



# **2.7 FIRE INFORMATION**

## 2.7.2 Fire Safety Strategy

The fire strategy drawings were provided by **Glen Howells Architects** and follow in this section.

Drawing No.	Drawing Title	Rev
2325-GHA-BA-ZZ-DR-A-(07)0200	Block A - North Elevation Fire Strategy	AB
2325-GHA-BA-ZZ-DR-A-(07)0201	Block A - East + West Elevations Fire Strategy	AB
2325-GHA-BA-ZZ-DR-A-(07)0202	Block A - South Elevation Fire Strategy	AB
2325-GHA-BA-ZZ-DR-A-(07)0203	Block A1 - East Elevation Fire Strategy	AB
23c25-GHA-BA-B0-DR-A-(07)0099	Block A - B00 - Fire Strategy Plan	AB
2325-GHA-BA-11-DR-A-(07)0111	Block A - L11,L13,L15 - Fire Strategy Plan	AB
2325-GHA-BA-12-DR-A-(07)0112	Block A - L12,L14,L16 - Fire Strategy Plan	AB
2325-GHA-BA-17-DR-A-(07)0117	Block A - L17 - Fire Strategy Plan	AB
2325-GHA-BA-18-DR-A-(07)0118	Block A - L18 - Fire Strategy Plan	AB
2325-GHA-BA-03-DR-A-(07)0103	Block A - L03-06 - Fire Strategy Plan	AB
2325-GHA-BA-08-DR-A-(07)0108	Block A - L08-10 - Fire Strategy Plan	P3
2325-GHA-BA-08-DR-A-(07)0107	Block A - L07 - Fire Strategy Plan	P3
2325-GHA-BA-02-DR-A-(07)0102	Block A - L02 - Fire Strategy Plan	AB
2325-GHA-BA-01-DR-A-(07)0101	Block A - L01 - Fire Strategy Plan	AB
2325-GHA-BA-00-DR-A-(07)0100	Block A - L00 - Fire Strategy Plan	AB
2325-GHA-01-B0-DR-A-(07)0179	B01 - Fire Strategy Plan	AB
2325-GHA-01-00-DR-A-(07)0180	L00 - Fire Strategy Plan	AB



#### Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire

Consultant's report.

Block	Top floor height (m)	Structural Fire Resistance Requirement	
A1	> 18.0	120 minutes	
A2	> 18.0	60 minutes	
В	> 18.0	120 minutes	
С	> 18.0	90 minutes	
D	18.0	60 minutes	

#### Periods of fire resistance for fire-separating elements (in minutes) Compartmentation Summary: Table 10

Location	Fire Rating	
Compartment Floors - Block A1 and B	120	
Compartment Floors - Block A2 and D	60	
Compartment Floors - Block C	90	
Wall separating Cores A1 and A2	120	
Firefighting Stairs	120	
Firefighting Lifts	120	
Protected Stairs - Block B2	120	
Protected Stairs - Block A2	90	
Protected Stairs - Block D and the Hub	60	
Passenger Lifts - Block A1 and B	120	
Passenger Lifts - Block D and the Hub	60	
Passenger Lifts - Block C	90	
Gym	60	
Service shafts and smoke shafts - A1 and B	120	
Service shafts and smoke shafts - A2, D & E	60	
Location	Fire Rating	
Service shafts and smoke shafts - C	90	
Retail Units	60	
Walls separating apartments	60	
Duplex Internal Protected Stairs	30	
Common Corridor	60	
Protected Corridor - Block E (Hub)	60	
Storage and Plant	60	
Refuse Stores	60	
Car Park	60	
Other Ancillary Accommodation	60	
Rooms of special fire hazard (e.g. Generator room)	30	
Substation	120	
External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and loadbearing from both sides of the wall	
	20 minutes loadbearing capacity and integ and 15 minutes insulation from the inside of	

#### Fire Doors: Table 11

Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 Sa	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 Sa	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 S <sub>a</sub>	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 Sa	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 S <sub>a</sub>	N/A
Lobby doors	FD 30S	E 30 S <sub>a</sub>	Yes
Cross-corridor Doors	FD 30S	E 30 Sa	Yes
Refuse stores	FD 30S	E 30 Sa	N/A
Stair A2 and D1	FD 30S	E 30 Sa	Yes
Stair B2	FD 60S	E 60 Sa	Yes
Door separating A1 & A2	FD 120S	E 120 Sa	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 Sa	Yes
Other Ancillary Accommodation	FD 30S	E 30 Sa	Yes

## **REFER TO 2190 FOR PLOT 02 INFORMATION**

3700mm min. clear width required between kerbs and 3100mm min.

clear width required for gateways.



#### Fire Rated Wall / Door

30 min. Fire Rated Wall 60 min. Fire Rated Wall 90 min. Fire Rated Wall 120 min. Fire Rated Wall

FD30S Door

FD60S Door

FD90S Door

FD120S Door

Continuous Vertical Fire Stop and/or Cavity Barrier Fire stop to match the fire resistance as per associated fire-rated compartment wall/floor.

Cavity barrier should achieve a fire resistance of at least 30 minutes for integrity and 15 minutes for insulation as per

#### **Smoke Ventilation Systems**

Ý AOV N

Natural Inlet Shaft (Minimum free cross-sectional area of 0.8m<sup>2</sup>)

Ventilated Lobby / Corridor

Approved Document B.

Mechanical Smoke Ventilation System (MSVS) (Minimum free cross-sectional area of 0.8m<sup>2</sup>) Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.2m<sup>2</sup>)

Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.4m<sup>2</sup>)

Area ventilated via 1.5m<sup>2</sup> free area on louvred final exit door

1.0 m<sup>2</sup> AOV at Head of Stairs

#### Automatic Suppression System

<u>Residential</u> Category 2 Sprinkler System in accordance with BS 9251
Ancillary Accomodation Category 3 Sprinkler System in accordance with BS 9251
<u>Retail Units &amp; Basement Car Park</u> OH2 system in accordance with BS EN 12845

Means of Escape



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Hob Clearance Zone

Minimum clear opening required

for fire strategy compliance

Final Exit Door

Fire Escape Travel Distance

Refuge Point

#### Duplex Ceiling



#### **Rescue Service Access**

	Fire Tender
	Distance from Fire Appliance to Dry Riser Inlet (<18m)
Ο	Dry Riser Outlet
Ι	Dry Riser Inlet
WO	Wet Riser Outlet
WI	Wet Riser Inlet
	Fire Fighting Stair
	Fire Fighting Lift
Η	Fire Hydrant

#### Notes & Key

DIMENSIONS NOT TO BE SCALED FROM THIS DRAWING. CONTRACTORS TO NOTIFY ARCHITECTS OF SITE VARIATIONS AFFECTING INFORMATION ON THIS DRAWING. THIS DRAWING IS COPYRIGHT OF GLENN HOWELLS ARCHITECTS.

#### GENERAL

The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation compliance. The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-oordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022. MINIMUM COMPARTMENTATION

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017;

Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required). The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design packages.

STRUCTURE Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural specification.

Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer. FACADE

All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list. FIRE STOPPING AND/OR CAVITY BARRIER

Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991.

Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991. Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer.

DOORS For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings.

Lintels over doors to achieve same rating as wall.

Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips.

All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

TO BE READ IN CONJUNCTION WITH:

(07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings

#### Revisions

Date	Rev	Ву	Details
24.02.23	C01	TK	Construction Issue
26.07.23	C02	JBP	Fire hydrant locations added
26.09.23	C03	JBP	Fire hydrant location added
26.02.24	C04	LM	Issued for Final Construction

This drawing is the latest revision issued for construction under the building contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.



# FINAL CONSTRUCTION

Project

KSB Plot 01

Client

Winvic Construction Ltd

Drawing Title L00 - Fire Strategy Plan

Drawing No.	Revision	
2325-GHA-01-00-DR-/	C04	
Scale Scale - As indicated@A1	Date JULY 21	Checked RB/TS

**Glenn Howells Architects** Birmingham London

glennhowells.co.uk

#### Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's report.

Block	Top floor height (m)	Structural Fire Resistance Requirement		
A1	> 18.0	120 minutes		
A2	> 18.0	60 minutes		
В	> 18.0	120 minutes		
С	> 18.0	90 minutes		
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#### Periods of fire resistance for fire-separating elements (in minutes) **Compartmentation Summary: Table 10**

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Compartment Floors - Block C	90	
Wall separating Cores A1 and A2	120	
Firefighting Stairs	120	
Firefighting Lifts	120	
Protected Stairs - Block B2	120	
Protected Stairs - Block A2	90	
Protected Stairs - Block D and the Hub	60	
Passenger Lifts - Block A1 and B	120	
Passenger Lifts - Block D and the Hub	60	
Passenger Lifts - Block C	90	
Gym	60	
Service shafts and smoke shafts - A1 and B	120	
Service shafts and smoke shafts - A2, D & E	60	
Location	Fire Rating	
Service shafts and smoke shafts - C	90	
Retail Units	60	
Walls separating apartments	60	
Duplex Internal Protected Stairs	30	
Common Corridor	60	
Protected Corridor - Block E (Hub)	60	
Storage and Plant	60	
Refuse Stores	60	
Car Park	60	
Other Ancillary Accommodation	60	
Rooms of special fire hazard (e.g. Generator room)	30	
Substation	120	
External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and loadbearing from both sides of the wa	all
External Walls more than 1m from Relevant Boundar	20 minutes loadbearing capacity and integri y and 15 minutes insulation from the inside or	

#### Fire Doors: Table 11

Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 Sa	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 Sa	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 Sa	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 S <sub>a</sub>	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sa	N/A
Lobby doors	FD 30S	E 30 S <sub>a</sub>	Yes
Cross-corridor Doors	FD 30S	E 30 Sa	Yes
Refuse stores	FD 30S	E 30 S <sub>a</sub>	N/A
Stair A2 and D1	FD 30S	E 30 Sa	Yes
Stair B2	FD 60S	E 60 S <sub>a</sub>	Yes
Door separating A1 & A2	FD 120S	E 120 S <sub>a</sub>	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 Sa	Yes
Other Ancillary Accommodation	FD 30S	E 30 Sa	Yes

**REFER TO 2190 FOR** PLOT 02 INFORMATION



#### Fire Rated Wall / Door

30 min. Fire Rated Wall 60 min. Fire Rated Wall 90 min. Fire Rated Wall 120 min. Fire Rated Wall

FD30S Door

FD60S Door

FD90S Door

FD120S Door

Continuous Vertical Fire Stop and/or Cavity Barrier Fire stop to match the fire resistance as per associated fire-rated compartment wall/floor.

Cavity barrier should achieve a fire resistance of at least 30 minutes for integrity and 15 minutes for insulation as per Approved Document B.

#### Smoke Ventilation Systems

' AOV `

Natural Inlet Shaft (Minimum free cross-sectional area of 0.8m<sup>2</sup>) Mechanical Smoke Ventilation System (MSVS)

Ventilated Lobby / Corridor

(Minimum free cross-sectional area of 0.8m<sup>2</sup>) Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.2m<sup>2</sup>)

Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.4m<sup>2</sup>)

Area ventilated via 1.5m<sup>2</sup> free area on

1.0 m<sup>2</sup> AOV at Head of Stairs

#### Automatic Suppression System

louvred final exit door

<u>Residential</u> Category 2 Sprinkler System in accordance with BS 9251 Ancillary Accomodation Category 3 Sprinkler System in accordance with BS 9251 Retail Units & Basement Car Park OH2 system in accordance with BS EN 12845

#### Means of Escape



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Hob Clearance Zone

Minimum clear opening required

for fire strategy compliance

Final Exit Door

Fire Escape Travel Distance

Refuge Point

#### Duplex Ceiling



#### **Rescue Service Access**

	Fire Tender
	Distance from Fire Appliance to Dry Riser Inlet (<18m)
Ο	Dry Riser Outlet
Ι	Dry Riser Inlet
wo	Wet Riser Outlet
WI	Wet Riser Inlet
	Fire Fighting Stair
	Fire Fighting Lift
H	Fire Hydrant

#### Notes & Key

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#### GENERAL

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MINIMUM COMPARTMENTATION In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required).

The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design packages.

STRUCTURE Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural specification. Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

FACADE All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

FIRE STOPPING AND/OR CAVITY BARRIER

Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991.

Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991. Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer.

DOORS

For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings. Lintels over doors to achieve same rating as wall.

Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips.

All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

TO BE READ IN CONJUNCTION WITH:

(07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings

#### Revisions

Date	Rev	Ву	Details
24.02.23	C01	TK	Construction Issue
26.07.23	C02	JBP	Fire hydrant locations added
26.02.24	C03	LM	Issued for Final Construction

This drawing is the latest revision issued for construction under the building contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.





# FINAL CONSTRUCTION

Project

KSB Plot 01

Client

Winvic Construction Ltd

Drawing Title B01 - Fire Strategy Plan Drawing No. Revision

2325-GHA-01-B0-DR-A-(07)0179 C03 Scale Date Checked Scale - As indicated@A1 JULY 21 RB/TS

**Glenn Howells Architects** 

Birmingham London





#### Fire Rated Wall / Door Means of Escape Smoke Ventilation Systems 30 min. Fire Rated Wall Ventilated Lobby / Corridor Minimum clear opening required for fire strategy compliance 60 min. Fire Rated Wall Natural Inlet Shaft (Minimum free cross-sectional area of 0.8m<sup>2</sup>) + + 90 min. Fire Rated Wall Mechanical Smoke Ventilation System (MSVS) 120 min. Fire Rated Wall Hob Clearance Zone (Minimum free cross-sectional area of 0.8m<sup>2</sup>) Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.2m<sup>2</sup>) FD30S Door Final Exit Door Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.4m<sup>2</sup>) FD60S Door Fire Escape Travel + - + Area ventilated via 1.5m<sup>2</sup> free area on Distance louvred final exit door FD90S Door Refuge Point 1.0 m<sup>2</sup> AOV at Head of Stairs ´ AOV ` FD120S Door Automatic Suppression System Duplex Ceiling Residential Category 2 Sprinkler System Continuous Vertical Fire Stop and/or Soffit cladding to Cavity Barrier achieve 30min FR in accordance with BS 9251 Ancillary Accomodation Category 3 Sprinkler System Fire stop to match the fire resistance as per $\sum$ associated fire-rated compartment wall/floor. in accordance with BS 9251 Cavity barrier should achieve a fire resistance of at least 30 minutes for integrity Retail Units & Basement Car Park and 15 minutes for insulation as per OH2 system Approved Document B. in accordance with BS EN 12845

Notes & Key

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FACADE

GENERAL

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**Rescue Service Access** 

	Fire Tender				
	Distance from Fire Appliance to Dry Riser Inlet (<18m)				
Ο	Dry Riser Outlet				
Ι	Dry Riser Inlet				
WO	Wet Riser Outlet				
WI	Wet Riser Inlet				
	Fire Fighting Stair				
	Fire Fighting Lift				
Ext. 🕺 🕂	Exit Arrow Down				
	Exit Arrow Right				
<b>ح ک</b> افتند	Exit Arrow Left				
Da 🛃 介	Exit Arrow Up				

## FIRE STOPPING AND/OR CAVITY BARRIER Suitable provisions should be made to prevent the unseen spread of The provision of any such barriers should meet the general recomme

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Lintels over doors to achieve same rating as wall. Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips. All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

#### Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's

Block	Top floor height (m)	Structural Fire Resistance Requirement	
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## Fire Doors: Table 11

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Service Risers - Blocks A2, D & E	FD 30S	E 30 Sa	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sa	N/A
Lobby doors	FD 30S	E 30 Sa	Yes
Cross-corridor Doors	FD 30S	E 30 S <sub>a</sub>	Yes
Refuse stores	FD 30S	E 30 Sa	N/A
Stair A2 and D1	FD 30S	E 30 Sa	Yes
Stair B2	FD 60S	E 60 S <sub>a</sub>	Yes
Door separating A1 & A2	FD 120S	E 120 S <sub>a</sub>	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 Sa	Yes
Other Ancillary Accommodation	FD 30S	E 30 Sª	Yes

## artmontation Summary, Table 10

Location	Fire Rating	Location	Fire Rating
Compartment Floors - Block A1 and B	120	Service shafts and smoke shafts - C	90
Compartment Floors - Block A2 and D	60	Retail Units	60
Compartment Floors - Block C	90	Walls separating apartments	60
Wall separating Cores A1 and A2	120	Duplex Internal Protected Stairs	30
Firefighting Stairs	120	Common Corridor	60
Firefighting Lifts	120	Protected Corridor - Block E (Hub)	60
Protected Stairs - Block B2	120	Storage and Plant	60
Protected Stairs - Block A2	90	Refuse Stores	60
Protected Stairs - Block D and the Hub	60	Car Park	60
Passenger Lifts - Block A1 and B	120	Other Ancillary Accommodation	60
Passenger Lifts - Block D and the Hub	60	Rooms of special fire hazard (e.g. Generator room)	30
Passenger Lifts - Block C	90	Substation	120
Gym	60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
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fire and smoke through cavities or concealed spaces by the use of cavity barriers. endations of BS 9991.
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TO BE READ IN CONJUNCTION WITH: (07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings

# Location Key



contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.

This drawing is the latest revision issued for construction under the building

## Periods of fire resistance for fire-separating elements (in minutes)

# FINAL CONSTRUCTION

Project KSB Plot 01

Client

Winvic Construction Ltd

#### Drawing Title Block A - L00 - Fire Strategy Plan Drawing No. Revision 2325-GHA-BA-00-DR-A-(07)0100 C02 Checked Scale Date JULY 21 RB/TS Scale - 1 : 100@A1 **Glenn Howells Architects** Birmingham London glennhowells.co.uk





Fire Rated Wall / Door



Notes & Key

ARCHITECTS.

Continuous Vertical Fire Stop and/or Cavity Barrier

DIMENSIONS NOT TO BE SCALED FROM THIS DRAWING.

VARIATIONS AFFECTING INFORMATION ON THIS DRAWING.

CONTRACTORS TO NOTIFY ARCHITECTS OF SITE

THIS DRAWING IS COPYRIGHT OF GLENN HOWELLS

Fire stop to match the fire resistance as per associated fire-rated compartment wall/floor. Cavity barrier should achieve a fire resistance of at least 30 minutes for integrity and 15 minutes for insulation as per Approved Document B.

## Smoke Ventilation Systems

- Ventilated Lobby / Corridor
- Natural Inlet Shaft (Minimum free cross-sectional area of 0.8m<sup>2</sup>)
- Mechanical Smoke Ventilation System (MSVS)

Means of Escape

+

+ - +

**Duplex Ceiling** 

Minimum clear opening required for fire strategy compliance

Hob Clearance Zone

Final Exit Door

Distance

Refuge Point

Soffit cladding to

achieve 30min FR

Fire Escape Travel

- (Minimum free cross-sectional area of 0.8m<sup>2</sup>) Permanently Ventilated Lobby or Suitable
- Mechnaical Alternative (0.2m²)
- Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.4m<sup>2</sup>)
- Area ventilated via 1.5m<sup>2</sup> free area on louvred final exit door
- 1.0 m<sup>2</sup> AOV at Head of Stairs ´ AOV `

## Automatic Suppression System

- <u>Residential</u> Category 2 Sprinkler System
- in accordance with BS 9251 Ancillary Accomodation Category 3 Sprinkler System
- $\sum$ in accordance with BS 9251
- Retail Units & Basement Car Park OH2 system in accordance with BS EN 12845

## GENERAL

The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation compliance. The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-oordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022.

## MINIMUM COMPARTMENTATION

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required). The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design packages. STRUCTURE

Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural specification. Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

#### FACADE

All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

**Rescue Service Access** 

	Fire Tender
	Distance from Fire Appliance to Dry Riser Inlet (<18m)
Ο	Dry Riser Outlet
Ι	Dry Riser Inlet
WO	Wet Riser Outlet
WI	Wet Riser Inlet
	Fire Fighting Stair
	Fire Fighting Lift
Ent 🛐 🕂	Exit Arrow Down
Bat <mark>A</mark> →	Exit Arrow Right
← <mark>2</mark> =×it	Exit Arrow Left

ह्य 🚮 🏠 🛛 Exit Arrow Up

# FIRE STOPPING AND/OR CAVITY BARRIER

Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991.

# DOORS

For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings. Lintels over doors to achieve same rating as wall. Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips.

All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's

report.					
Block	Top floor height (m)	Structural Fire Resistance Requirement			
A1	> 18.0	120 minutes			
A2	> 18.0	60 minutes			
В	> 18.0	120 minutes			
С	> 18.0	90 minutes			
D	18.0	60 minutes			

#### Fire Doors: Table 11

Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 S <sub>a</sub>	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 S <sub>a</sub>	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 Sa	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 Sa	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sa	N/A
Lobby doors	FD 30S	E 30 Sa	Yes
Cross-corridor Doors	FD 30S	E 30 S <sub>a</sub>	Yes
Refuse stores	FD 30S	E 30 Sa	N/A
Stair A2 and D1	FD 30S	E 30 S <sub>a</sub>	Yes
Stair B2	FD 60S	E 60 S <sub>a</sub>	Yes
Door separating A1 & A2	FD 120S	E 120 S <sub>a</sub>	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 Sa	Yes
Other Ancillary Accommodation	FD 30S	E 30 Sª	Yes

## Compartmentation Summary: Table 10

Location	Fire Rating	Location	Fire Rating
Compartment Floors - Block A1 and B	120	Service shafts and smoke shafts - C	90
Compartment Floors - Block A2 and D	60	Retail Units	60
Compartment Floors - Block C	90	Walls separating apartments	60
Wall separating Cores A1 and A2	120	Duplex Internal Protected Stairs	30
Firefighting Stairs	120	Common Corridor	60
Firefighting Lifts	120	Protected Corridor - Block E (Hub)	60
Protected Stairs - Block B2	120	Storage and Plant	60
Protected Stairs - Block A2	90	Refuse Stores	60
Protected Stairs - Block D and the Hub	60	Car Park	60
Passenger Lifts - Block A1 and B	120	Other Ancillary Accommodation	60
Passenger Lifts - Block D and the Hub	60	Rooms of special fire hazard (e.g. Generator room)	30
Passenger Lifts - Block C	90	Substation	120
Gym	60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
Service shafts and smoke shafts - A1 and B	120		loadbearing from both sides of the wall
Service shafts and smoke shafts - A2, D & E	60	External Walls more than 1m from Relevant Boundary	20 minutes loadbearing capacity and integrity and 15 minutes insulation from the inside out

Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991.

Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer.

TO BE READ IN CONJUNCTION WITH: (07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings



## Revisions Rev By Details Date 26.02.24 C01 LM Issued for Final Construction

contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.

This drawing is the latest revision issued for construction under the building

## Periods of fire resistance for fire-separating elements (in minutes)

# FINAL CONSTRUCTION

Project KSB Plot 01

Client







DIMENSIONS NOT TO BE SCALED FROM THIS DRAWING. CONTRACTORS TO NOTIFY ARCHITECTS OF SITE VARIATIONS AFFECTING INFORMATION ON THIS DRAWING. THIS DRAWING IS COPYRIGHT OF GLENN HOWELLS ARCHITECTS.

## Smoke Ventilation Systems

- Ventilated Lobby / Corridor Natural Inlet Shaft (Minimum free cross-sectional area of 0.8m<sup>2</sup>) Mechanical Smoke Ventilation System (MSVS) (Minimum free cross-sectional area of 0.8m<sup>2</sup>) Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.2m<sup>2</sup>) Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.4m<sup>2</sup>)
- Area ventilated via 1.5m<sup>2</sup> free area on louvred final exit door × 1.0 m<sup>2</sup> AOV at Head of Stairs
- ' AOV `

#### Automatic Suppression System

- <u>Residential</u> Category 2 Sprinkler System in accordance with BS 9251 Ancillary Accomodation Category 3 Sprinkler System in accordance with BS 9251
- <u>Retail Units & Basement Car Park</u> OH2 system
- in accordance with BS EN 12845

# for fire strategy compliance ××

Means of Escape

# Minimum clear opening required



Hob Clearance Zone Final Exit Door



Fire Escape Travel Distance

Refuge Point

## Duplex Ceiling

Soffit cladding to achieve 30min FR

Fire Tender Distance from Fire Appliance to Dry Riser Inlet (<18m)</li> Dry Riser Outlet Dry Riser Inlet

**Rescue Service Access** 

WO Wet Riser Outlet WI Wet Riser Inlet air

	Fire Fighting Stai		
	Fire Fighting Lift		
<b>裂</b> 个	Exit Arrow Down		
ぷ→	Exit Arrow Right		
2.ExR	Exit Arrow Left		
<b>永</b> 个	Exit Arrow Up		

FIRE STOPPING AND/OR CAVITY BARRIER
Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991.
Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991.
Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement a the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19.
Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer. <u>DOORS</u>
For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings.
Lintels over doors to achieve same rating as wall.
Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips.
All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

MINIMUM COMPARTMENTATION

GENERAL

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required). The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design packages. STRUCTURE

The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation compliance.

The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-cordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022.

Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural specification. Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

FACADE

All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

#### Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's report.

Block	Top floor height (m)	Structural Fire Resistance Requirement		
A1	> 18.0	120 minutes		
A2	> 18.0	60 minutes		
В	> 18.0	120 minutes		
С	> 18.0	90 minutes		
D	18.0	60 minutes		

#### Fire Doors: Table 11

Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 Sa	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 S <sub>a</sub>	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 Sa	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 S <sub>a</sub>	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sa	N/A
Lobby doors	FD 30S	E 30 Sa	Yes
Cross-corridor Doors	FD 30S	E 30 S <sub>a</sub>	Yes
Refuse stores	FD 30S	E 30 S <sub>a</sub>	N/A
Stair A2 and D1	FD 30S	E 30 Sa	Yes
Stair B2	FD 60S	E 60 S <sub>a</sub>	Yes
Door separating A1 & A2	FD 120S	E 120 Sa	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 S <sub>a</sub>	Yes
Other Ancillary Accommodation	FD 30S	E 30 S <sub>a</sub>	Yes

# Compartmentation Summary: Table 10

Location	Fire Rating	Location	Fire Rating
Compartment Floors - Block A1 and B	120	Service shafts and smoke shafts - C	90
Compartment Floors - Block A2 and D	60	Retail Units	60
Compartment Floors - Block C	90	Walls separating apartments	60
Wall separating Cores A1 and A2	120	Duplex Internal Protected Stairs	30
Firefighting Stairs	120	Common Corridor	60
Firefighting Lifts	120	Protected Corridor - Block E (Hub)	60
Protected Stairs - Block B2	120	Storage and Plant	60
Protected Stairs - Block A2	90	Refuse Stores	60
Protected Stairs - Block D and the Hub	60	Car Park	60
Passenger Lifts - Block A1 and B	120	Other Ancillary Accommodation	60
Passenger Lifts - Block D and the Hub	60	Rooms of special fire hazard (e.g. Generator room)	30
Passenger Lifts - Block C	90	Substation	120
Gym	60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
Service shafts and smoke shafts - A1 and B	120	-	loadbearing from both sides of the wall
Service shafts and smoke shafts - A2, D & E	60	External Walls more than 1m from Relevant Boundary	20 minutes loadbearing capacity and integrity and 15 minutes insulation from the inside out

TO BE READ IN CONJUNCTION WITH: (07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings



## Revisions Rev By Details Date 26.02.24 C01 LM Issued for Final Construction

## This drawing is the latest revision issued for construction under the building contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.

## Periods of fire resistance for fire-separating elements (in minutes)

# FINAL CONSTRUCTION

Project KSB Plot 01

Client







DIMENSIONS NOT TO BE SCALED FROM THIS DRAWING. CONTRACTORS TO NOTIFY ARCHITECTS OF SITE VARIATIONS AFFECTING INFORMATION ON THIS DRAWING. THIS DRAWING IS COPYRIGHT OF GLENN HOWELLS ARCHITECTS.

## The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation compliance. The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-oordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022. MINIMUM COMPARTMENTATION

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required). The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design packages. STRUCTURE

Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural specification. Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

FACADE

GENERAL

All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

Fire Fighting Stair Fire Fighting Lift Exit Arrow Down Exit 🛃 🕂 Exit 🔊 🄶 Exit Arrow Right ikit 🗲 Exit Arrow Left en 🕺 🏷 Exit Arrow Up

Fire Tender

Dry Riser Outlet

Drv Riser Inlet

Wet Riser Outlet

Wet Riser Inlet

to Dry Riser Inlet (<18m)

# FIRE STOPPING AND/OR CAVITY BARRIER

Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991. Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer. DOORS For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings. Lintels over doors to achieve same rating as wall.

Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips. All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

#### Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's

report.					
Block	Top floor height (m)	Structural Fire Resistance Requirement			
A1	> 18.0	120 minutes			
A2	> 18.0	60 minutes			
В	> 18.0	120 minutes			
С	> 18.0	90 minutes			
D	18.0	60 minutes			

## Fire Doors: Table 11

Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 S <sub>a</sub>	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 Sa	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 Sa	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 Sa	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 S <sub>a</sub>	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sa	N/A
Lobby doors	FD 30S	E 30 Sa	Yes
Cross-corridor Doors	FD 30S	E 30 S <sub>a</sub>	Yes
Refuse stores	FD 30S	E 30 Sa	N/A
Stair A2 and D1	FD 30S	E 30 S <sub>a</sub>	Yes
Stair B2	FD 60S	E 60 S <sub>a</sub>	Yes
Door separating A1 & A2	FD 120S	E 120 S <sub>a</sub>	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 S <sub>a</sub>	Yes
Other Ancillary Accommodation	FD 30S	E 30 S₄	Yes

# Compartmentation Summary: Table 10

Location	Fire Rating	Location	Fire Rating
Compartment Floors - Block A1 and B	120	Service shafts and smoke shafts - C	90
Compartment Floors - Block A2 and D	60	Retail Units	60
Compartment Floors - Block C	90	Walls separating apartments	60
Wall separating Cores A1 and A2	120	Duplex Internal Protected Stairs	30
Firefighting Stairs	120	Common Corridor	60
Firefighting Lifts	120	Protected Corridor - Block E (Hub)	60
Protected Stairs - Block B2	120	Storage and Plant	60
Protected Stairs - Block A2	90	Refuse Stores	60
Protected Stairs - Block D and the Hub	60	Car Park	60
Passenger Lifts - Block A1 and B	120	Other Ancillary Accommodation	60
Passenger Lifts - Block D and the Hub	60	Rooms of special fire hazard (e.g. Generator room)	30
Passenger Lifts - Block C	90	Substation	120
Gym	60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
Service shafts and smoke shafts - A1 and B	120		loadbearing from both sides of the wall
Service shafts and smoke shafts - A2, D & E	60	External Walls more than 1m from Relevant Boundary	20 minutes loadbearing capacity and integrity and 15 minutes insulation from the inside out

Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991.

TO BE READ IN CONJUNCTION WITH: (07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings



Location Key



contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.

This drawing is the latest revision issued for construction under the building

## Periods of fire resistance for fire-separating elements (in minutes)

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-		

# FINAL CONSTRUCTION

Project KSB Plot 01

Client







FIRE STOPPING AND/OR CAVITY BARRIER Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991. Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991.

## DIMENSIONS NOT TO BE SCALED FROM THIS DRAWING.

Notes & Key

CONTRACTORS TO NOTIFY ARCHITECTS OF SITE VARIATIONS AFFECTING INFORMATION ON THIS DRAWING. THIS DRAWING IS COPYRIGHT OF GLENN HOWELLS ARCHITECTS.

## The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation compliance. The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-oordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022. MINIMUM COMPARTMENTATION

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required). The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design packages. STRUCTURE

Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural specification. Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

FACADE

GENERAL

All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

**Rescue Service Access** 

Fire Tender

– – – Distance from Fire Appliance

Dry Riser Outlet

Drv Riser Inlet

Wet Riser Outlet

Wet Riser Inlet

Fire Fighting Stair

Fire Fighting Lift

Exit Arrow Down

Exit Arrow Right

Exit Arrow Left

Exit Arrow Up

to Dry Riser Inlet (<18m)

WI

Exit 🛃 🕂 Bdt 🚮 →

ikit 🗲

en 🕺 🏷

Minimum clear opening required for fire strategy compliance

Hob Clearance Zone

Final Exit Door

Distance

Refuge Point

Soffit cladding to

achieve 30min FR

DOORS For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings. Lintels over doors to achieve same rating as wall. Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips.

All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

#### Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's

report.					
Block Top floor height (m)		Structural Fire Resistance Requirement			
A1	> 18.0	120 minutes			
A2	> 18.0	60 minutes			
В	> 18.0	120 minutes			
С	> 18.0	90 minutes			
D	18.0	60 minutes			

## Fire Doors: Table 11

Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 S <sub>a</sub>	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 S <sub>a</sub>	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 Sa	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 Sa	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sa	N/A
Lobby doors	FD 30S	E 30 Sa	Yes
Cross-corridor Doors	FD 30S	E 30 S <sub>a</sub>	Yes
Refuse stores	FD 30S	E 30 Sa	N/A
Stair A2 and D1	FD 30S	E 30 S <sub>a</sub>	Yes
Stair B2	FD 60S	E 60 S <sub>a</sub>	Yes
Door separating A1 & A2	FD 120S	E 120 Sa	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 Sa	Yes
Other Ancillary Accommodation	FD 30S	E 30 S₂	Yes

# **Compartmentation Summary: Table 10**

Location	Fire Rating	Location	Fire Rating
Compartment Floors - Block A1 and B	120	Service shafts and smoke shafts - C	90
Compartment Floors - Block A2 and D	60	Retail Units	60
Compartment Floors - Block C	90	Walls separating apartments	60
Wall separating Cores A1 and A2	120	Duplex Internal Protected Stairs	30
Firefighting Stairs	120	Common Corridor	60
Firefighting Lifts	120	Protected Corridor - Block E (Hub)	60
Protected Stairs - Block B2	120	Storage and Plant	60
Protected Stairs - Block A2	90	Refuse Stores	60
Protected Stairs - Block D and the Hub	60	Car Park	60
Passenger Lifts - Block A1 and B	120	Other Ancillary Accommodation	60
Passenger Lifts - Block D and the Hub	60	Rooms of special fire hazard (e.g. Generator room)	30
Passenger Lifts - Block C	90	Substation	120
Gym	60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
Service shafts and smoke shafts - A1 and B	120		loadbearing from both sides of the wall
Service shafts and smoke shafts - A2, D & E	60	External Walls more than 1m from Relevant Boundary	20 minutes loadbearing capacity and integrity and 15 minutes insulation from the inside out

Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer.

TO BE READ IN CONJUNCTION WITH: (07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings



## Revisions Rev By Details Date 26.02.24 C01 LM Issued for Final Construction

#### contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.

This drawing is the latest revision issued for construction under the building

## Periods of fire resistance for fire-separating elements (in minutes)

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# FINAL CONSTRUCTION

Project KSB Plot 01

Client









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- Ventilated Lobby / Corridor
- (Minimum free cross-sectional area of 0.8m<sup>2</sup>)
- Mechanical Smoke Ventilation System (MSVS)
- (Minimum free cross-sectional area of 0.8m<sup>2</sup>) Permanently Ventilated Lobby or Suitable
- Mechnaical Alternative (0.2m<sup>2</sup>)
- Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.4m<sup>2</sup>)
- Area ventilated via 1.5m<sup>2</sup> free area on louvred final exit door
- 1.0 m<sup>2</sup> AOV at Head of Stairs

- Residential Category 2 Sprinkler System
- in accordance with BS 9251
- in accordance with BS 9251
- Retail Units & Basement Car Park
- in accordance with BS EN 12845

GENERAL

packages.

STRUCTURE

specification.

MINIMUM COMPARTMENTATION

# Minimum clear opening required

Means of Escape

for fire strategy compliance +

# Hob Clearance Zone Final Exit Door

Fire Escape Travel + - + Distance

Refuge Point

## **Duplex Ceiling**



**Rescue Service Access** 

	Fire Tender
	Distance from Fire Appliance to Dry Riser Inlet (<18m)
Ο	Dry Riser Outlet
Ι	Dry Riser Inlet
WO	Wet Riser Outlet
WI	Wet Riser Inlet
	Fire Fighting Stair
	Fire Fighting Lift
Ent 🛐 🕂	Exit Arrow Down
Баб	Exit Arrow Right
	Exit Arrow Left

Exit Arrow Up

# FIRE STOPPING AND/OR CAVITY BARRIER

Eat 🚮 🏠

Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991. Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991.

DOORS

For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings. Lintels over doors to achieve same rating as wall. Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips.

FACADE

The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation compliance.

The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-oordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022.

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required).

The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design

Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural

All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's ropo

Block	Top floor height (m)	Structural Fire Resistance Requirement
A1	> 18.0	120 minutes
A2	> 18.0	60 minutes
В	> 18.0	120 minutes
С	> 18.0	90 minutes
D	18.0	60 minutes

#### Fire Doors: Table 11

			1
Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 S <sub>a</sub>	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 S <sub>a</sub>	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 Sa	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 Sa	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sª	N/A
Lobby doors	FD 30S	E 30 Sª	Yes
Cross-corridor Doors	FD 30S	E 30 S <sub>a</sub>	Yes
Refuse stores	FD 30S	E 30 Sa	N/A
Stair A2 and D1	FD 30S	E 30 S <sub>a</sub>	Yes
Stair B2	FD 60S	E 60 S <sub>a</sub>	Yes
Door separating A1 & A2	FD 120S	E 120 S <sub>a</sub>	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 Sa	Yes
Other Ancillary Accommodation	FD 30S	E 30 Sª	Yes

#### Periods of fire resistance for fire-separating elements (in minutes) Compartmentation Summary: Table 10

Location	Fire Rating	Location	Fire Rating
Compartment Floors - Block A1 and B	120	Service shafts and smoke shafts - C	90
Compartment Floors - Block A2 and D	60	Retail Units	60
Compartment Floors - Block C	90	Walls separating apartments	60
Wall separating Cores A1 and A2	120	Duplex Internal Protected Stairs	30
Firefighting Stairs	120	Common Corridor	60
Firefighting Lifts	120	Protected Corridor - Block E (Hub)	60
Protected Stairs - Block B2	120	Storage and Plant	60
Protected Stairs - Block A2	90	Refuse Stores	60
Protected Stairs - Block D and the Hub	60	Car Park	60
Passenger Lifts - Block A1 and B	120	Other Ancillary Accommodation	60
Passenger Lifts - Block D and the Hub	60	Rooms of special fire hazard (e.g. Generator room)	30
Passenger Lifts - Block C	90	Substation	120
Gym	60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
Service shafts and smoke shafts - A1 and B	120	- -	loadbearing from both sides of the wall
Service shafts and smoke shafts - A2, D & E	60	External Walls more than 1m from Relevant Boundary	20 minutes loadbearing capacity and integrity and 15 minutes insulation from the inside out

Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer.

All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

TO BE READ IN CONJUNCTION WITH: (07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings



Location Key



# Rev By Details 26.02.24 C01 LM Issued for Final Construction

#### contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.

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# FINAL CONSTRUCTION

Project KSB Plot 01

Client









60 min. Fire Rated Wall 90 min. Fire Rated Wall

FD120S Door

Continuous Vertical Fire Stop and/or Cavity Barrier

Fire stop to match the fire resistance as per associated fire-rated compartment wall/floor. Cavity barrier should achieve a fire

resistance of at least 30 minutes for integrity and 15 minutes for insulation as per Approved Document B.

## Notes & Key

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## Smoke Ventilation Systems

- Ventilated Lobby / Corridor Natural Inlet Shaft (Minimum free cross-sectional area of 0.8m<sup>2</sup>) Mechanical Smoke Ventilation System (MSVS) (Minimum free cross-sectional area of 0.8m<sup>2</sup>) Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.2m<sup>2</sup>) Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.4m<sup>2</sup>) Area ventilated via 1.5m<sup>2</sup> free area on louvred final exit door
- 1.0 m<sup>2</sup> AOV at Head of Stairs ' AOV `

## Automatic Suppression System

- <u>Residential</u> Category 2 Sprinkler System in accordance with BS 9251 Ancillary Accomodation Category 3 Sprinkler System in accordance with BS 9251
- <u>Retail Units & Basement Car Park</u> OH2 system

GENERAL

complian

packages.

STRUCTURE

specification.

MINIMUM COMPARTMENTATION

in accordance with BS EN 12845

## Minimum clear for fire strategy XX 17-2 Hob Clearance Final Exit Door ---Fire Escape Tra Distance Refuge Point Duplex Ceiling

Means of Escape



**Rescue Service Access** 

Fire Tender

Distance from Fire Appliance

to Dry Riser Inlet (<18m)

Dry Riser Outlet

Dry Riser Inlet

Wet Riser Outlet

Wet Riser Inlet

Fire Fighting Stair

Minimum clear opening required for fire strategy compliance	
Hob Clearance Zone	0
Final Exit Door	I wo
Fire Escape Travel Distance	WI
Refuge Point	
ling	Exit 🛣 🗸
Soffit cladding to achieve 30min FR	

Fire Fighting Lift Exit Arrow Down Exit Arrow Right Exit Arrow Left C V Exil en 🛣 🛧 Exit Arrow Up

FIRE STOPPING AND/OR CAVITY BARRIER

DOORS For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings. Lintels over doors to achieve same rating as wall. Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips.

FACADE All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation

The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-oordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022.

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required).

The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design

Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural

Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's

report.				
Block	Top floor height (m)	Structural Fire Resistance Requirement		
A1	> 18.0	120 minutes		
A2	> 18.0	60 minutes		
В	> 18.0	120 minutes		
С	> 18.0	90 minutes		
D	18.0	60 minutes		

TO BE READ IN CONJUNCTION WITH:

(07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings

#### Fire Doors: Table 11

Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 Sa	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 S <sub>a</sub>	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 Sa	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 Sa	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sa	N/A
Lobby doors	FD 30S	E 30 Sa	Yes
Cross-corridor Doors	FD 30S	E 30 Sa	Yes
Refuse stores	FD 30S	E 30 Sa	N/A
Stair A2 and D1	FD 30S	E 30 Sa	Yes
Stair B2	FD 60S	E 60 Sa	Yes
Door separating A1 & A2	FD 120S	E 120 Sa	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 Sa	Yes
Other Ancillary Accommodation	FD 30S	E 30 Sa	Yes

## Compartmentation Summary: Table 10

Location	Fire Rating	Location	Fire Rating
Compartment Floors - Block A1 and B	120	Service shafts and smoke shafts - C	90
Compartment Floors - Block A2 and D	60	Retail Units	60
Compartment Floors - Block C	90	Walls separating apartments	60
Wall separating Cores A1 and A2	120	Duplex Internal Protected Stairs	30
Firefighting Stairs	120	Common Corridor	60
Firefighting Lifts	120	Protected Corridor - Block E (Hub)	60
Protected Stairs - Block B2	120	Storage and Plant	60
Protected Stairs - Block A2	90	Refuse Stores	60
Protected Stairs - Block D and the Hub	60	Car Park	60
Passenger Lifts - Block A1 and B	120	Other Ancillary Accommodation	60
Passenger Lifts - Block D and the Hub	60	Rooms of special fire hazard (e.g. Generator room)	30
Passenger Lifts - Block C	90	Substation	120
Gym	60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
Service shafts and smoke shafts - A1 and B	120		loadbearing from both sides of the wall
Service shafts and smoke shafts - A2, D & E	60	External Walls more than 1m from Relevant Boundary	20 minutes loadbearing capacity and integrity and 15 minutes insulation from the inside out

# Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991. Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991.

Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer.

All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.



#### Revisions Rev By Details Date 26.02.24 C01 LM Issued for Final Construction

contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.

This drawing is the latest revision issued for construction under the building

#### Periods of fire resistance for fire-separating elements (in minutes)

# FINAL CONSTRUCTION

Project KSB Plot 01

Client







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#### <u>GENERAL</u>

The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation compliance. The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-oordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022. MINIMUM COMPARTMENTATION

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required). The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design packages.

#### STRUCTURE

Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural specification. Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

#### FACADE

All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

# **Rescue Service Access**

	Fire Tender
	Distance from Fire Appliance to Dry Riser Inlet (<18m)
0	Dry Riser Outlet
Ι	Dry Riser Inlet
WO	Wet Riser Outlet
WI	Wet Riser Inlet
	Fire Fighting Stair
	Fire Fighting Lift
Exil 🚮 🕹	Exit Arrow Down
Exit 🚮 🄶	Exit Arrow Right
<b>ح ک</b> Exit	Exit Arrow Left
Extil 🛣 个	Exit Arrow Up

# FIRE STOPPING AND/OR CAVITY BARRIER Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991. DOORS For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings.

Lintels over doors to achieve same rating as wall. Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips. All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

#### Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's

Block	Top floor height (m)	Structural Fire Resistance Requirement
A1	> 18.0	120 minutes
A2	> 18.0	60 minutes
В	> 18.0	120 minutes
С	> 18.0	90 minutes
D	18.0	60 minutes

#### Fire Doors: Table 11

Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 Sa	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 Sa	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 Sa	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 Sa	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sa	N/A
Lobby doors	FD 30S	E 30 Sa	Yes
Cross-corridor Doors	FD 30S	E 30 S <sub>a</sub>	Yes
Refuse stores	FD 30S	E 30 Sa	N/A
Stair A2 and D1	FD 30S	E 30 S <sub>a</sub>	Yes
Stair B2	FD 60S	E 60 S <sub>a</sub>	Yes
Door separating A1 & A2	FD 120S	E 120 S <sub>a</sub>	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sª	Yes
Car Park	FD 30S	E 30 Sa	Yes
Other Ancillary Accommodation	FD 30S	E 30 Sa	Yes

# **Compartmentation Summary: Table 10**

Location	Fire Rating	Location	Fire Rating
Compartment Floors - Block A1 and B	120	Service shafts and smoke shafts - C	90
Compartment Floors - Block A2 and D	60	Retail Units	60
Compartment Floors - Block C	90	Walls separating apartments	60
Wall separating Cores A1 and A2	120	Duplex Internal Protected Stairs	30
Firefighting Stairs	120	Common Corridor	60
Firefighting Lifts	120	Protected Corridor - Block E (Hub)	60
Protected Stairs - Block B2	120	Storage and Plant	60
Protected Stairs - Block A2	90	Refuse Stores	60
Protected Stairs - Block D and the Hub	60	Car Park	60
Passenger Lifts - Block A1 and B	120	Other Ancillary Accommodation	60
Passenger Lifts - Block D and the Hub	60	Rooms of special fire hazard (e.g. Generator room)	30
Passenger Lifts - Block C	90	Substation	120
Gym	60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
Service shafts and smoke shafts - A1 and B	120		loadbearing from both sides of the wall
Service shafts and smoke shafts - A2, D & E	60	External Walls more than 1m from Relevant Boundary	20 minutes loadbearing capacity and integri and 15 minutes insulation from the inside or

Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991.

Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer.

TO BE READ IN CONJUNCTION WITH: (07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings



#### Revisions Date

Rev By Details 26.02.24 C01 LM Issued for Final Construction

#### Periods of fire resistance for fire-separating elements (in minutes)

# FINAL CONSTRUCTION

Project KSB Plot 01

Client

Winvic Construction Ltd

#### Drawing Title Block A - L12,L14,L16 - Fire Strategy Plan Drawing No. Revision 2325-GHA-BA-12-DR-A-(07)0112 C01 Checked Scale Date Scale - 1 : 100@A1 JULY 21 RB/TS **Glenn Howells Architects** Birmingham London glennhowells.co.uk



![](_page_11_Figure_1.jpeg)

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## The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation compliance. The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-oordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022. MINIMUM COMPARTMENTATION

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required). The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design packages. STRUCTURE

Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural specification. Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

FACADE

All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's

report.				
Block	Top floor height (m)	Structural Fire Resistance Requirement		
A1	> 18.0	120 minutes		
A2	> 18.0	60 minutes		
В	> 18.0	120 minutes		
С	> 18.0	90 minutes		
D	18.0	60 minutes		

#### Fire Doors: Table 11

Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 S <sub>a</sub>	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 Sa	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 Sa	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 Sa	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sa	N/A
Lobby doors	FD 30S	E 30 Sa	Yes
Cross-corridor Doors	FD 30S	E 30 S <sub>a</sub>	Yes
Refuse stores	FD 30S	E 30 Sa	N/A
Stair A2 and D1	FD 30S	E 30 S <sub>a</sub>	Yes
Stair B2	FD 60S	E 60 S <sub>a</sub>	Yes
Door separating A1 & A2	FD 120S	E 120 S <sub>a</sub>	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 Sa	Yes
Other Ancillary Accommodation	FD 30S	E 30 Sª	Yes

## **Compartmentation Summary: Table 10**

Location	Fire Rating	Location	Fire Rating
Compartment Floors - Block A1 and B	120	Service shafts and smoke shafts - C	90
Compartment Floors - Block A2 and D	60	Retail Units	60
Compartment Floors - Block C	90	Walls separating apartments	60
Wall separating Cores A1 and A2	120	Duplex Internal Protected Stairs	30
Firefighting Stairs	120	Common Corridor	60
Firefighting Lifts	120	Protected Corridor - Block E (Hub)	60
Protected Stairs - Block B2	120	Storage and Plant	60
Protected Stairs - Block A2	90	Refuse Stores	60
Protected Stairs - Block D and the Hub	60	Car Park	60
Passenger Lifts - Block A1 and B	120	Other Ancillary Accommodation	60
Passenger Lifts - Block D and the Hub	60	Rooms of special fire hazard (e.g. Generator room)	30
Passenger Lifts - Block C	90	Substation	120
Gym	60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
Service shafts and smoke shafts - A1 and B	120		loadbearing from both sides of the wall
Service shafts and smoke shafts - A2, D & E	60	External Walls more than 1m from Relevant Boundary	20 minutes loadbearing capacity and integrity and 15 minutes insulation from the inside out

THE OTOFFIC AND ON CAN T BARACK
Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991.
Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991.

Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer.

For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings.

Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips.

DOORS

Lintels over doors to achieve same rating as wall.

All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

TO BE READ IN CONJUNCTION WITH: (07) - Fire Strategy Elevations
(22) - Internal Partitions Fire Engineer ReportStructural Engineer drawings

![](_page_11_Picture_22.jpeg)

![](_page_11_Picture_23.jpeg)

Location Key

![](_page_11_Figure_24.jpeg)

contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.

This drawing is the latest revision issued for construction under the building

#### Periods of fire resistance for fire-separating elements (in minutes)

# FINAL CONSTRUCTION

Project KSB Plot 01

Client

![](_page_11_Picture_31.jpeg)

![](_page_12_Figure_0.jpeg)

![](_page_12_Figure_1.jpeg)

DIMENSIONS NOT TO BE SCALED FROM THIS DRAWING. CONTRACTORS TO NOTIFY ARCHITECTS OF SITE VARIATIONS AFFECTING INFORMATION ON THIS DRAWING. THIS DRAWING IS COPYRIGHT OF GLENN HOWELLS ARCHITECTS.

## The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation compliance. The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-oordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022. MINIMUM COMPARTMENTATION

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required). The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design packages. STRUCTURE

Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural specification. Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

#### FACADE

GENERAL

All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

Structural Fire Resistance Requirement Refer to section 3.2 Structural Requirements of Fire Consultant's

report.				
Block	Top floor height (m)	Structural Fire Resistance Requirement		
A1	> 18.0	120 minutes		
A2	> 18.0	60 minutes		
В	> 18.0	120 minutes		
С	> 18.0	90 minutes		
D	18.0	60 minutes		

#### Fire Doors: Table 11

Location	Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
Firefighting stair doors	FD 60S	E 60 S <sub>a</sub>	Yes
Firefighting lift doors	FD 60	E 60	N/A
Front doors of flats	FD 30S	E 30 S <sub>a</sub>	Yes
Service Risers - Blocks A1, B & C	FD 60S	E 60 Sa	No, to be locked shut
Service Risers - Blocks A2, D & E	FD 30S	E 30 Sa	No, to be locked shut
Passenger Lift doors - Blocks A1, B & C	FD 60	E 60 Sa	N/A
Passenger Lift doors - Blocks A2 & D	FD 30	E 30 Sa	N/A
Lobby doors	FD 30S	E 30 Sa	Yes
Cross-corridor Doors	FD 30S	E 30 S <sub>a</sub>	Yes
Refuse stores	FD 30S	E 30 Sa	N/A
Stair A2 and D1	FD 30S	E 30 S <sub>a</sub>	Yes
Stair B2	FD 60S	E 60 S <sub>a</sub>	Yes
Door separating A1 & A2	FD 120S	E 120 Sa	Yes
Rooms of special fire hazard (e.g. Generator room)	FD 30S	E 30 Sa	Yes
Car Park	FD 30S	E 30 Sa	Yes
Other Ancillary Accommodation	FD 30S	E 30 Sª	Yes

## Compartmentation Summary: Table 10

Location	
Compartment Floo	ors - Block A1 and B
Compartment Floo	ors - Block A2 and D
Compartment Floo	ors - Block C
Wall separating Co	ores A1 and A2
Firefighting Stairs	
Firefighting Lifts	
Protected Stairs -	Block B2
Protected Stairs -	Block A2
Protected Stairs -	Block D and the Hub
Passenger Lifts - E	Block A1 and B
Passenger Lifts - E	Block D and the Hub
Passenger Lifts - E	Block C
Gym	
Service shafts and	smoke shafts - A1 and B
Service shafts and	l smoke shafts - A2, D & E

FIRE STOPPING AND/OR CAVITY BARRIER
Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991.
Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991.

Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer.

For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings.

Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips.

FIRE STOPPING AND/OR CAVITY BARRIER

Lintels over doors to achieve same rating as wall.

DOORS

All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

TO BE READ IN CONJUNCTION WITH: (07) - Fire Strategy Elevations
(22) - Internal Partitions

## Fire Engineer ReportStructural Engineer drawings

![](_page_12_Picture_23.jpeg)

![](_page_12_Picture_24.jpeg)

![](_page_12_Figure_25.jpeg)

contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.

This drawing is the latest revision issued for construction under the building

#### Periods of fire resistance for fire-separating elements (in minutes)

able	10

Fire Rating	Location	Fire Rating
120	Service shafts and smoke shafts - C	90
60	Retail Units	60
90	Walls separating apartments	60
120	Duplex Internal Protected Stairs	30
120	Common Corridor	60
120	Protected Corridor - Block E (Hub)	60
120	Storage and Plant	60
90	Refuse Stores	60
60	Car Park	60
120	Other Ancillary Accommodation	60
60	Rooms of special fire hazard (e.g. Generator room)	30
90	Substation	120
60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
120		
60	External Walls more than 1m from Relevant Boundary	20 minutes loadbearing capacity and integrity and 15 minutes insulation from the inside out

# FINAL CONSTRUCTION

Project KSB Plot 01

Client

![](_page_12_Picture_34.jpeg)

![](_page_13_Picture_0.jpeg)

#### Fire Rated Wall / Door **Rescue Service Access** Smoke Ventilation Systems Means of Escape 30 min. Fire Rated Wall Ventilated Lobby / Corridor Minimum clear opening required for fire strategy compliance 60 min. Fire Rated Wall - -Natural Inlet Shaft <del>/ /</del> (Minimum free cross-sectional area of 0.8m<sup>2</sup>) 90 min. Fire Rated Wall Mechanical Smoke Ventilation System (MSVS) 120 min. Fire Rated Wall Hob Clearance Zone (Minimum free cross-sectional area of 0.8m<sup>2</sup>) Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.2m<sup>2</sup>) FD30S Door Final Exit Door Permanently Ventilated Lobby or Suitable Mechnaical Alternative (0.4m<sup>2</sup>) FD60S Door Fire Escape Travel + - + Area ventilated via 1.5m<sup>2</sup> free area on Distance louvred final exit door FD90S Door Refuge Point 1.0 m<sup>2</sup> AOV at Head of Stairs ´ AOV ` FD120S Door Automatic Suppression System **Duplex Ceiling** Residential Category 2 Sprinkler System Continuous Vertical Fire Stop and/or Soffit cladding to Cavity Barrier achieve 30min FR in accordance with BS 9251 Ancillary Accomodation Category 3 Sprinkler System Fire stop to match the fire resistance as per $\sum$ associated fire-rated compartment wall/floor. in accordance with BS 9251 Cavity barrier should achieve a fire resistance of at least 30 minutes for integrity Retail Units & Basement Car Park and 15 minutes for insulation as per OH2 system Approved Document B. in accordance with BS EN 12845

#### Notes & Key

DIMENSIONS NOT TO BE SCALED FROM THIS DRAWING. CONTRACTORS TO NOTIFY ARCHITECTS OF SITE VARIATIONS AFFECTING INFORMATION ON THIS DRAWING. THIS DRAWING IS COPYRIGHT OF GLENN HOWELLS ARCHITECTS.

## The project Fire Strategy (and any Fire Statement) prepared by the Fire Consultant defines the project requirements for Part B Building Regulation compliance. The coordinating drawings provided by Glenn Howells illustrate with reasonable skill and care the requirements for architectural packages. This Fire Strategy Co-oordination Plan and Elevations are to be read in conjunction with the Fire Consultant's most current Fire Strategy Report. The version referenced for this co-ordination is BB7 Fire document reference BB-DFS-HIG00006-01-B Detailed Fire Strategy dated 14.10.2022. MINIMUM COMPARTMENTATION

In accordance with the relevant standard defined by the Fire Consultant under Building Regulations 2010 Approved Document B: Fire Safety Volume 1: Dwellings (2019 edition amended May 2020) and where applicable reference to BS 9991-2015 or BS 9999-2017; Refer to Table 10 of Fire Consultant's report for the minimum compartmentation requirement (difference in building heights to be considered as required). The fire rated compartmentation defined for floors and walls is to be met in the relevant package design including any contractor / sub-contractor design packages. STRUCTURE

Where an element of concrete structure is defined forming the compartmentation the Structural Engineer will provide the requirement in the structural specification. Load bearing elements of structure are defined in accordance Fire Consultant's Report and defined by the Structural Engineer.

FACADE

GENERAL

All external wall construction to comply with Regulation 7 in Approved Document B and to be A1 or A2-s1, d0 Euro classification unless noted in Regulation 7 (3) excluded items list.

Fire Tender

	Distance from Fire Appliance to Dry Riser Inlet (<18m)
Ο	Dry Riser Outlet
Ι	Dry Riser Inlet
WO	Wet Riser Outlet
WI	Wet Riser Inlet
	Fire Fighting Stair
	Fire Fighting Lift
• 🕄 🕂	Exit Arrow Down
۰£	Exit Arrow Right
S Besit	Exit Arrow Left

Exit Arrow Up

# FIRE STOPPING AND/OR CAVITY BARRIER

en 🕺 🏷

DOORS For vision panel, self-closing and door signage requirements refer to Glenn Howells door schedule and door elevations drawings. Lintels over doors to achieve same rating as wall.

Doors with a rating of 60min and over are to be fitted with combined smoke seals and intumescent strips. All doors to be Part M / BS8300 Compliant. Door installer / Sub-contractor to confirm compliance and all proposals subject to Building Control and Access Consultants approvals.

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							K (BY)	

Plot 1 Resident's Car Park For Block E Basement GA refer to Drawing: 2325-GHA-BE-B0-DR-A-(20)0169

Structural Fire Resistance Requirement

Refer to section 3.2 Structural Requirements of Fire Consultant's report.					
Block	Top floor height (m)	Structural Fire Resistance Requirement			
A1	> 18.0	120 minutes			
A2	> 18.0	60 minutes			
В	> 18.0	120 minutes			
С	> 18.0	90 minutes			
D	18.0	60 minutes			

#### Fire Doors: Table 11

Fire Resistance (National)	Fire Resistance (European)	Self-Closing Device Required
FD 60S	E 60 Sa	Yes
FD 60	E 60	N/A
FD 30S	E 30 Sa	Yes
FD 60S	E 60 Sa	No, to be locked shut
FD 30S	E 30 Sa	No, to be locked shut
FD 60	E 60 S <sub>a</sub>	N/A
FD 30	E 30 Sa	N/A
FD 30S	E 30 Sa	Yes
FD 30S	E 30 S <sub>a</sub>	Yes
FD 30S	E 30 Sa	N/A
FD 30S	E 30 S <sub>a</sub>	Yes
FD 60S	E 60 S <sub>a</sub>	Yes
FD 120S	E 120 Sa	Yes
FD 30S	E 30 Sa	Yes
FD 30S	E 30 Sa	Yes
FD 30S	E 30 S₅	Yes
	Fire Resistance         FD 60S         FD 60         FD 60         FD 60S         FD 60S         FD 60S         FD 60S         FD 60S         FD 70 30S         FD 30S	Fire Resistance         Fire Resistance           FD 60S         E 60 Sa           FD 60         E 60           FD 60         E 30 Sa           FD 60S         B 60 Sa           FD 60S         E 30 Sa           FD 60S         B 60 Sa           FD 60S         B 60 Sa           FD 60S         B 60 Sa           FD 30S         B 80 Sa           FD 102S         B 80 Sa           FD 102S         B 80 Sa           FD 30S         B 80 Sa           FD 30S         B 80 Sa           FD 120S         B 80 Sa           FD 30S         B 80 Sa

# Compartmentation Summary: Ta

Location	
Compartment I	Floors - Block A1 and B
Compartment I	Floors - Block A2 and D
Compartment I	Floors - Block C
Wall separating	g Cores A1 and A2
Firefighting Sta	airs
Firefighting Lift	ts
Protected Stair	rs - Block B2
Protected Stair	rs - Block A2
Protected Stain	rs - Block D and the Hub
Passenger Lift	s - Block A1 and B
Passenger Lift	s - Block D and the Hub
Passenger Lift	s - Block C
Gym	
Service shafts	and smoke shafts - A1 and B
Service shafts	and smoke shafts - A2, D & E

# Suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of BS 9991. Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridors, etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such barriers should meet the general recommendations of BS 9991.

Fire-stopping is to be provided in accordance with BS9991-2015 clause 24.4. Fire stopping between compartments is to meet the same requirement as the compartment wall or floor requirement. Fire stopping will be required between slab edges/party walls and the interfacing facade elements. Cavity barriers are to be provided in accordance with BS9991-2015 clause 19. Fire-stopping and cavity barriers are to be supplied by a third-party accredited manufacturer and to be installed by a third-party accredited installer.

TO BE READ IN CONJUNCTION WITH: (07) - Fire Strategy Elevations
(22) - Internal Partitions

Fire Engineer ReportStructural Engineer drawings

![](_page_13_Figure_32.jpeg)

![](_page_13_Figure_33.jpeg)

contract. This drawing has not been verified by site survey. Construction tolerances and installations may have resulted in differences between this drawing and the finished building. It should be read in conjunction with relevant sub-contractor drawings.

This drawing is the latest revision issued for construction under the building

![](_page_13_Picture_35.jpeg)

## Periods of fire resistance for fire-separating elements (in minutes)

Table	10

Fire Rating	Location	Fire Rating
120	Service shafts and smoke shafts - C	90
60 Retail Units		60
90	Walls separating apartments	60
120	Duplex Internal Protected Stairs	30
120	Common Corridor	60
120	Protected Corridor - Block E (Hub)	60
120	Storage and Plant	60
90	Refuse Stores	60
60	Car Park	60
120	Other Ancillary Accommodation	60
60	Rooms of special fire hazard (e.g. Generator room)	30
90	Substation	120
60	External Walls within 1m of Relevant Boundary	20 minutes integrity, insulation, and
120		20 minutes leadbasting capacity and intervity
60	External Walls more than 1m from Relevant Boundary	and 15 minutes insulation from the inside out

# FINAL CONSTRUCTION

Project KSB Plot 01

Client

Winvic Construction Ltd

#### Drawing Title Block A - B01 - Fire Strategy Plan Drawing No. Revision 2325-GHA-BA-B0-DR-A-(07)0099 C01 Checked Scale Date JULY 21 RB/TS Scale - 1 : 100@A1 **Glenn Howells Architects** Birmingham London glennhowells.co.uk

![](_page_14_Figure_0.jpeg)

Drawing Title						
Block A - North Elevation Fire Strategy						
Drawing No. Revision						
2325-GHA-B	A-ZZ-DR	-A-(07)0200	C03			
Scale		Date	Checked			
Scale - 1 : 100@A1 JULY 21			RB/TS			
Glenn Howells Architects						
Birmingham London glennhowells.co.uk						

![](_page_15_Figure_0.jpeg)

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Revision Checked

![](_page_16_Figure_0.jpeg)

DIMENSIONS NOT TO BE SCALED FROM THIS DRAWING. CONTRACTORS TO NOTIFY ARCHITECTS OF SITE VARIATIONS AFFECTING INFORMATION ON THIS DRAWING. THIS DRAWING IS COPYRIGHT OF GLENN HOWELLS

contractor	KEY		Location Rey	Revisions			
e stopping re strategy		Galv. angle around openings		Date	Rev	Ву	Details
of the fire		Rockwool Firestop Strip		45.07.04	504		
		Baskwash CDCO Firester		15.07.21	P01	LM	Stage 3 Issue
rtv		Rockwool SP60 Filestop		07.02.23	C01	GJ	Construction Issue. Minor update to
credited		Rockwool SP Firestop OSCB-25					cavity closers / annotations.
ciculted		······		24.02.23	C02	GJ/M	Construction issue. General update.
		Firestop for curtain walling - spec tbc.				vv	Specification of fire stopping added.
2). in	<b>- - - - - - - - - -</b>			26.02.24	C03	LM	Issued for Final Construction
	For fire stopping	position indicative only - for details refer	$\langle \rangle \langle \rangle \rangle \langle \rangle \rangle$				
	Ι	Dry Riser Inlet		This drawing contract. This tolerances ar	is the late drawing l d installat	st revisio nas not b ons may	n issued for construction under the building been verified by site survey. Construction have resulted in differences between this
	WI	Wet Riser Inlet		drawing and relevant sub-	the finishe contractor	d buildin drawing	g. It should be read in conjunction with s.

A-LPT 2 177050

1 Block A Block A1 - East Elevation Fire Strategy

## Notes & Key

DIMENSIONS NOT TO BE SCALED FROM THIS DRAWING. CONTRACTORS TO NOTIFY ARCHITECTS OF SITE VARIATIONS AFFECTING INFORMATION ON THIS DRAWING. THIS DRAWING IS COPYRIGHT OF GLENN HOWELLS ARCHITECTS.

#### Concealed Spaces (Cavities) and Fire Stopping

Where appropriate, suitable provisions should be made to prevent the unseen spread of fire and smoke through cavities or concealed spaces by the use of cavity barriers. The fire and smoke through cavities or concealed spaces by the use of cavity barriers. The provision of any such barriers should meet the general recommendations of Section 19 of BS 9991. Openings in any fire-separating element (e.g. compartment walls, cavity barriers, protected corridor etc.) should be protected with appropriate fire stopping or sealing to ensure that the fire resistance of the element is not compromised. The provision of any such protection should meet the general recommendations of Section 21 of BS 9991.

Fire strategy drawings to be read in conjunction with the fire consultant's report Ref: 221014 - Kent Street Birmingham - Detailed Fire Strategy - Rev B (document reference BB-DFS-HIG00006-01-B)

Fire doors leading to the outside will require external bulkhead lighting.

Drawing to be read in conjunction with GHA (07) series fire strategy plans.

All product specifications are provided by cladding sub-contractor and agreed with BB7. GHA takes no responsibility for fire stopping product specification. GHA responsibility is to provide fire strategy only on floor plan / elevation overlays and coordination of the fire strategy information provided by BB7.

Materials for fire stopping are to be supplied by third party accredited manufacturers and installed by third party accredited installers.

Facade construction to be non-combustible (class A1/A2), in accordance with approved Doc B Regulation 7.

![](_page_17_Figure_13.jpeg)

![](_page_17_Figure_14.jpeg)

For Block A2 East elevation refer to drawing 2325-GHA-BA-ZZ-DR-A-(07)0201

# FINAL CONSTRUCTION

Project KSB Plot 01

Client

Drawing Title		
Block A1 - Eas	t Elevation Fire St	rategy
Drawing No.		Revision
2325-GHA-BA-	ZZ-DR-A-(07)0203	C02
Scale	Date	Checked
Scale - 1 : 100@A	1 JAN 23	RB/TS

#### The Law

Building Regulation 38 is a requirement in England and Wales, placed on the person / organisation constructing a building, to provide fire safety information for the completed building to the person who will have responsibility for ongoing fire safety matters after the building is occupied.

The aim is to ensure that all necessary details on fire safety installations and performance requirements of the building is communicated to the owner, occupier and/or end user, so that the building can be correctly operated, managed and occupied safely.

The person responsible for the use of the building during its occupation has the responsibility to take what has been delivered to them and ensure that they provide a fire safe environment for the occupiers and visitors. The occupier needs information on the original fire design/strategy to be able to understand what has been provided and what implications there are for them in terms of running the building and maintaining the designed fire safety measures.

Regulation 38 links the Building Regulations to the Regulatory Reform (Fire Safety) Order 2005 (RRO) which places the responsibility of fire safety onto the 'responsible person'. The RRO imposes responsibility for fire safety to a named individual who has day-to-day control of premises. In a workplace, this is the employer and any other person who may have control of any part of the premises, e.g. the occupier or owner. In all other premises the person or people in control of the premises will be responsible. If there is more than one responsible person (e.g. a multi-occupied building), all must take reasonable steps to co-operate and coordinate with each other in order to manage the fire risk to the building and to people using the building, or its immediate surroundings.

Information provided in this Guide will enable the 'responsible person' to look at the relationship between how the building was built and how it is run. This combination of information can then inform the mandatory Fire Risk Assessment which will need to be carried out when the building is occupied.

#### **Fire Risk Assessment**

A Fire Risk Assessment (FRA) is a requirement of law and is necessary in virtually all buildings in England and Wales, other than domestic dwellings.

The 'responsible person' has a legal duty to ensure a suitable FRA is carried out on their premises and to focus on the fire safety of all Relevant Persons. That is, any person who may be lawfully on the premises, or in the immediate vicinity, who may be at risk from fire on the premises.

The FRA needs to pay particular attention to those at special risk and must include consideration of any dangerous substance liable to be on the premises. The FRA should identify risks that can be removed, or reduced and highlight the nature and extent of the general fire precautions that need to be taken.

The FRA should be constantly reviewed and should always be updated following any change in layout, processes or number of people using the building, or if you have had a near miss or small fire. It is good practice to review it at intervals not exceeding 12 months.

Responsible Person	
Date:	
Winvic Project Manager	
Date:	