, and the existing fire safety provisions within the block would appear to support that.

In the event of a fire, fire spread is likely to be at a lower rate within expectations for a building of this height, given the circumstances at the building in question; and/or

a) fire spread is unlikely to give rise to widespread secondary fires resulting in occupants being significantly harmed or prevented from escaping.

b) fire is unlikely to spread in such a way that the communal means of escape will be compromised before occupants can safely use them to escape.

It is our professional opinion that there is no requirement for remediation within this wall type.



Façade Configuration: EED8TV

Items in Façade

2 Items	Effect	Risk
Wall Construction Render (QFDK2B)	Positive	Low
External Window Top, Mid, Side Hung Casements (ST23HW)	Neutral	Medium

Façade Configuration Risk Factors

N.1 Building Height/Cladding Height

18 m to 30 m	Negative
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N.2 Height of Base of Cladding (Above Ground)

>5 m NOTE At this height, the likelihood of a fire originating externally (e.g. involving a parked vehicle or waste skip and started either accidentally or deliberately) igniting the cladding is highly unlikely.	Positive
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N.3 Extent of Cladding

Entire façade covered	Negative
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N.4 Cavities & Openings

Continuous vertically running cavity with cavity barriers or fire stops as appropriate	Positive
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N.5 Infill / Spandrel Panels

Not Applicable	
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N.6 Setbacks - Combustible Cladding Setback from Wall Edge

Not Applicable

N.7 Overhangs & Projections

Not Applicable

N.8 Proximity to Windows and Other Openings to the Accommodation

Horizontally adjacent to windows and openings, but not vertically in line with such openings, such that fire and smoke spread into the buildings, causing secondary fires, as a result of direct flame impingement, is possible, but only under adverse wind conditions

Neutral

N.9 Presence of vents or other openings for services in the Façade

Where vents pass through a cavity, either:

- the cavity does not include combustible materials; or
- the cavity is faced on either side by brick or concrete at least 75 mm thick and any combustible insulation in the cavity is not thermoplastic

Positive

N10. Proximity of Combustible Elements of a Façade to Escape Route Windows & Other Openings

Remote from windows and openings, such that fire spread into the escape routes to give rise to untenable conditions is remote

Neutral

N.11 Attachments

Not Applicable

N.12 Proximity of Combustible Elements of a Façade to a Neighbouring Building

Windows or other openings in adjacent or abutting neighbouring buildings are sufficiently distanced that direct flame impingement from a fire in the neighbouring building is unforeseeable

Neutral

Risk Factor Analysis

Conclusion: Cement render (5mm) has been adhesively applied to a dash coat which has been installed onto a render mesh. The render mesh is adhesively applied onto the mineral wool insulation (90mm). The mineral wool insulation appears to be mechanically fixed to the concrete substrate.

Cement render has a fire classification of Class A1 when tested in accordance with EN13501-1. The render was found to be in good condition, with no obvious signs of damage.

Beyond the render, thermal insulation is provided. The thermal insulation was identified to be mineral wool insulation (90mm), which is non-combustible and would restrict the spread of smoke/fire within the cavity in the event of a fire. The presence of mineral wool insulation is considered to have a positive impact in accordance with the recommendations of PAS 9980:2022.

Concrete is inherently resistant to fire and does not ignite, burn, or contribute fuel to a fire, making it excellent for containing flames and preventing fire spread.

During a fire, masonry reacts by absorbing and gradually dissipating heat, though intense, prolonged heat may cause cracking or spalling (surface breakage) due to thermal expansion. Despite these effects, the overall structure of concrete generally remains intact, ensuring the wall continues to act as a robust barrier against fire, heat, and smoke, which enhances its reliability in fire protection.

Around aperture openings, cavity barriers were identified, but the windows were viewed to close the cavity to assist in preventing the free flow of air within the cavity. Window frames are constructed of aluminium and will provide a degree of fire resistance in the early stages of a fire.

A glazed curtain walling system is provided centrally within the property and is supported via a suspected aluminium framing system. All materials installed as part of the curtain walling system are non-combustible and would not promote rapid fire spread.

The plasterboard inner leaf is considered limited in combustibility to prevent the passage of fire through the external wall system. No conclusion can be formed on the installation, fixing methods and spacings of fixings of the plasterboard sheets to confirm its installation as per the manufacturer's guidelines.

It is accepted that the render wall type begins at first floor level and extends to the full height of the property, however, the external facing construction provided is non-combustible.

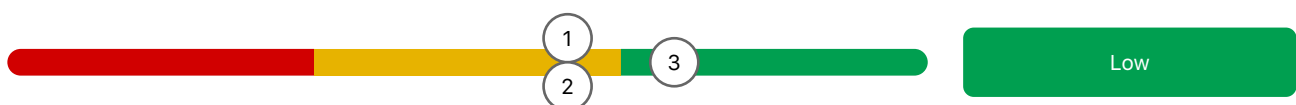
It is accepted that the property height is considered to have a negative impact in accordance with PAS 9980:2022, however, multiple staircases are provided from all floors to aid relevant persons with a safe and quick escape. All materials installed as part of this facade configuration are non-combustible, therefore, the risk of external fire spread is considered to be low.

The majority of the fire safety features provided to the block are in line with expectations for a general needs block of this size. The property operates a stay put policy, and the existing fire safety provisions within the block would appear to support that.

In the event of a fire, fire spread is likely to be at a lower rate within expectations for a building of this height, given the circumstances at the building in question; and/or

- a) fire spread is unlikely to give rise to widespread secondary fires resulting in occupants being significantly harmed or prevented from escaping.
- b) fire is unlikely to spread in such a way that the communal means of escape will be compromised before occupants can safely use them to escape.

It is our professional opinion that there is no requirement for remediation within this wall type.



APPENDIX

Asset Information

Client Name

Sandwell Metropolitan Council

Client Address

Sandwell Council House, Freeth Street, Oldbury B69 3DE

Responsible Person

Sandwell Metropolitan Council

Contact Details

Lisa Ellis - 0121 569 0162

Fire Alarm System

There is no BS5839 (Part 6 or Part 1) Fire detection/alarm system provided in the common areas of the building. The smoke detection provided is part of the smoke ventilation system and has its own control panel located within the riser cupboards

Emergency Lighting

Installed in communal parts

Emergency Lighting

Emergency lighting appears to conform to the requirements of BS5266-1 design standard. The system appears to provide adequate coverage and be in good working order (indicator lights active on luminaires). Luminaires appear to be correctly sited and appear to provide adequate lighting.

Portable Fire Fighting Equipment

Portable Fire Fighting Equipment installed within the communal areas, Portable Fire Fighting Equipment installed within staff only / Restricted areas of the building

Portable Fire Fighting Equipment

Portable fire extinguishers (CO2) is provided to the lift motor room and community room (CO2 and water).

Smoke Control

Natural smoke control, Smoke control installed

Smoke Control

The stairs and/or lobbies are provided with adequate permanent or manually operated ventilation openings for the control of smoke. Manual openable windows within the stairwell and the stairs and lobbies are provided with an automatic smoke ventilation system

Suppression Systems

Partial sprinkler system installed (Detailed in Description)

Suppression System

A suppression system is installed within high risk areas such as the refuse/bin store

Fire Fighting Facilities

Dry Riser

Fire Fighting Facilities

Dry riser outlets were located on each floor within the firefighting lobby area, ensuring accessible water supply for firefighting operations. This placement allows for efficient connection of firefighting hoses, providing vital water access to emergency services during fire incidents across all floor levels.

Access for fire-fighting vehicles

Adequate access for firefighting vehicles

NOTE This is where access is possible in line with benchmark guidance on access for firefighting vehicles from Approved Document B, taking into account the size of the building (floor area), height of the building and whether fire mains are present in the building.

Fire Hydrant Location/ Water Supply

Fire hydrant is located 2m from the main access point of the building.

Housekeeping

Good standard. Means of escape clear. Refuse stored appropriately

Secure Information Boxes

Secure information box (SIB) installed

Signage

Appropriate signage installed throughout premises

Property Type

Residential

Building Era / Age

Known Build Date

Known Build Date

1967

Guidance Applicable At Time Of Construction

Building Regulations 1965 (Still in force in 1967)
Part E – Resistance to the Spread of Fire

Building Height

Approximately 24m to the highest occupied floor level. (calculated at 3m per floor as per PAS 9980-2022 section

3.1.22)

Number of Storeys (Ground and above)

10

Number of Flats

36

Flat Types

Single Storey

Structural Wall Material

Concrete / Brick

Structural Floor Material

Reinforced Concrete

Structural Stairs Material

Concrete

Construction (Details)

Traditional concrete frame and brick construction

Exterior Cladding

FRAEW Completed on Exterior Cladding

Exterior Cladding (Details)

Insulated mineral wool render - Solid aluminium panels - Lockclad tiles - Forticrete Blockwork

Electronic Entrance System

Yes

Carpark

External/Outdoor Carpark

Employees

None

Residents

Yes

Approx number of Residents

72

Residents (Extended)

Assumed to be two residents per flat (Exact numbers not known)

Visitors

Day

Visitors (Extended)

Residential block - low number of visitors expected at any one time

People With Reduced Mobility

None

People with Reduced Mobility (Extended)

General Needs - No information however, General Needs premises so occupants are typical of the general population

Lone Workers

None

Young Persons Employed in the Premises

None

Escapes & Exits

There are sufficient fire exits from the premises of suitable width and within acceptable travel distances. These will allow all persons in the premises to evacuate safely in the event of fire. The final exit door/s opens inwards however this is considered satisfactory as it will be used by less than 60 people due to the 'Stay Put' in place within the building.

Number Of Internal Escape Stairs

2

Number Of Final Exits

2

External Means Of Escape

None Present

Types Of Lifts Installed

Passenger

Evacuation Chairs Installed

No

Refuge Points Present

Yes

Stairwells Protected / Lobbied

Yes

Flat Doors Open Onto Stairs

No

Current Evacuation Strategy

Stay Put

Current Stay Put Strategy Description

The current evacuation strategy is Stay Put as denoted by the fire action notices displayed in the common area.

Current Evacuation Strategy for the property considered appropriate?

Yes

Description

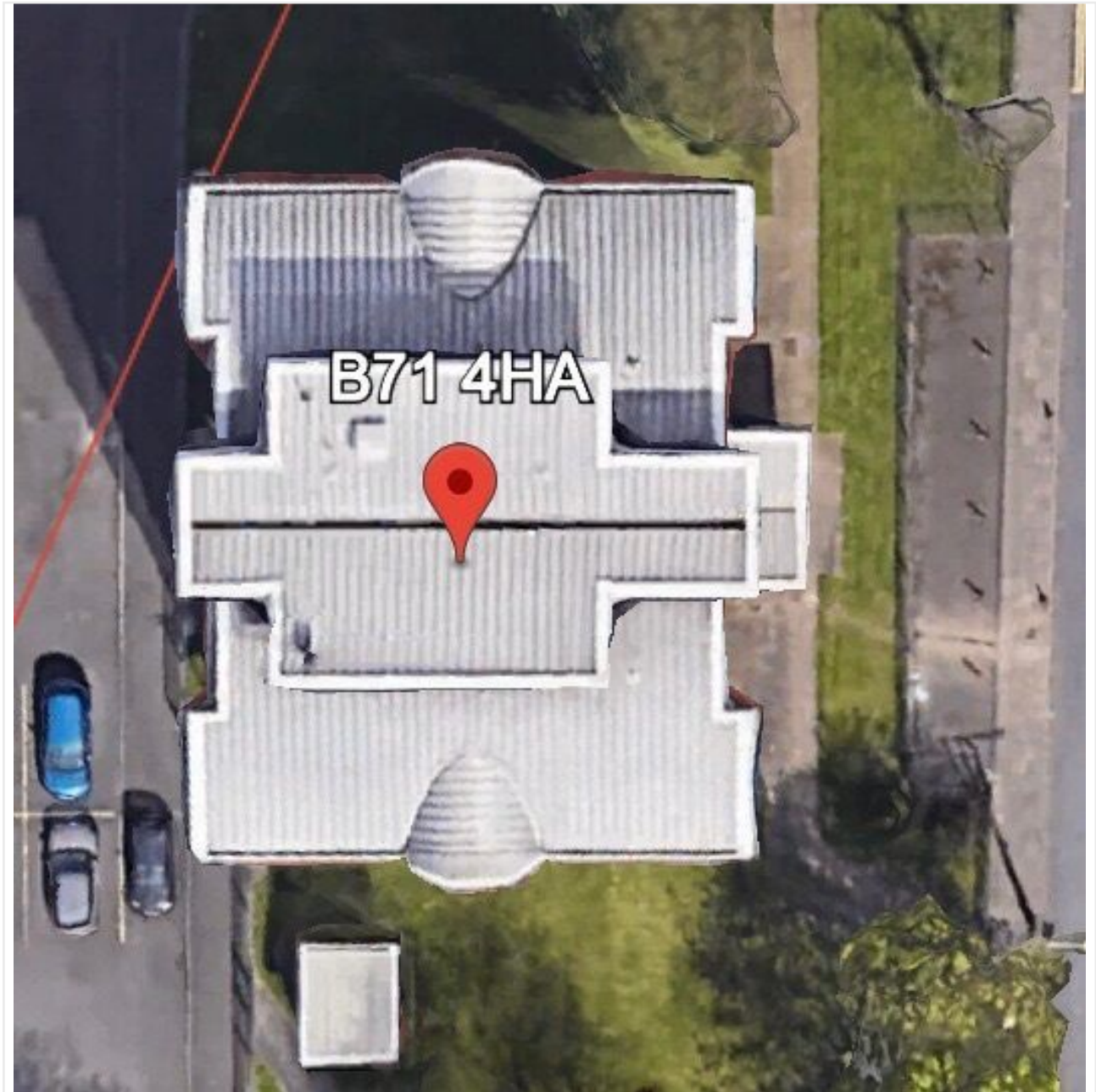
The premises is purpose-built with an adequate standard of compartmentation. The current Stay Put evacuation strategy is considered appropriate.

What is the recommended evacuation strategy for the property?

Stay Put

Aerial Perspective: Wimberger House, Hallam Street, West Brom, B71 4HA

Aerial Perspective (picture sourced from Google Earth)



Elevations

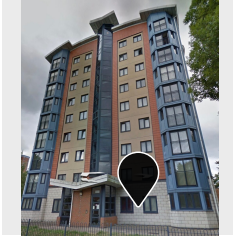
Photo	Name	No. of Storeys
	NORTH	9 Storeys
	EAST	9 Storeys
	SOUTH	9 Storeys
	WEST	9 Storeys

Inspections

Elevation Location

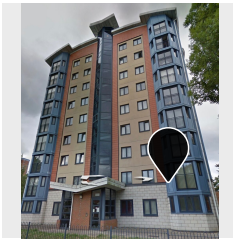
Inspection

Elements



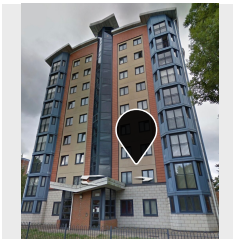
Inspection: 1RFH4K
Wall Inspection
Compartment Wall Junction

- External Surface Material (Masonry blockwork)
- Cavity
- Insulation (Mineral Wool Insulation)
- Inner Leaf (Brickwork)



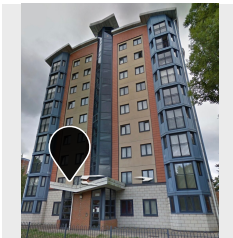
Inspection: 4RUIUE
Wall Inspection
Aperture Opening

- External Surface Material (Aluminium Panel)
- Insulation (Mineral Wool Insulation enclose in foil)
- Cavity
- Inner Leaf (Reinforced concrete)



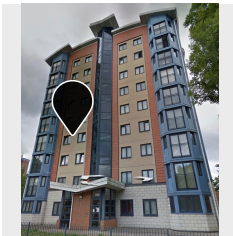
Inspection: UB1FR1
Wall Inspection
Compartment Floor Junction

- External Surface Material (Sto render)
- Outer leaf
- Insulation (Mineral Wool Insulation)
- Inner Leaf (Blockwork)



Inspection: D4B6IJ
Wall Inspection
Compartment Wall Junction

- External Surface Material (Sto render)
- Outer leaf
- Insulation (Mineral Wool Insulation)
- Inner Leaf (Blockwork)



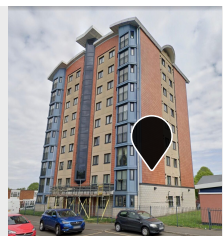
Inspection: SJIKBS
Wall Inspection
Aperture Opening

- External Surface Material (Sto render)
- Outer leaf
- Insulation (Mineral Wool Insulation)
- Inner Leaf (Blockwork)

Elevation Location**Inspection****Elements****Inspection: 781DSZ**

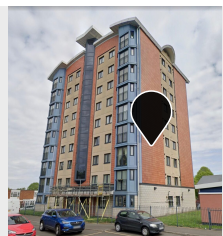
Wall Inspection
Compartment Wall Junction

- External Surface Material (Sto render)
- Outer leaf
- Insulation (Mineral Wool Insulation)
- Inner Leaf (Blockwork)

**Inspection: QAANN9**

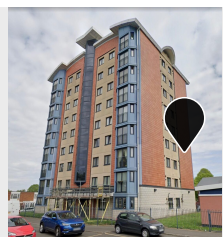
Wall Inspection
Compartment Floor Junction

- External Surface Material (Terracotta tile)
- Framework (Aluminium L/T Rail)
- Cavity
- Insulation (Mineral Wool Insulation)
- Inner Leaf (Brickwork)

**Inspection: P7XF77**

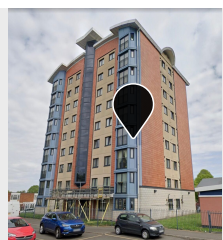
Wall Inspection
Compartment Floor and Wall Junction Interface

- External Surface Material (Terracotta tile)
- Framework (Aluminium L/T Rail)
- Cavity
- Insulation (Mineral Wool Insulation)
- Inner Leaf (Brickwork)

**Inspection: NK4I38**

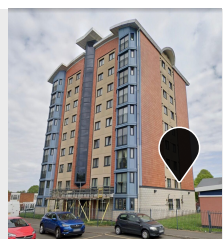
Wall Inspection
Compartment Wall Junction

No elements identified

**Inspection: BPFFVL**

Wall Inspection
Aperture Opening

- External Surface Material (Aluminium Panel)
- Insulation (Mineral Wool Insulation)
- Cavity
- Inner Leaf (Reinforced concrete)

**Inspection: FXCWSX**

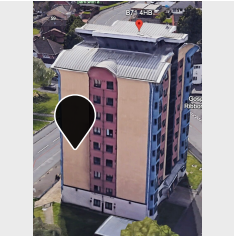
Wall Inspection
Ventilation Outlet

- External Surface Material (Sto render)
- Outer leaf
- Insulation (Mineral Wool Insulation)
- Inner Leaf (Blockwork)

Elevation Location

Inspection

Elements



Inspection: G35J75
Inspection
Compartment Floor and Wall Junction
Interface

No elements identified

Inspection: 1RFH4K

Elevation • Location
Wall Inspection • Compartment Wall Junction



Name/Summary

Masonry blockwork

Proposed Inspection

The purpose of the intrusive survey will consist of the visual and intrusive inspections of the identified systems and attachments to determine the through wall construction.

The Engineer will be looking to determine the:

- a) External Leaf (Identify the material and Euroclass)
- b) Cavities (if a cavity is present and if so the depth and extent)
- c) Insulation (identify the material and Euroclass)
- d) Sheathing Board (the presence of any Sheathing Board)
- e) Membranes (identify their presence and where possible manufacturer)
- f) Substrates (the means in which the façade is attached to the building)
- g) Cavity Barriers (Horizontally, Vertically, Around Openings)

The external inspection is undertaken by either using an approximate 25mm – 150mm bore in a discreet location or the removal of the external surface material. The engineer will then gather the external walls construction from external to internal.

The materials are then measured and observed in there construction along with photographic evidence. Upon completion the removed material is placed back into the opening and sealed to a fire safe condition but will not conduct any decorative repairs.

Build-Up

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
External Surface Material	100mm	Masonry blockwork	5, 6	A1 - Non-Combustible
Cavity	20mm		7, 8	
Insulation	90mm	Mineral Wool Insulation	9, 10	A1 - Non-Combustible
Inner Leaf	102mm	Brickwork	11, 12	A1 - Non-Combustible

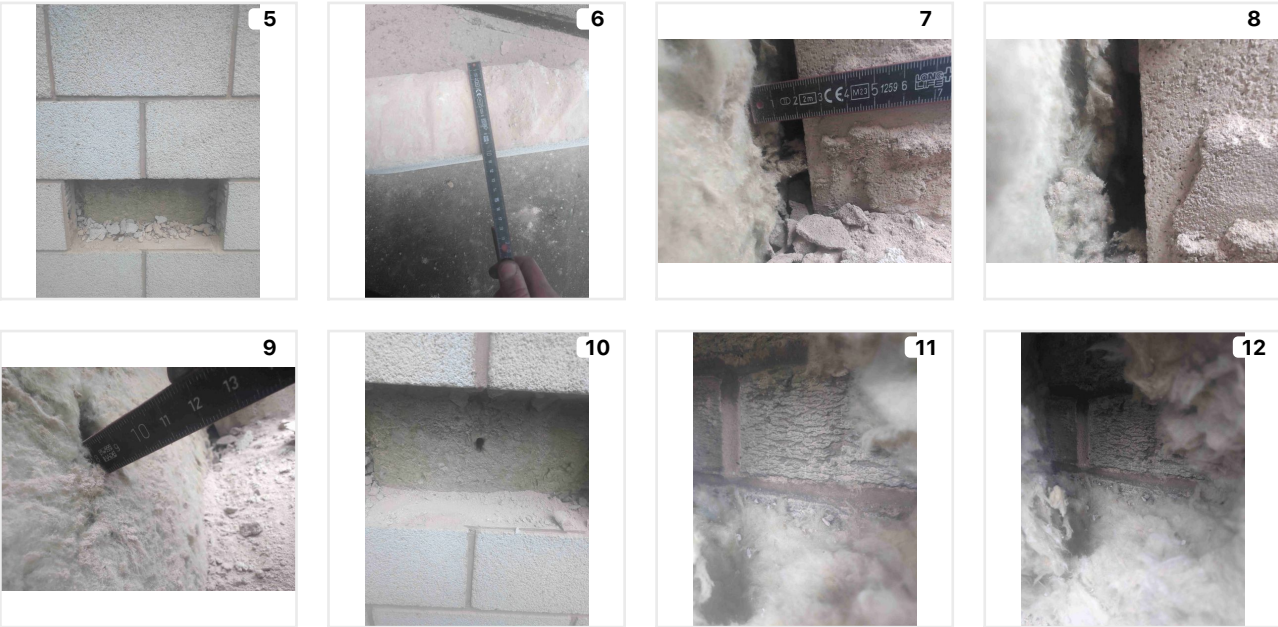
Cavity Barriers

1 Cavity Barrier	Material	Photo Ref.
Horizontal Cavity Barrier	Solid State Mineral Wool	10

Floor Slab

Backing Wall Sits On The Floor Slab

Build-up Photos



Cavity Barrier Photos



Inspection: 4RUIUE

Elevation • Location
Wall Inspection • Aperture Opening



Name/Summary

Rainscreen cladding

Proposed Inspection

The purpose of the intrusive survey will consist of the visual and intrusive inspections of the identified systems and attachments to determine the through wall construction.

The Engineer will be looking to determine the:

- a) External Leaf (Identify the material and Euroclass)
- b) Cavities (if a cavity is present and if so the depth and extent)
- c) Insulation (identify the material and Euroclass)
- d) Sheathing Board (the presence of any Sheathing Board)
- e) Membranes (identify their presence and where possible manufacturer)
- f) Substrates (the means in which the façade is attached to the building)
- g) Cavity Barriers (Horizontally, Vertically, Around Openings)

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Build-Up

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
External Surface Material	3mm	Aluminium Panel	13, 14, 15	A2 - Limited Combustibility
Insulation	100mm	Mineral Wool Insulation enclose in foil	15	A1 - Non-Combustible
Cavity	30mm		16, 17, 18	

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Inner Leaf		Reinforced concrete Material Brand: Concrete wall	19, 20	A1 - Non-Combustible

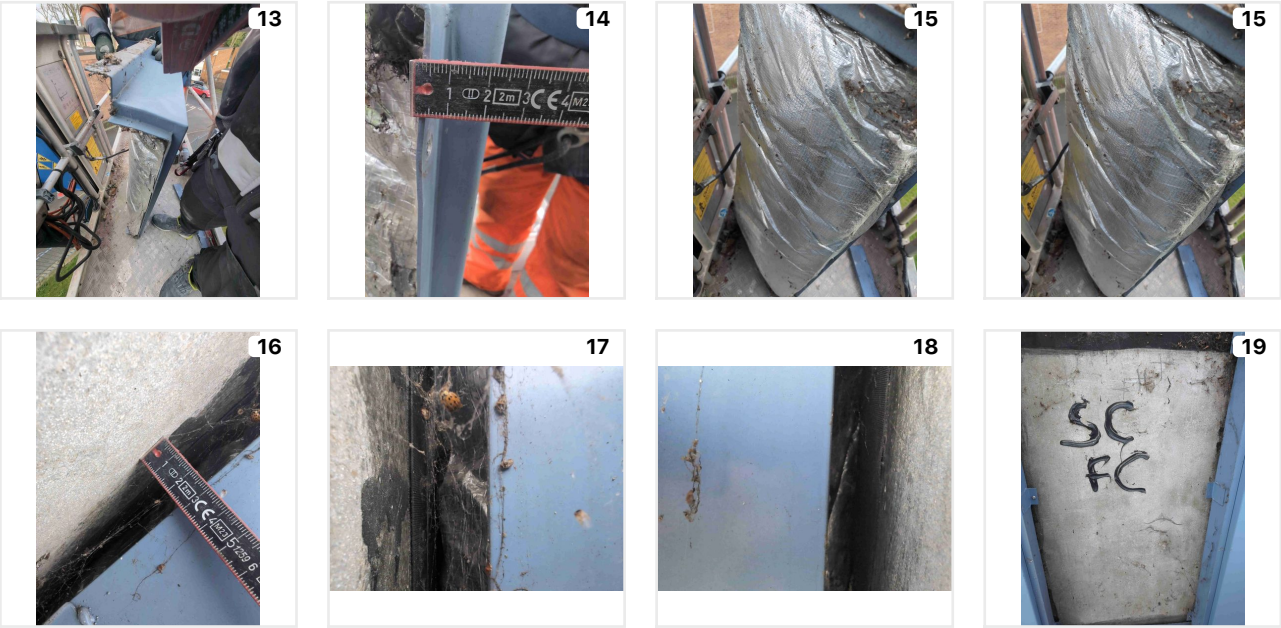
Cavity Barriers

1 Cavity Barrier	Material	Photo Ref.
Window Aperture	Stonewool core, aluminium foil faces	21

Floor Slab

Reinforced concrete

Build-up Photos





Cavity Barrier Photos



Inspection: UB1FR1

Elevation • Location
Wall Inspection • Compartment Floor Junction



Name/Summary

Render section

Proposed Inspection

The purpose of the intrusive survey will consist of the visual and intrusive inspections of the identified systems and attachments to determine the through wall construction.

The Engineer will be looking to determine the:

- a) External Leaf (Identify the material and Euroclass)
- b) Cavities (if a cavity is present and if so the depth and extent)
- c) Insulation (identify the material and Euroclass)
- d) Sheathing Board (the presence of any Sheathing Board)
- e) Membranes (identify their presence and where possible manufacturer)
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Build-Up

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
External Surface Material	5mm	Sto render	22, 23, 24	A1 - Non-Combustible
Outer leaf	5mm		24	A1 - Non-Combustible
Cement dash coat				
Insulation	90mm	Mineral Wool Insulation	25, 26	A1 - Non-Combustible

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Inner Leaf		Blockwork	27, 28	A1 - Non-Combustible

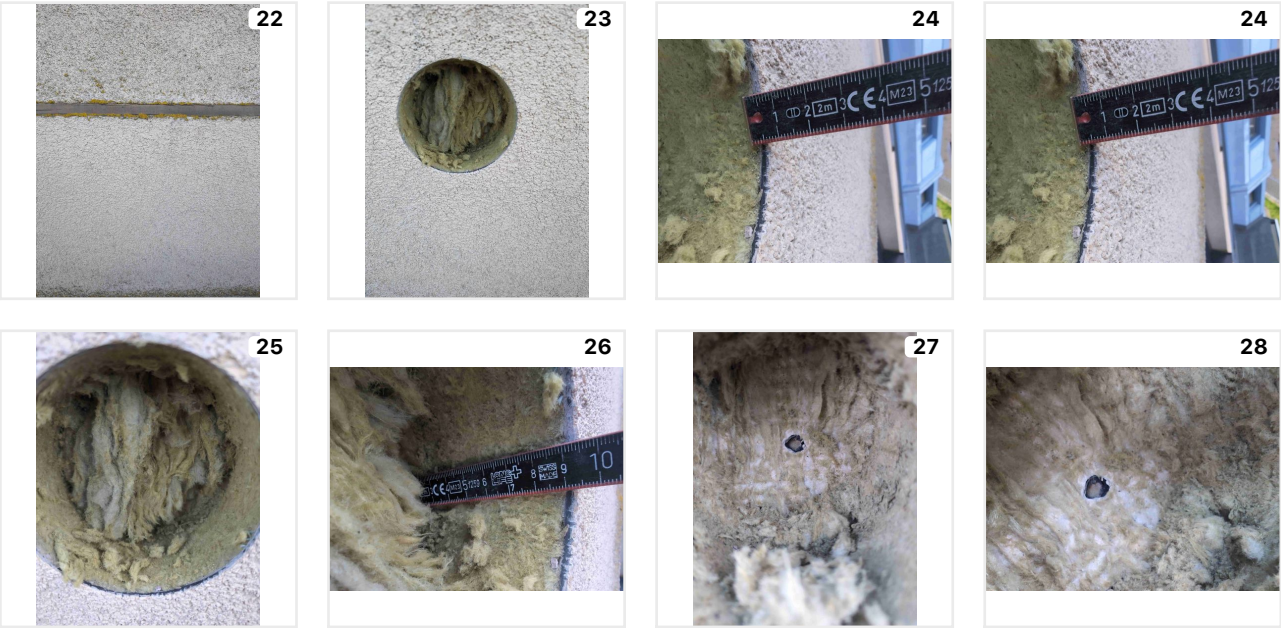
Cavity Barriers

1 Cavity Barrier	Material	Photo Ref.
Horizontal Cavity Barrier	Solid State Mineral Wool	25

Floor Slab

Backing Wall Sits On The Floor Slab

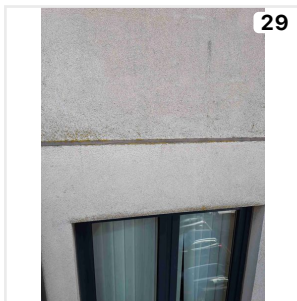
Build-up Photos



Cavity Barrier Photos



Inspection Photos



Inspection: D4B6IJ

Elevation • Location
Wall Inspection • Compartment Wall Junction



Name/Summary

Render section

Proposed Inspection

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- b) Cavities (if a cavity is present and if so the depth and extent)
- c) Insulation (identify the material and Euroclass)
- d) Sheathing Board (the presence of any Sheathing Board)
- e) Membranes (identify their presence and where possible manufacturer)
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Build-Up

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
External Surface Material	5mm	Sto render	30, 31, 32	A1 - Non-Combustible
Outer leaf	5mm		33	A1 - Non-Combustible
Insulation	90mm	Mineral Wool Insulation	34, 35, 36	A1 - Non-Combustible
Inner Leaf		Blockwork	37, 38	A1 - Non-Combustible

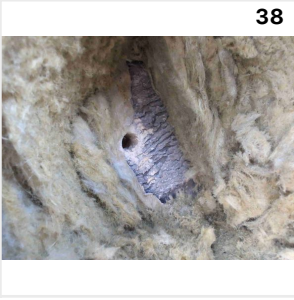
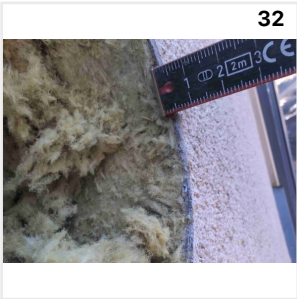
Cavity Barriers

1 Cavity Barrier	Material	Photo Ref.
Horizontal Cavity Barrier	Solid State Mineral Wool	39

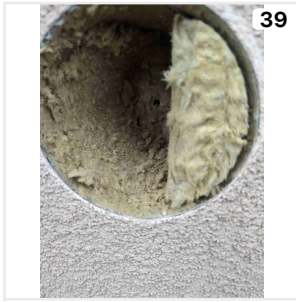
Floor Slab

Backing Wall Sits On The Floor Slab

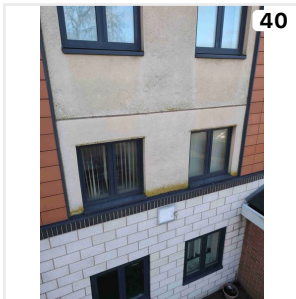
Build-up Photos



Cavity Barrier Photos



Inspection Photos



Inspection: SJKBS

Elevation • Location
Wall Inspection • Aperture Opening



Name/Summary

Render section

Proposed Inspection

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- b) Cavities (if a cavity is present and if so the depth and extent)
- c) Insulation (identify the material and Euroclass)
- d) Sheathing Board (the presence of any Sheathing Board)
- e) Membranes (identify their presence and where possible manufacturer)
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Build-Up

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
External Surface Material	5mm	Sto render	41, 42, 33	A1 - Non-Combustible
Outer leaf	5mm			A1 - Non-Combustible
Cement dash coat				
Insulation	90mm	Mineral Wool Insulation	43, 44	A1 - Non-Combustible

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Inner Leaf		Blockwork	45, 46	A1 - Non-Combustible

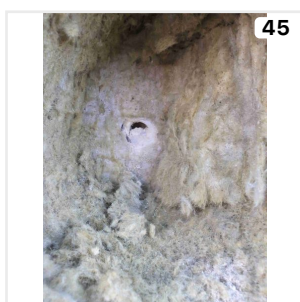
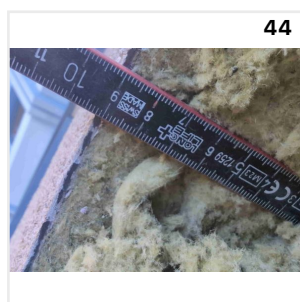
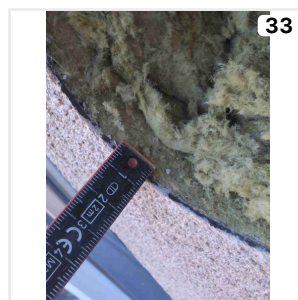
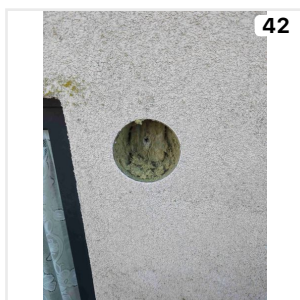
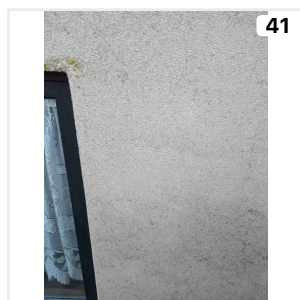
Cavity Barriers

1 Cavity Barrier	Material	Photo Ref.
Window Aperture	Solid State Mineral Wool	46

Floor Slab

Backing Wall Sits On The Floor Slab

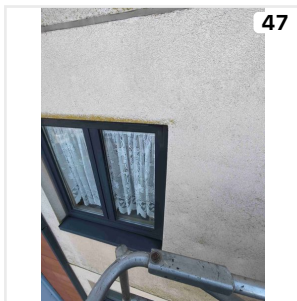
Build-up Photos



Cavity Barrier Photos



Inspection Photos



Inspection: 781DSZ

Elevation • Location
Wall Inspection • Compartment Wall Junction



Name/Summary

Render section

Proposed Inspection

The purpose of the intrusive survey will consist of the visual and intrusive inspections of the identified systems and attachments to determine the through wall construction.

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- a) External Leaf (Identify the material and Euroclass)
- b) Cavities (if a cavity is present and if so the depth and extent)
- c) Insulation (identify the material and Euroclass)
- d) Sheathing Board (the presence of any Sheathing Board)
- e) Membranes (identify their presence and where possible manufacturer)
- f) Substrates (the means in which the façade is attached to the building)
- g) Cavity Barriers (Horizontally, Vertically, Around Openings)

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The materials are then measured and observed in there construction along with photographic evidence. Upon completion the removed material is placed back into the opening and sealed to a fire safe condition but will not conduct any decorative repairs.

Build-Up

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
External Surface Material	5mm	Sto render	48, 49, 50	A1 - Non-Combustible
Outer leaf	5mm		26	A1 - Non-Combustible
Cement dash coat				
Insulation	90mm	Mineral Wool Insulation	39, 51	A1 - Non-Combustible

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Inner Leaf		Blockwork	52, 53	A1 - Non-Combustible

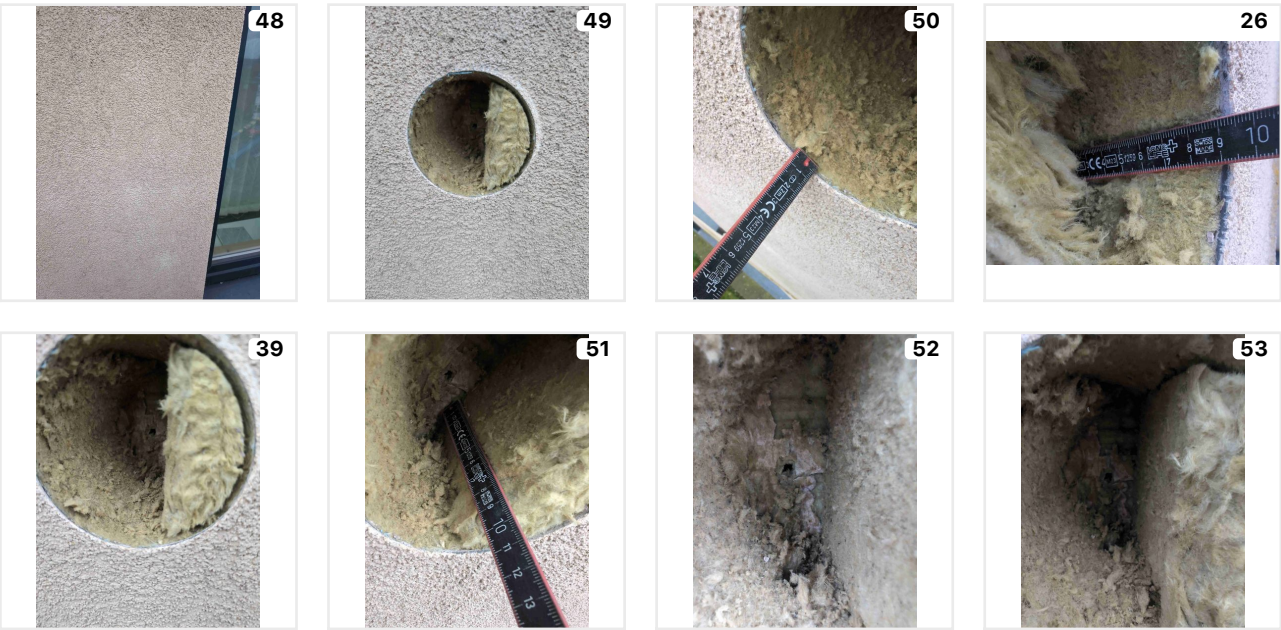
Cavity Barriers

1 Cavity Barrier	Material	Photo Ref.
Horizontal Cavity Barrier	Solid State Mineral Wool	54

Floor Slab

Backing Wall Sits On The Floor Slab

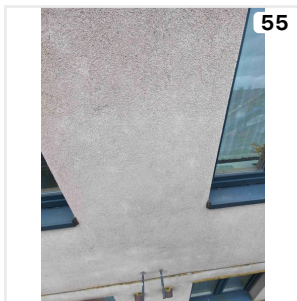
Build-up Photos



Cavity Barrier Photos



Inspection Photos



Inspection: QAANN9

Elevation • Location
Wall Inspection • Compartment Floor Junction



Name/Summary

Rainscreen cladding (Tiled section)

Description

Done on other side of the building due to access with mewt

Build-Up

5 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
External Surface Material	15mm	Terracotta tile	56, 57	A1 - Non-Combustible
Framework		Aluminium L/T Rail	58	A2 - Limited Combustibility
Cavity	80mm		59, 60, 61, 62	
Insulation	110mm	Mineral Wool Insulation	63, 64	A1 - Non-Combustible
Inner Leaf		Brickwork	65, 66	A1 - Non-Combustible

Cavity Barriers

1 Cavity Barrier	Material	Photo Ref.
Horizontal Cavity Barrier	Stonewool core, aluminium foil faces	58

Floor Slab

Backing Wall Sits On The Floor Slab

Build-up Photos



Cavity Barrier Photos



Inspection Photos



Inspection: P7XF77

Elevation • Location
Wall Inspection • Compartment Floor and Wall Junction Interface



Name/Summary

Rainscreen cladding (Tiled section)

Proposed Inspection

The purpose of the intrusive survey will consist of the visual and intrusive inspections of the identified systems and attachments to determine the through wall construction.

The Engineer will be looking to determine the:

- a) External Leaf (Identify the material and Euroclass)
- b) Cavities (if a cavity is present and if so the depth and extent)
- c) Insulation (identify the material and Euroclass)
- d) Sheathing Board (the presence of any Sheathing Board)
- e) Membranes (identify their presence and where possible manufacturer)
- f) Substrates (the means in which the façade is attached to the building)
- g) Cavity Barriers (Horizontally, Vertically, Around Openings)

The external inspection is undertaken by either using an approximate 25mm – 150mm bore in a discreet location or the removal of the external surface material. The engineer will then gather the external walls construction from external to internal.

The materials are then measured and observed in there construction along with photographic evidence. Upon completion the removed material is placed back into the opening and sealed to a fire safe condition but will not conduct any decorative repairs.

Build-Up

5 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
External Surface Material	15mm	Terracotta tile	69, 70	A1 - Non-Combustible
Framework		Aluminium L/T Rail		A2 - Limited Combustibility
Cavity	90mm		71, 72, 73	
Insulation	90mm	Mineral Wool Insulation	58, 74, 75	A1 - Non-Combustible

5 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Inner Leaf		Brickwork	76, 77	

Cavity Barriers

1 Cavity Barrier	Material	Photo Ref.
Horizontal Cavity Barrier	Stonewool core, aluminium foil faces	

Build-up Photos



Inspection Photos



Inspection: NK4I38

Elevation • Location
Wall Inspection • Compartment Wall Junction



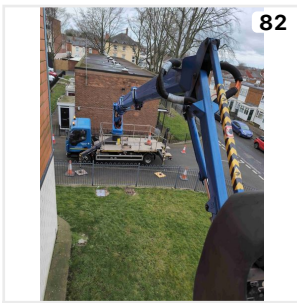
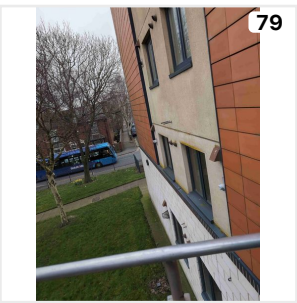
Name/Summary

Rainscreen

Description

Unable to reach mewt on max reach

Inspection Photos



Inspection: BPFFVL

Elevation • Location
Wall Inspection • Aperture Opening



Name/Summary

Rainscreen cladding

Proposed Inspection

The purpose of the intrusive survey will consist of the visual and intrusive inspections of the identified systems and attachments to determine the through wall construction.

The Engineer will be looking to determine the:

- a) External Leaf (Identify the material and Euroclass)
- b) Cavities (if a cavity is present and if so the depth and extent)
- c) Insulation (identify the material and Euroclass)
- d) Sheathing Board (the presence of any Sheathing Board)
- e) Membranes (identify their presence and where possible manufacturer)
- f) Substrates (the means in which the façade is attached to the building)
- g) Cavity Barriers (Horizontally, Vertically, Around Openings)

The external inspection is undertaken by either using an approximate 25mm – 150mm bore in a discreet location or the removal of the external surface material. The engineer will then gather the external walls construction from external to internal.

The materials are then measured and observed in there construction along with photographic evidence. Upon completion the removed material is placed back into the opening and sealed to a fire safe condition but will not conduct any decorative repairs.

Build-Up

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
External Surface Material	3mm	Aluminium Panel	85, 21, 86	A2 - Limited Combustibility
Insulation		Mineral Wool Insulation	15	A1 - Non-Combustible
Cavity	25mm		87, 88	
Inner Leaf		Reinforced concrete	89	A1 - Non-Combustible

Cavity Barriers

1 Cavity Barrier	Material	Photo Ref.
Window Aperture	Stonewool core, aluminium foil faces	

Build-up Photos



Inspection Photos



Inspection: FXCWSX

Elevation • Location
Wall Inspection • Ventilation Outlet



Name/Summary

Render section

Proposed Inspection

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Build-Up

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
External Surface Material	5mm	Sto render	91, 92	A1 - Non-Combustible
Outer leaf	5mm			A1 - Non-Combustible
Cement dash coat				
Insulation	90mm	Mineral Wool Insulation	93, 94	A1 - Non-Combustible

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Inner Leaf		Blockwork	95, 96	A1 - Non-Combustible

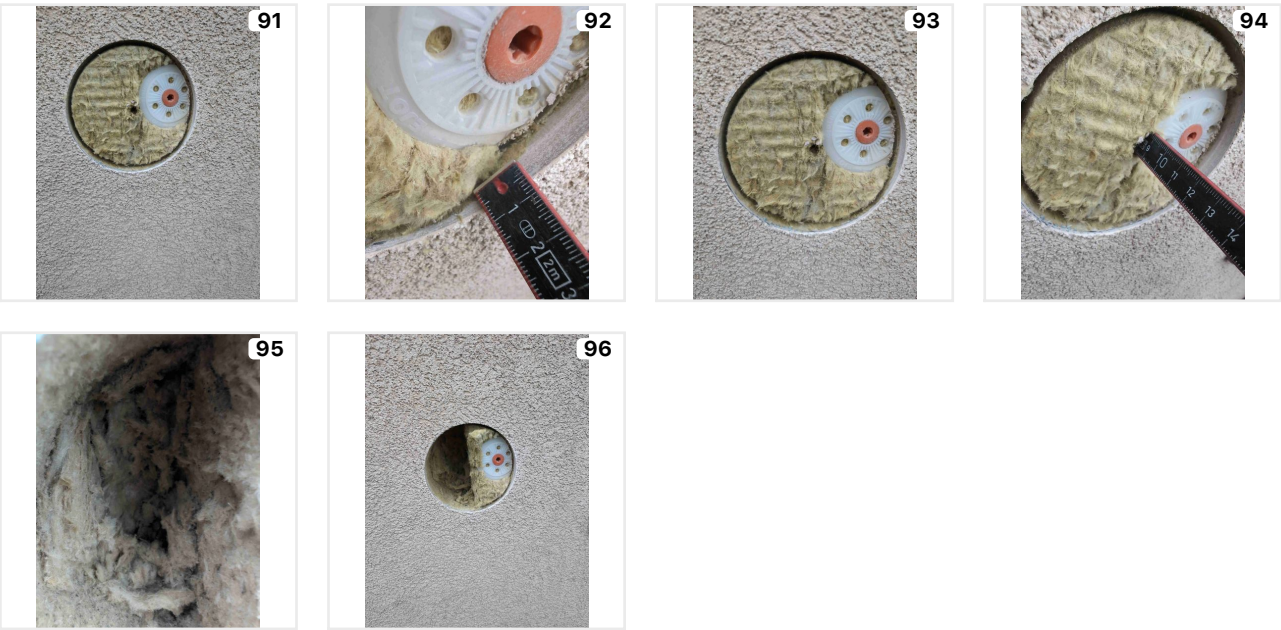
Cavity Barriers

1 Cavity Barrier	Material	Photo Ref.
Horizontal Cavity Barrier	Solid State Mineral Wool	

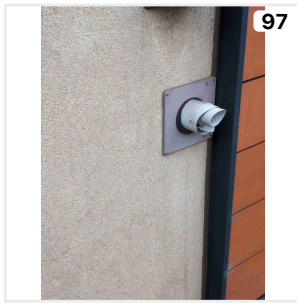
Floor Slab

Backing Wall Sits On The Floor Slab

Build-up Photos



Inspection Photos



Inspection: G35J75

Elevation • Location
Inspection • Compartment Floor and Wall Junction Interface



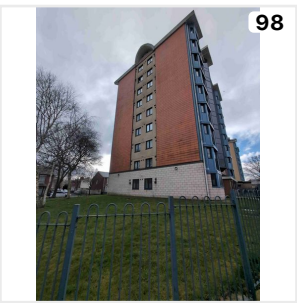
Name/Summary

Rainscreen

Description

Unable to reach with mewt, to high for ladders

Inspection Photos



Attachments & Balconies

Photo

Attachment



Juliet Balcony (IY2WUR)

Configuration: Single Unit

Size: Private balcony spanning only a single compartment

Attachment: Juliet Balcony

Attachment Reference
IY2WUR

Details

Configuration

Single Unit

Size

Private balcony spanning only a single compartment

Framework/Structure

Steel framed

L6 Benchmark

Balconies -

Balconies are defined in BS 8579. However, for the purpose of this PAS and the manner in which balconies impact external fire behaviour, balconies fall into one of three categories:

- a) Those which fall entirely within the curtilage of the building structure (i.e. they are built on the slab and appear inset into the building when observed from outside). They might be enclosed to an extent and might effectively be made fully enclosed (sometimes referred to as a "winter garden"). The extent of enclosure needs to be considered in light of whether, from a fire perspective, the space can be treated as part of the outside or whether it is in effect a compartment (i.e. subject to compartment fire behaviour);
- b) Those which project beyond the main building structure but do so on an extension of the floor slab. They provide an advantage in that their construction matches that of the compartment floor within the building, and can deflect fire/smoke plumes away from the building; and
- c) Those which project beyond the main building structure and are fixed to the outside face of the building. They can only be of lightweight construction; their construction needs to be assessed based upon the combustibility and fire resistance of any materials used.

Regardless of balcony type, the materials used to line the balconies (including soffits) need to be assessed in light of their likely contribution to external fire spread.

Storage of materials and other uses by residents also need to be taken into account.

Any bulk storage can pose a significant hazard, as can the use of combustion appliances such as barbecues and heaters.

Aside from the above, means of escape external walkways (a form of balcony) are not within the scope of this PAS, as any risk associated with these would need to be considered as part of the overarching FRA.

Fire Engineer Comments

These Juliet style balconies are constructed using primarily non-combustible materials. They have no decking and are not of a size that would facilitate the storage of furniture or combustible appliances such as barbeques. As a result these attachments present a Low Risk and will not enable or contribute to fire spread across the external surface of the building.

Positive

Photos



External Windows

Photo

External Window



Top, Mid, Side Hung Casements (ST23HW)

External Window: Top, Mid, Side Hung Casements

External Window Reference
ST23HW

Details

Surface Material

Aluminium

Frame Material

Timber

Infill / Panel Material

Toughened Safety Glass

Photos



External Doors

Photo

External Door



French Doors (3DV1M6)

External Door: French Doors

External Door Reference
3DV1M6

Details

Surface Material

Timber

Infill / Panel Material

Toughened Glass

Frame Material

Timber

Details

balcony doors

Photos



Plan: Wall Inspection



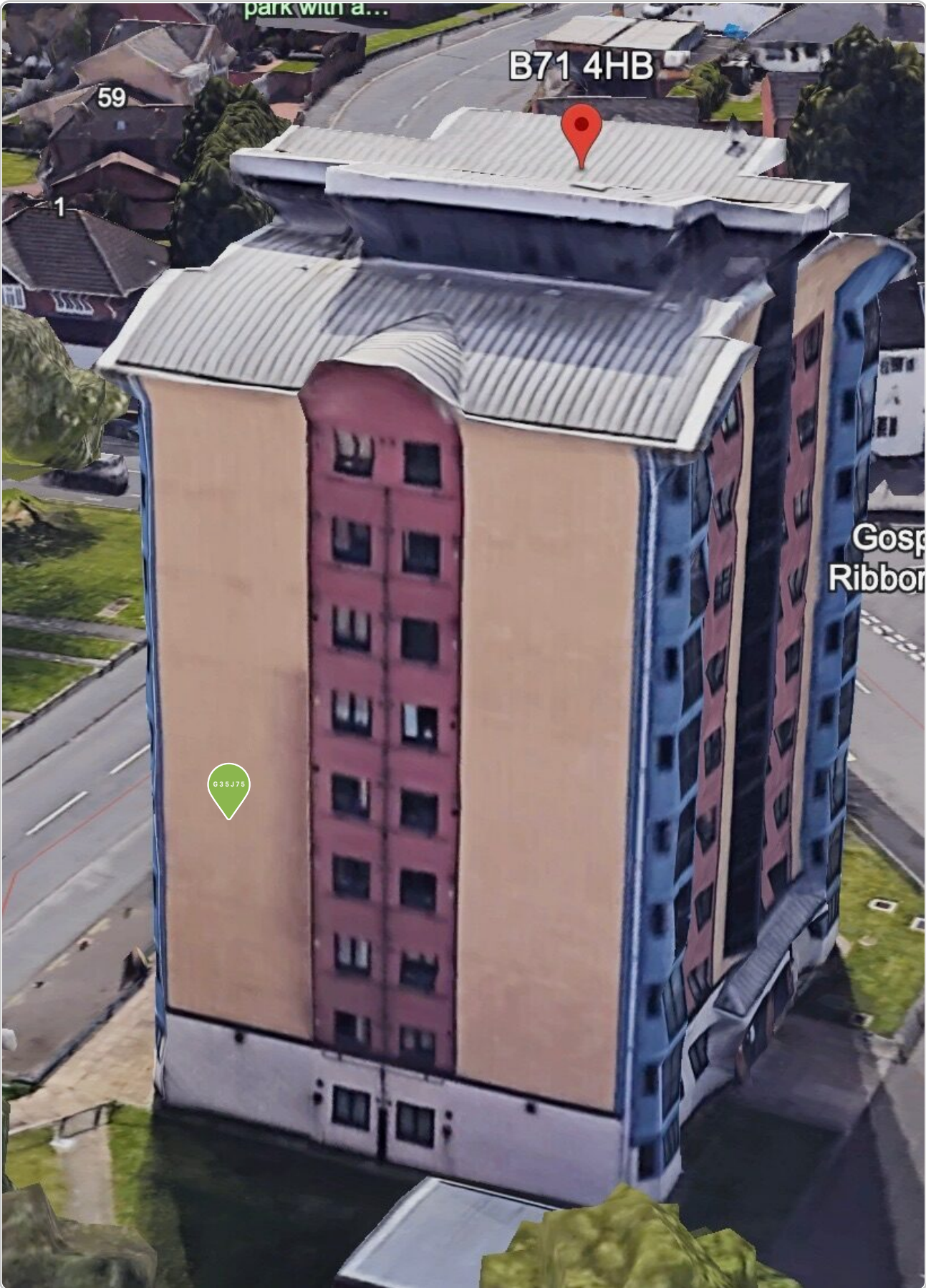
Plan: Wall Inspection



Plan: Wall Inspection



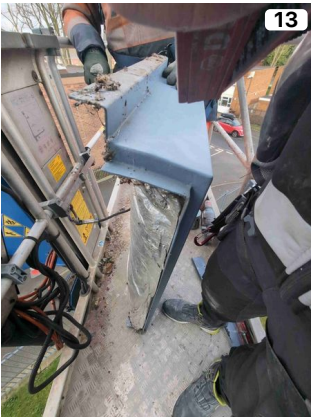
Plan: Inspection



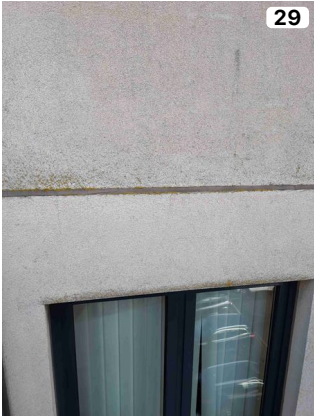
Photos



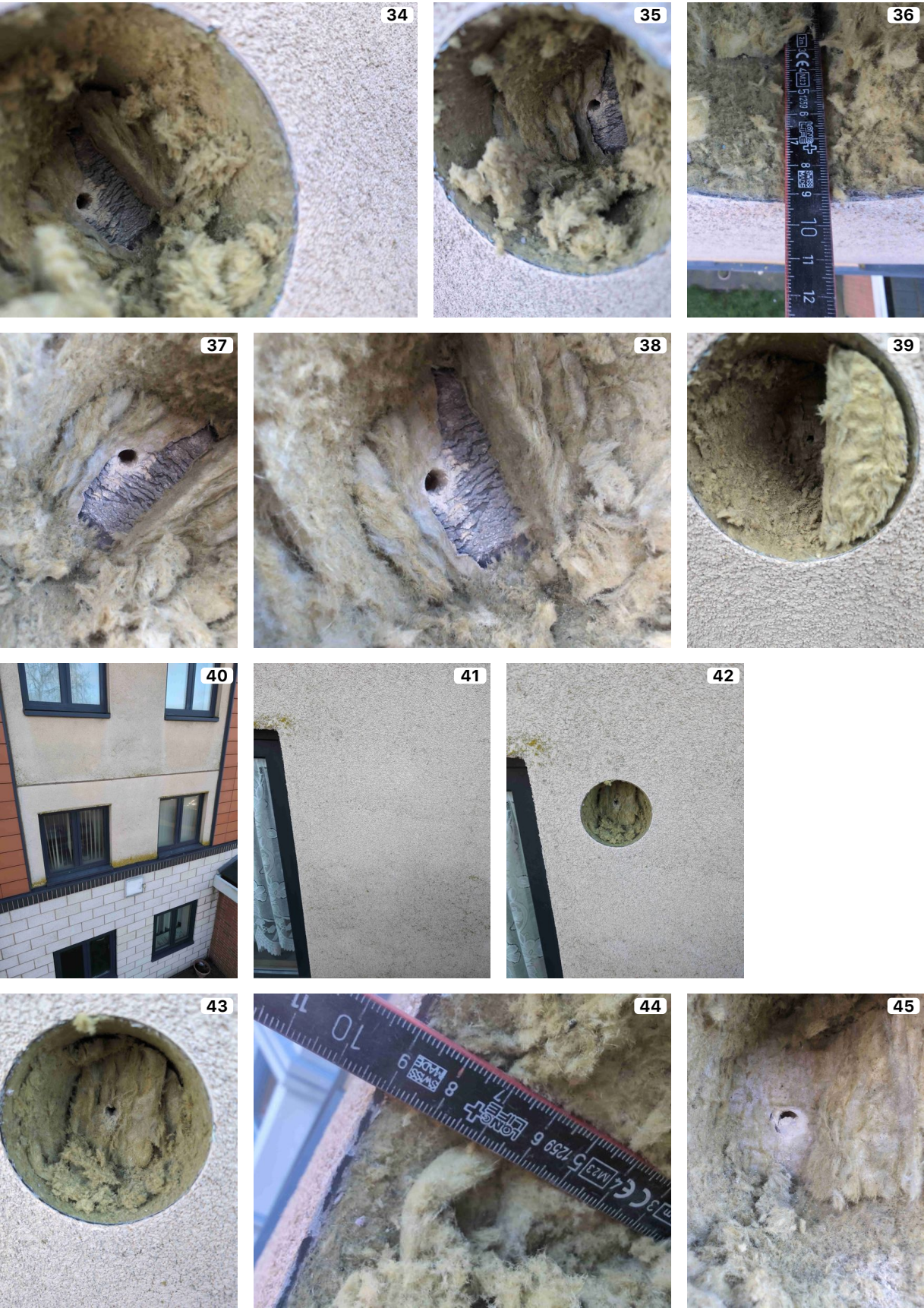
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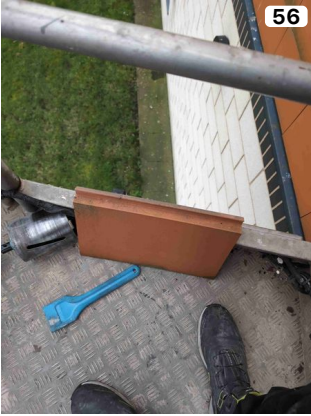
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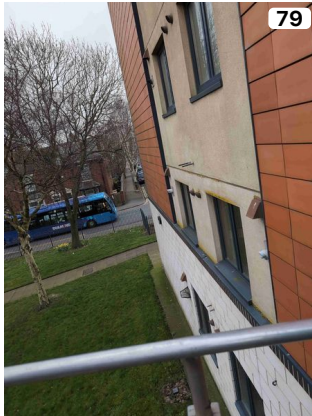
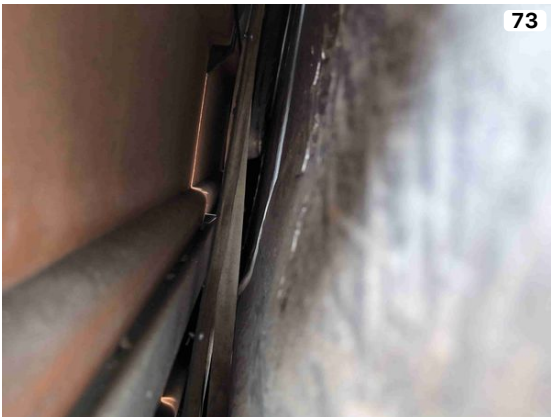
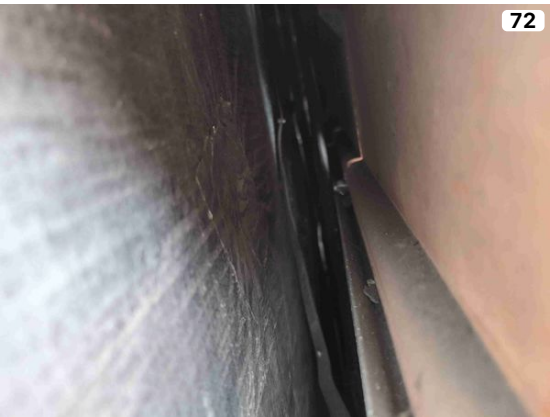
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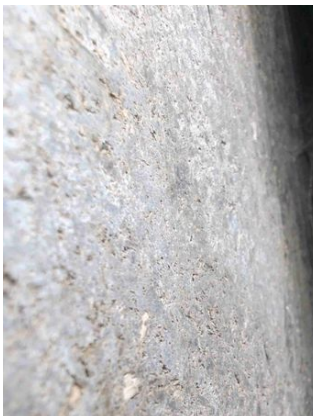
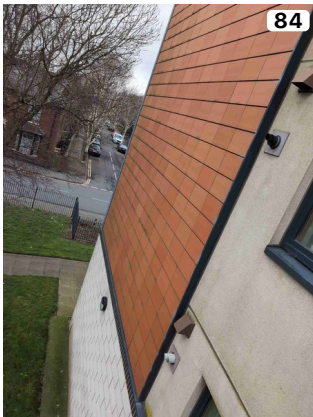
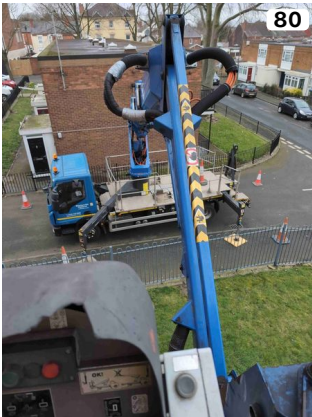
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