



FIRNTEC
BUILDING COMPLIANCE

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

Document Version 4
Survey Date 20/02/2025
Suggested Review Date 20/02/2030

EXTERNAL WALL SURVEY

WYNDMILL CRESCENT

51-121 Wyndmill Crescent
West Brom
West Midlands
B71 3QZ

Table of Contents

Cover Page	1
Table of Contents	2
Summary	3
Abbreviation/ Term Definition	4
Terms of Reference	5
Asset Information	7
Aerial Perspective: WYNDMILL CRESCENT	12
Elevations	13
Inspections	14
Inspection: L9V1L6	16
Inspection: XQ1WFL	18
Inspection: PIAD94	20
Inspection: QYRD3D	22
Inspection: TJ8BWH	24
Inspection: HTH9JA	26
Inspection: LBJM3B	28
Attachments & Balconies	30
Attachment: Inset Balcony (YEQ99G)	31
External Windows	32
External Window: Top, Mid, Side Hung Casements (MXNFMK)	33
Plans & Elevations	34
Photos	36

Summary

External Wall Survey

Assessment and Certificate Reference

RB-EKNGUZ

Assessed On, By

20/02/2025, Haydn Roberts

Recommended Review Date

20/02/2030

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

Wyndmill Crescent

Property Reference

RB-TC2H4W

Address

51-121 Wyndmill Crescent

West Brom

West Midlands

B71 3QZ

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
- **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
- **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
- **SFS** Steel Framing System
- **SIB** Secure Information Box # Overview

Terms of Reference

Overview

Firntec have been instructed by the client to undertake an intrusive inspection of the external walls, attachments, windows and doors to the appointed building as addressed on the cover page.

The purpose of the report is to identify the construction, make-up and materials used within each external wall type and attachment on the building as required under the Fire Safety Act 2021.

Scope of Works

The client has requested Firntec to undertake an intrusive inspection of the external walls, attachments, windows and doors.

The purpose of this survey report is to assess the external walls and attachments construction to identify the materials used, installation method, presence of any cavity barriers or fire stopping and the configuration on the building.

For any identified materials within the construction of the sample, a euro-classification rating in accordance with BS EN 13501-1 will be assigned where applicable.

Within the findings of each wall type and attachment, where applicable, detailed comments will be provided on the findings, with reference to quality of workmanship or other identified factors within the construction.

The intent of the report is not to assign any level of risk, conclusion or recommendations, but should it be identified during the intrusive investigation that there is an immediate risk to life safety, interim measures may be recommended.

Limitations

The inspection of any external wall types or attachments are undertaken by the defined terms as described in Approved Document B:

- External Wall: Includes all of the following.
 - Anything located within any space forming part of the wall.
 - Any decoration or other finish applied to any external (but not internal) surface forming part of the wall.
 - Any windows and doors in the wall.
 - Any part of a roof pitched at an angle of more than 70 degrees to the horizontal if that part of the roof adjoins a space within the building to which persons have access, but not access only for the purpose of carrying out repairs or maintenance
- Specific Attachment Includes any of the following.
 - A balcony attached to an external wall.
 - A device for reducing heat gain within a building by deflecting sunlight which is attached to an external wall.
 - A solar panel attached to an external wall.

The findings within the report will not state any areas of compliance with advisory sub-clauses of the relevant Approved Document B, nor does it aim to guarantee compliance with the mandatory clause of B4(1) and our comments cannot be interpreted as such.

We endeavour to undertake intrusive inspections at various elevations and varying heights, however, this may not always be achievable due to mitigating factors out of our control such as access or weather conditions.

The findings of the investigation are limited to each precise inspection location and cannot be used to confirm absolute consistency of the façade in its entirety.

The manufacturer of a product cannot be confirmed with absolute certainty unless the sampled materials carry the product branding inclusive of the product number.

Where product branding is absent or ambiguous, we will where provided, refer to as-built drawings and

specification contained in the O&M manuals, However, this does not guarantee or confirm the products used in construction.

Assumptions

It is understood that the absence of evidence, is not evidence of the absence; therefore, Where a products branding is absent we will use our professional engineering judgment, and any assumptions made with regards to the materials combustibility should be submitted for further testing to verify this.

It has been assumed that documentation regarding the buildings fire safety, fire strategy, construction details and O&M manuals have been provided for our reference within the report.

Outcomes

The findings within this report do not assign any level of risk, conclusion or recommendations, nor does it confirm any compliance with applicable building regulations at the time of construction.

The findings of this report may form part of the gathered information to form such reports as:

- PAS9980:2022 Fire risk appraisal of external wall construction and cladding of existing blocks of flats – Code of practice or;
- External Wall Compliance at Time of Construction Report.

If during the intrusive survey any ACM is identified to be present, this will be reflected within the report and evidence requested to determine its calorific value, if this evidence is not available a request of sample testing may be recommended separate to this report.

Asset Information

Client Name

Sandwell Metropolitan Council

Responsible Person

Sandwell Metropolitan Council

Contact Details

0121 569 0162 - Lisa Ellis

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. As per the building's FRA there is a master reset switch located within the main entrance lobby.

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 staff only / Restricted areas of the building

Portable Fire Fighting Equipment

Extinguisher equipment is installed within staff only / Restricted access areas of the building.

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

Public fire hydrant is available, located in close proximity to the front of the building, as detailed in the On Arrival Information.

Public fire hydrants can be located: <https://dataservices.riscauthority.co.uk/map/index>

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

1963

Guidance Applicable At Time Of Construction

CP3: Chapter IV: Part 1 (1962)

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)

9

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)

Structherm insulated mineral wool render (A2), Moedling tiles (A1), Brick

Electronic Entrance System

Yes

Carpark

External/Outdoor Carpark

Employees

Day staff

Employees (Extended)

No staff on site (Occasional staff attendance expected - low numbers anticipated)

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. Emergency exits open outwards in escape direction.

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

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: WYNDMILL CRESCENT

Aerial Perspective (picture sourced from Google Earth)



Elevations

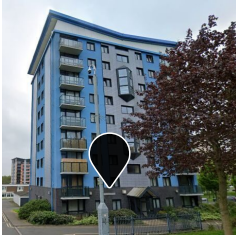
Photo	Name	No. of Storeys	Features
	NORTH	10 Storeys	
	SOUTH	10 Storeys	
	EAST	10 Storeys	• Private Balconies Stacked
	WEST	10 Storeys	• Private Balconies Stacked

Inspections

Elevation Location

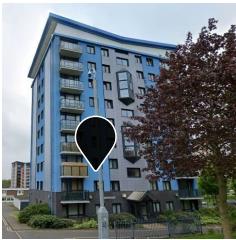
Inspection

Elements



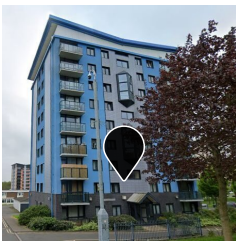
Inspection: L9V1L6
EAST
FLOOR SLAB TO FIRST FLOOR

- Surface Finish (Brick masonry)
- Cavity
- Insulation (Mineral Wool Insulation)
- Inner Leaf Support (Backing Wall) (Concrete brickwork)



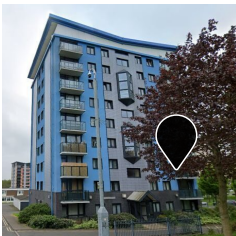
Inspection: XQ1WFL
EAST
JUNCTION WITH OTHER FACADE TYPES

- Surface Finish (Sto render)
- Insulation (Mineral Wool Insulation)
- Inner Leaf Support (Backing Wall) (Concrete wall)



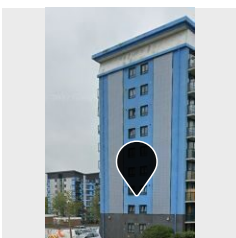
Inspection: PIAD94
EAST
JUNCTION WITH OTHER FACADE TYPES

- Surface Finish (Stone tile)
- Breather Membrane
- Cavity
- Insulation (Mineral Wool Insulation)
- Inner Leaf Support (Backing Wall) (Concrete wall)



Inspection: QYRD3D
EAST
SECTION TO STAIRWELL

- Surface Finish (Stone tile)
- Breather Membrane
- Cavity
- Insulation (Mineral Wool Insulation)
- Inner Leaf Support (Backing Wall) (Brickwork masonry)



Inspection: TJ8BWH
NORTH
JUNCTION - VERTICAL AND HORIZONTAL COMPARTMENT

- Surface Finish (Sto render)
- Insulation (Mineral Wool Insulation)
- Inner Leaf Support (Backing Wall) (Concrete wall)

Elevation Location	Inspection	Elements
	Inspection: HTH9JA EAST JUNCTION WITH OTHER FACADE TYPES	• Surface Finish (Stone tile) • Breather Membrane • Cavity • Insulation (Mineral Wool Insulation) • Inner Leaf Support (Backing Wall) (Original blockwork)
	Inspection: LBJM3B Concrete wall	• Surface Finish (Plasterboard) • Other (Plywood board) • Cavity • Insulation (Mineral Wool Insulation) • Inner Leaf Support (Backing Wall) (Concrete wall)

Inspection: L9V1L6

Elevation • Location
EAST • FLOOR SLAB TO FIRST FLOOR



Name/Summary

BRICKWORK - EAST ELEVATION

Build-Up

4 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Surface Finish	100mm	Brick masonry	5, 6	A1 - Non-Combustible
Cavity	30mm		7, 8	
Insulation	90mm	Mineral Wool Insulation	9, 10	A1 - Non-Combustible
Inner Leaf Support (Backing Wall)		Concrete brickwork	11, 12	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: XQ1WFL

Elevation • Location
EAST • JUNCTION WITH OTHER FACADE TYPES



Name/Summary

RENDER SYSTEM - EAST ELEVATION

Build-Up

3 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Surface Finish	9mm	Sto render	13, 14	A1 - Non-Combustible
Insulation	90mm	Mineral Wool Insulation	15, 16	A1 - Non-Combustible
Inner Leaf Support (Backing Wall)		Concrete wall	17, 18	A1 - Non-Combustible

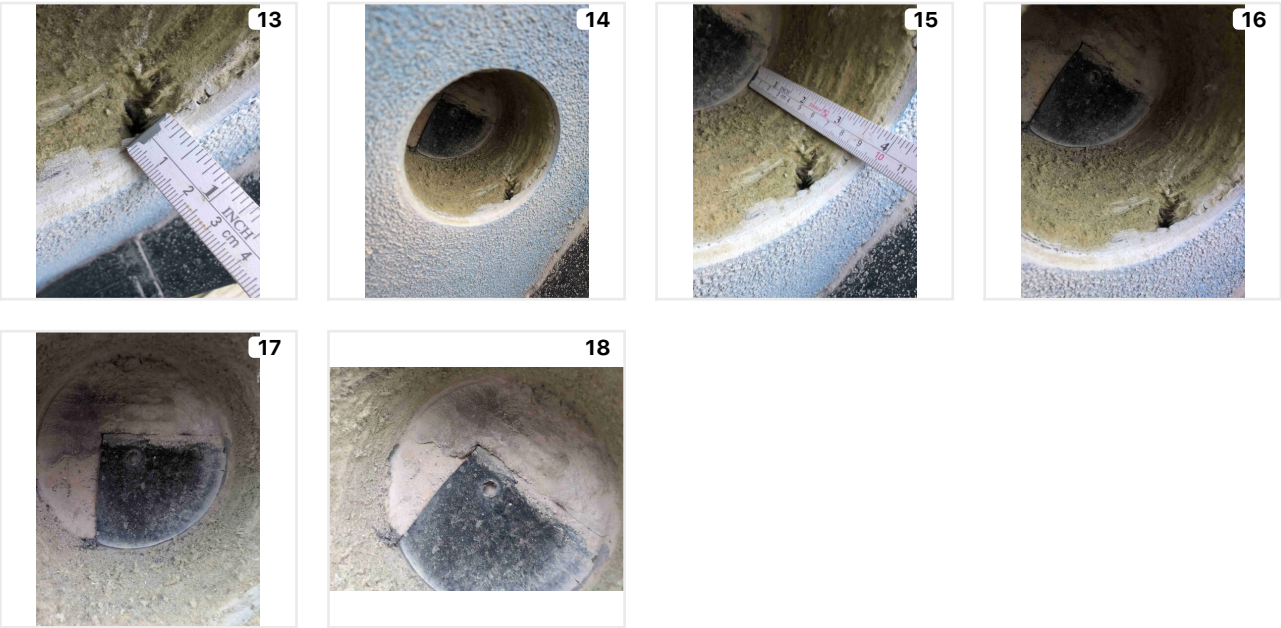
Cavity Barriers

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

Floor Slab

Reinforced concrete

Build-up Photos



Inspection: PIAD94

Elevation • Location
EAST • JUNCTION WITH OTHER FACADE TYPES



Name/Summary

PANEL SYSTEM - EAST ELEVATION

Build-Up

5 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Surface Finish	20mm	Stone tile	19, 20	A1 - Non-Combustible
Breather Membrane	1mm		21, 22	E - Highly Combustible
Cavity	30mm		23, 24, 25	
Insulation	90mm	Mineral Wool Insulation	26, 27	A1 - Non-Combustible
Inner Leaf Support (Backing Wall)		Concrete wall	28, 29	A1 - Non-Combustible

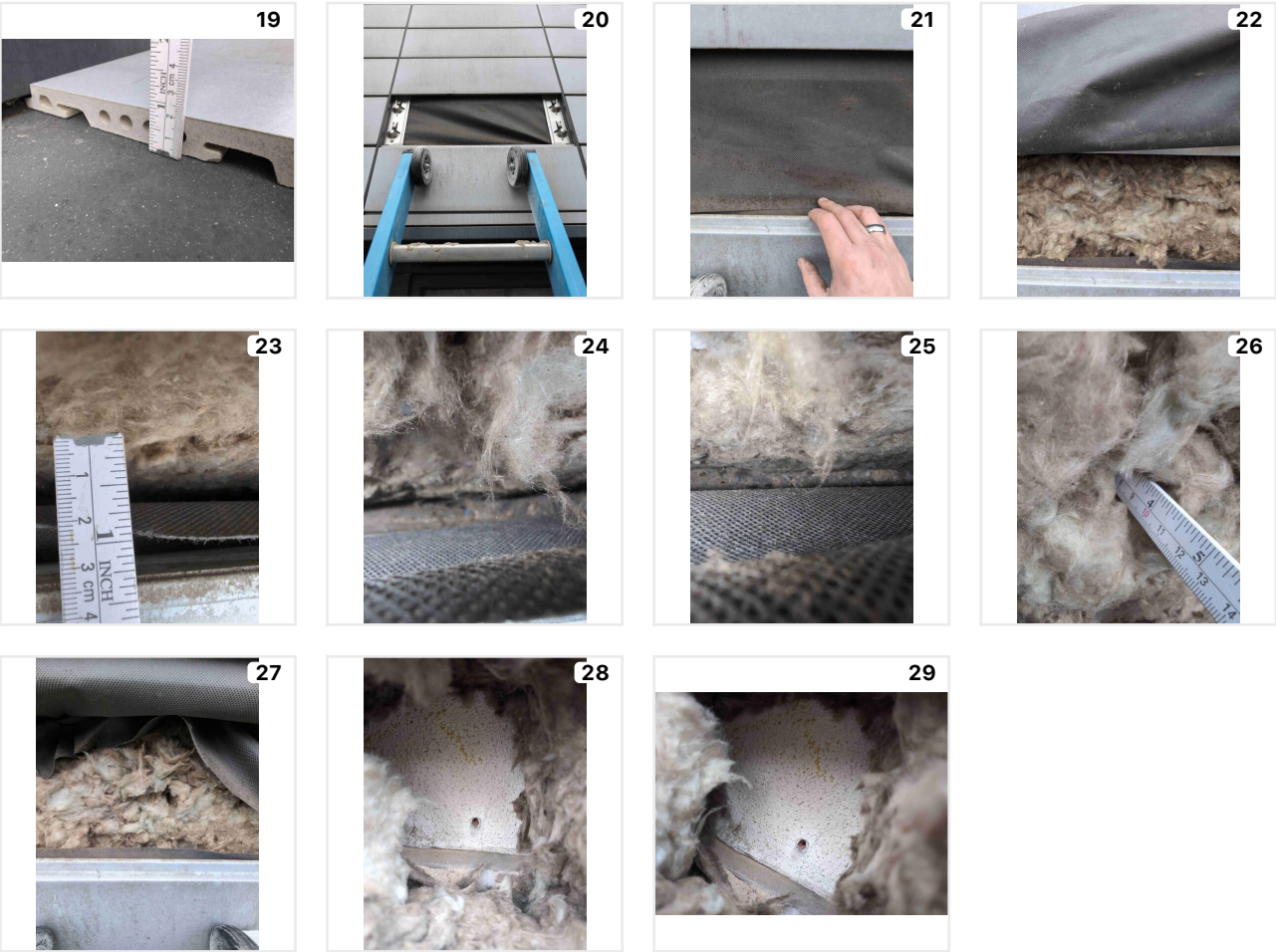
Cavity Barriers

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

Floor Slab

Reinforced concrete

Build-up Photos



Inspection: QYRD3D

Elevation • Location
EAST • SECTION TO STAIRWELL



Name/Summary

PANEL SYSTEM - EAST ELEVATION

Build-Up

5 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Surface Finish	20mm	Stone tile	30, 31	A1 - Non-Combustible
Breather Membrane	1mm		32, 33	E - Highly Combustible
Cavity	60mm		34, 35, 36	
Insulation	90mm	Mineral Wool Insulation	37, 38	A1 - Non-Combustible
Inner Leaf Support (Backing Wall)		Brickwork masonry	39, 40	A1 - Non-Combustible

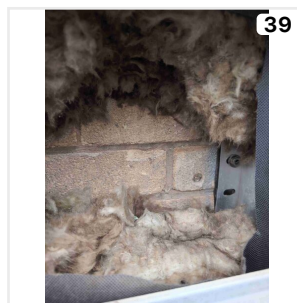
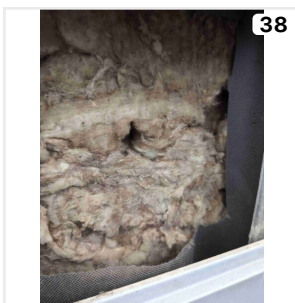
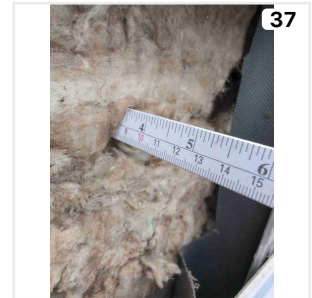
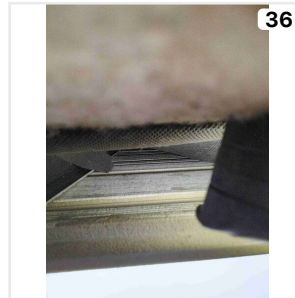
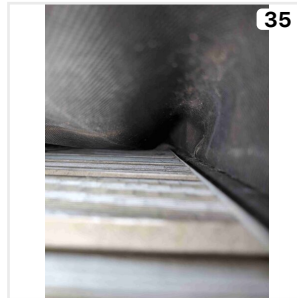
Cavity Barriers

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: TJ8BWH

Elevation • Location
NORTH • JUNCTION - VERTICAL AND HORIZONTAL COMPARTMENT



Name/Summary

RENDER SYSTEM - NORTH ELEVATION

Build-Up

3 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Surface Finish	9mm	Sto render	41, 42	A1 - Non-Combustible
Insulation	90mm	Mineral Wool Insulation	43, 44	A1 - Non-Combustible
Inner Leaf Support (Backing Wall)		Concrete wall	45, 46	A1 - Non-Combustible

Cavity Barriers

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

Floor Slab

Reinforced concrete

Build-up Photos



Inspection: HTH9JA

Elevation • Location
EAST • JUNCTION WITH OTHER FACADE TYPES



Name/Summary

PANEL SYSTEM - NORTH ELEVATION

Build-Up

5 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Surface Finish	20mm	Stone tile	47, 48	A1 - Non-Combustible
Breather Membrane	1mm		49, 50	E - Highly Combustible
Cavity	30mm		51, 52	
Insulation	90mm	Mineral Wool Insulation	53, 54	A1 - Non-Combustible
Inner Leaf Support (Backing Wall)		Original blockwork	55, 56, 57	A1 - Non-Combustible

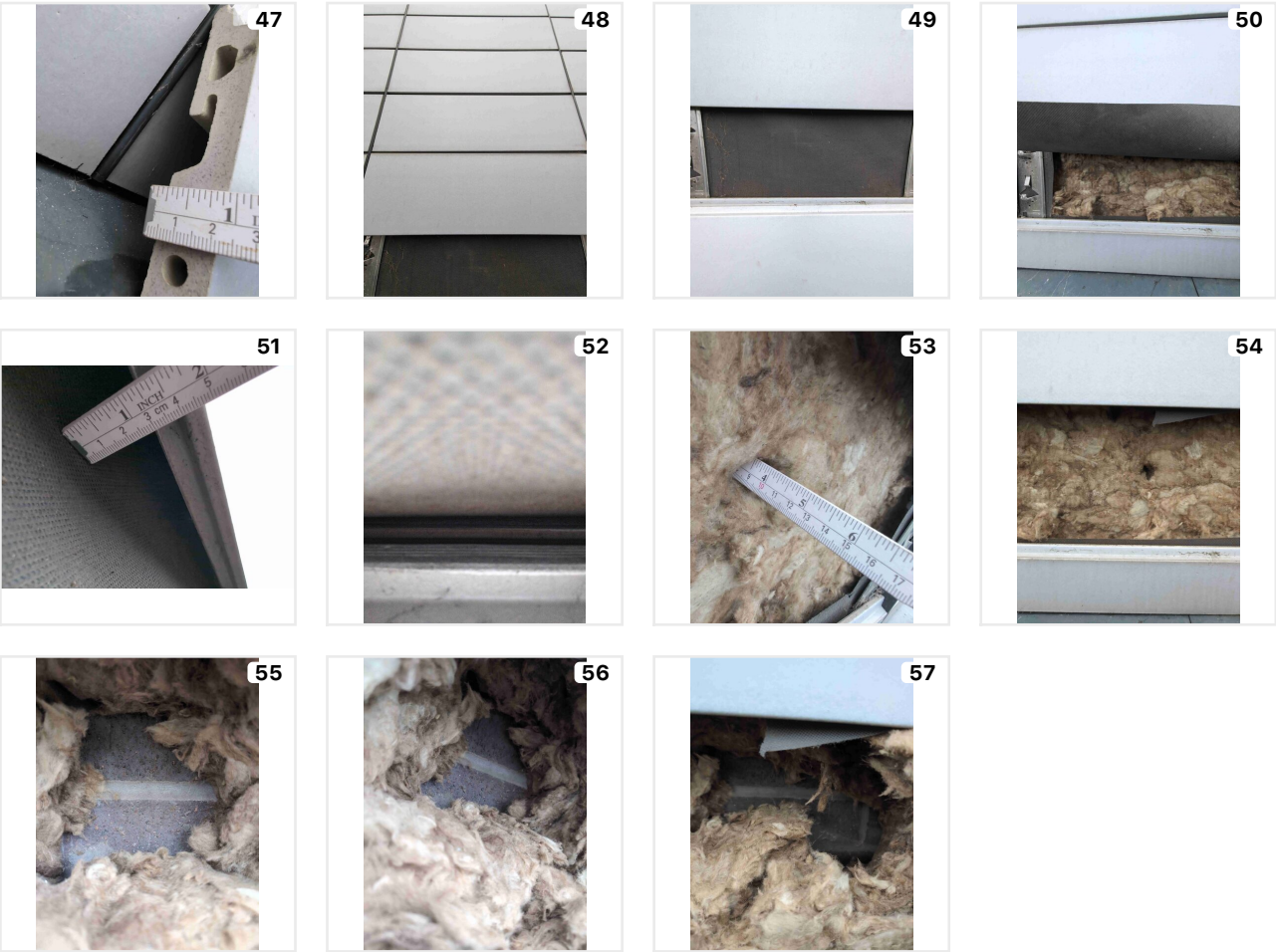
Cavity Barriers

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: LBJM3B

Location
Concrete wall

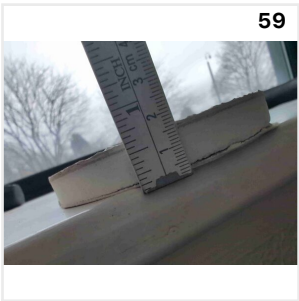
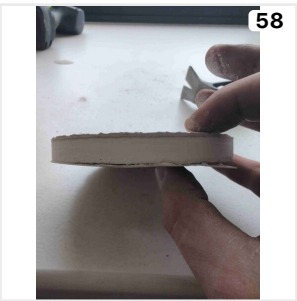
Name/Summary

Internal window 5th floor

Build-Up

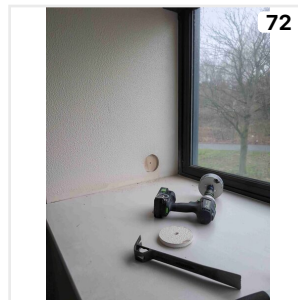
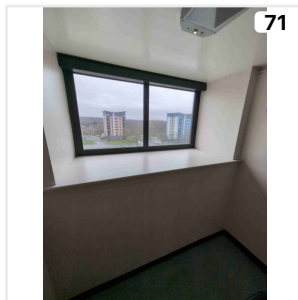
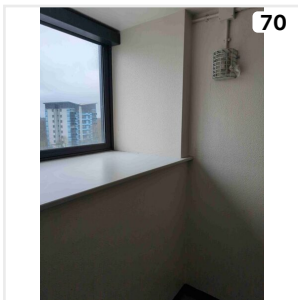
5 Elements	Thickness/Depth	Material	Photo Ref.	Rating (BS EN13501)
Surface Finish	15mm	Plasterboard	58, 59	A2 - Limited Combustibility
Other		Plywood board	60, 61, 62	C - Combustible
Cavity	50mm		63, 64	
Insulation	50mm	Mineral Wool Insulation	65, 66	A1 - Non-Combustible
Inner Leaf Support (Backing Wall)		Concrete wall	67, 68, 69	A1 - Non-Combustible

Build-up Photos





Inspection Photos



Attachments & Balconies

Photo

Attachment



Inset Balcony (YEQ99G)

Configuration: Stacked, Inset

Size: Private balcony spanning only a single compartment

Attachment: Inset Balcony

Attachment Reference
YEQ99G

Details

Configuration

Stacked, Inset

Size

Private balcony spanning only a single compartment

Framework/Structure

Reinforced concrete framework extension of the floor slab

Handrail

Steel

Balustrade

Steel

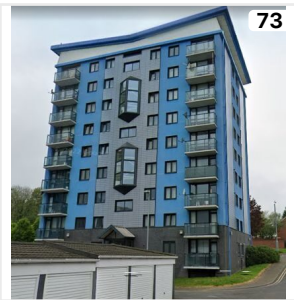
Soffit

Concrete

Infill

Toughened Safety Glass

Photos



External Windows

Photo

External Window



Top, Mid, Side Hung Casements (MXNFMK)

External Window: Top, Mid, Side Hung Casements

External Window Reference
MXNFMK

Details

Surface Material

Aluminium

Infill / Panel Material

Toughened Glass

Frame Material

Aluminium

Details

Powder Coated Aluminium

Photos



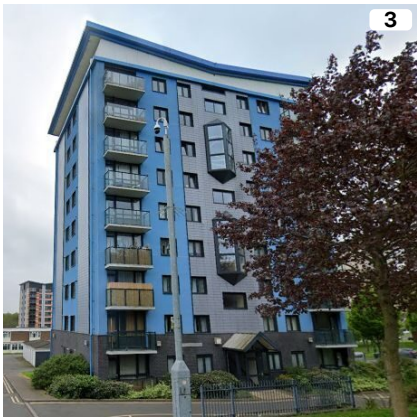
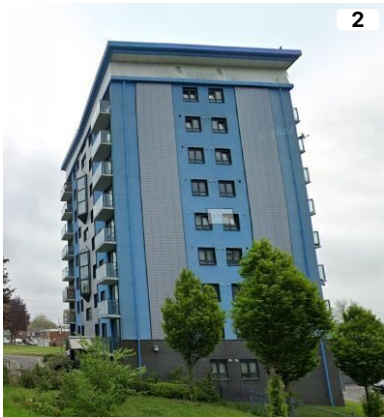
Plan: EAST



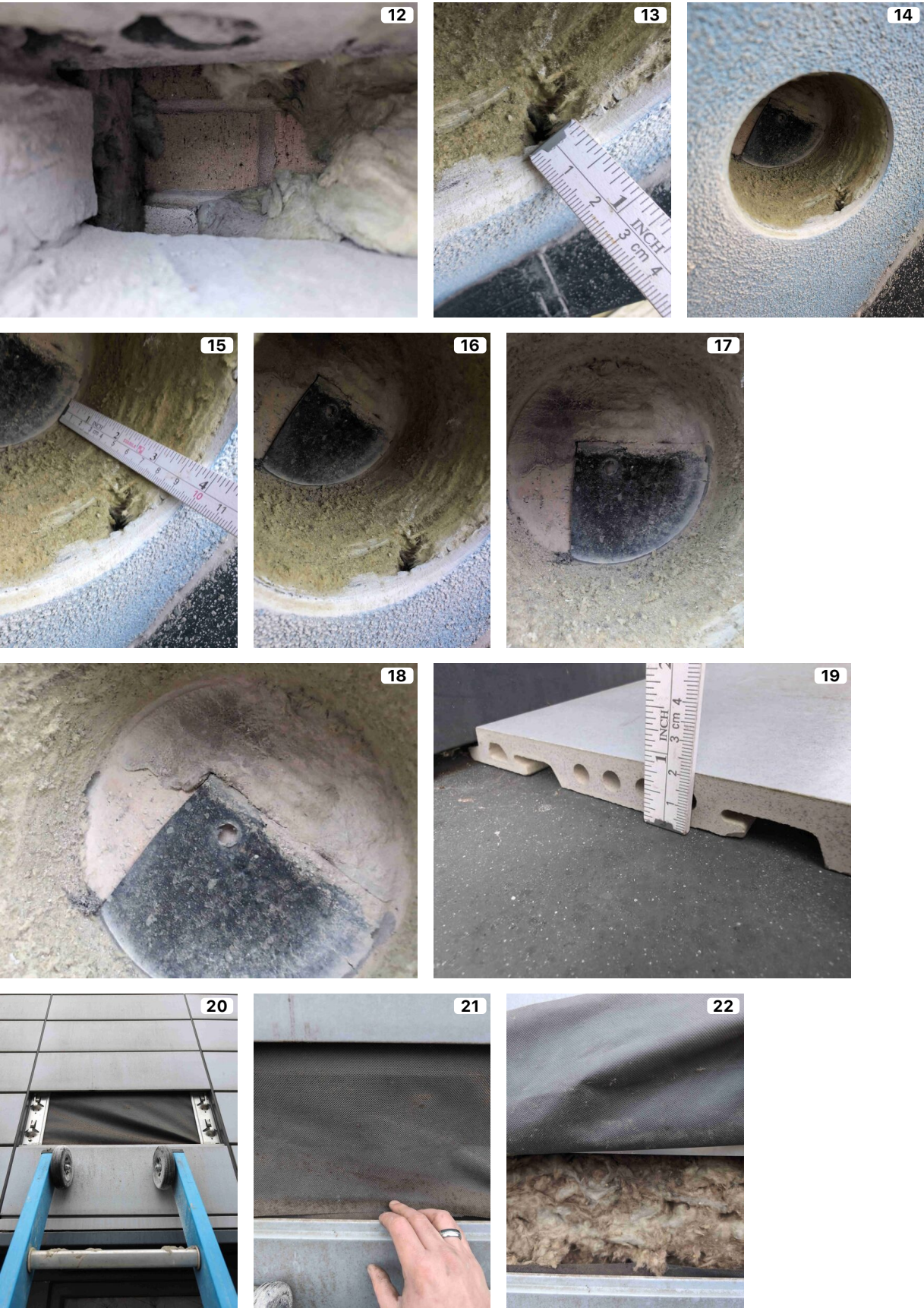
Plan: NORTH



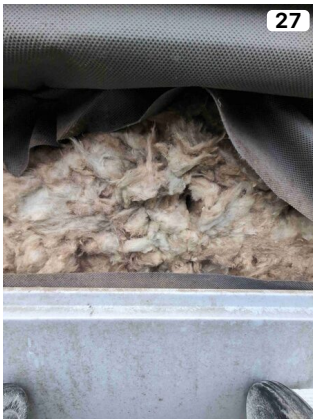
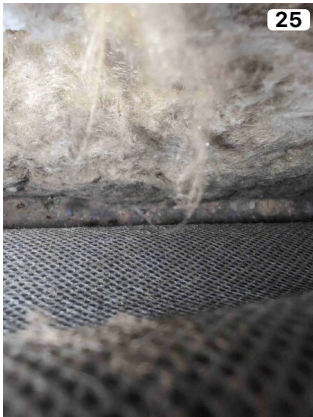
Photos



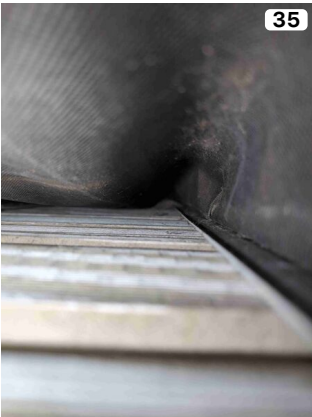
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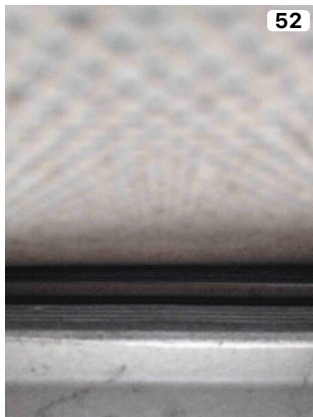
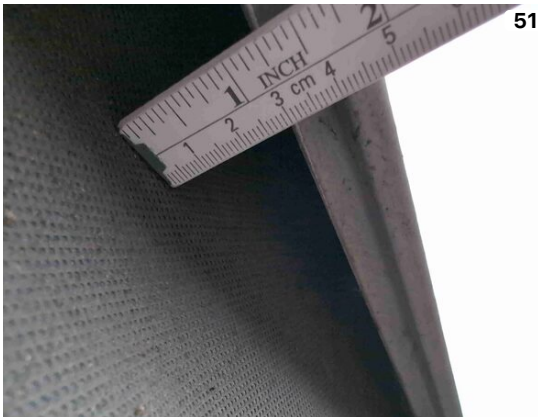
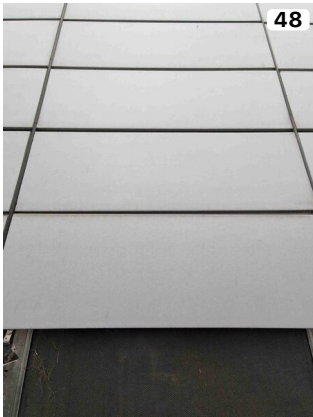
Photos Continued...



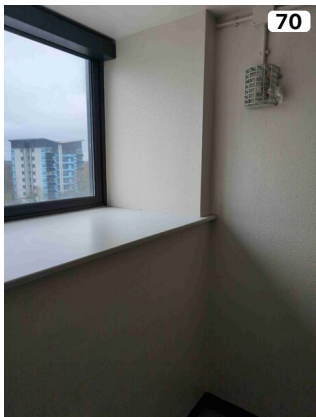
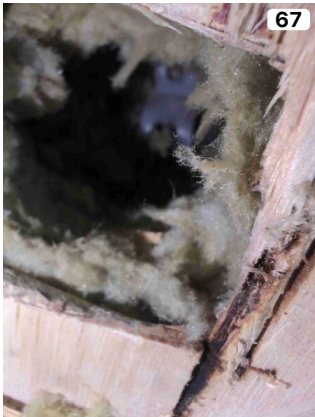
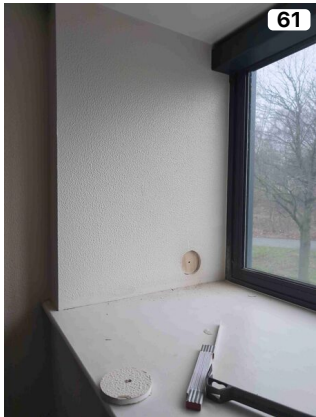
Photos Continued...



Photos Continued...



Photos Continued...



Photos Continued...





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