Roehampton Restored Café & Bike Store		
Guidance Standard and Code	Approved Document B Vol 2	
Building Condition	New Build	
Number of Storey	1 (Ground Level)	
Building Height (Height of topmost occupied storey)	Less than 5m	
Evacuation Strategy	Simultaneous evacuation strategy	
Purpose Group	Group 4 (Shop and Commercial)	
Smoke ventilation	Not required or provided	
Sprinkler System	Not required (Building less than 30m)	

Note 1) Actual designed height to be confirmed by architect

Note 2) The design based on the following assumption:-

- 1. The building is a new single storey café and bike store.
- 2. The café area and the bike store will be under different tenancy.
- 3. Cafe and kiosk is occupied by the same tenant.
- 4. The entire roof belongs to the same occupier.

Requirement B2 : Internal Fire Spread (Linings)

All surface finishes should satisfy the following European Classifications (as per BS 13501-01:2018)

Small room of area not exceeding 30m² in a non-residential building - D-s3,d2

Other rooms (including garages) - C-s3,d2

Other circulation spaces - B-s3,d2

Requirement B3: Internal Fire Spread (Structure) Structure fire resistance 60 mins Purpose Group 4 Comparmentation Separation of different occupancies 60 mins Place with special fire hazard 30 mins Compartment floor Not required

Requirement B4: External Fire Spread	
Minimum distance between road, site boundary and adjacent building	Less than 6m
Designation of covering of roof based on the above distance	BRoof(t4)
Minimum fire resistance for external escape route	30 mins (integrity and loadbearing from inside)
Reaction to fire performance of external surface of wall	
Purpose Group 4	No specific provision in respect of the boundaries required
Cavity Barriers	Cavity barriers (E30, I15) to be provided in accordance with ADB Vol. 2, i.e. within external walls around openings, at junction with compartmentation lines and to subdivide extensive cavities.
PV Panel	Area with PV panels should be designed in accordance with RC62: Recommendations for fire safety with photovoltaic panel installations for guidance on planning, designing, installing, and maintaining the system, this inludes non-combustible substrate beneath te panels and isolator switches for use for the Fire Service.
Green roof	Where green roof is installed, the design and installation should refer to the document "Fire Performance of Green Roofs and Walls" published by the Department for Communities and Local Government (August 2013)
Notes:-	

(1) External Fire Spread Assessment will be carried out as part of the fire strategy development to determine the amount of unprotected openings permitted with respect to external fire spread to adjacent boundaries. Site plan should be issued identifying red line boundary.

Requirement B5 : Access and facilities for the fire services	
Maximum allowable floor area of any one storey in the building or any one storey in a compartment	No limit
Total floor area of building	Less than 2000 m ²
	15% or within 45m of every point on the projeicted plan area of the
Minimum requirement of position of access (% of perimeter)	building; whichever is the less onerous
Firefighting Shaft	Not required as the building is less than 18m in height
Fire Main	Not required as the building is less than 11m in height
	Should be provided within 90m of an entry point to the building and not
Fire Hydrant	more than 90m apart

Number of Occupancy

I TUITIDET OF	Occupancy	/		
Room Area		Floor Space factor	Designed number of	Total number of
			occupancy	occupancy
		Estimated by the number of		
Café Seating Area	81.77	seats	72	
Kitchen	33.29	7	5	02
Kiosk	12.26	Note 1	2	83
Office	4	6	1	
Staff	2.5	1	3	
Bicycle Hire	16.72	2	8	0
Bicycle Hire (Office)	0.85	6	1	9

Note 1: Assumption based on a maximum of 2 staffs working in the Kiosk area.

Note 2: Assumption based on a maximum of 2 Staff & 70 number of seats on the GA plan.

Note 3: Other area of the building is considered transient and not normally occupied.

Exit capacity

Zone	Number of occupancy	Minimum Number of Exits Required	Discounting Process	Storey exits after discounting one of the exits	Capacity
Café Seating Area	72	2 x 850mm	One of the exit door discounted	1 x 850mm	110
Kitchen	5	1 x 750 ^{Note 1} mm	-	1 x 750mm	60
Back of House Area	6	1 x 750 ^{Note 1} mm	-	1 x 750mm	60

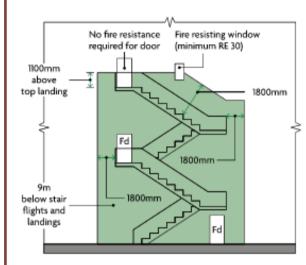
Note 1 Widths may need to be increased to meet guidance in Approved Document M.

	and Fire Alarm System:-
urpose Group 4	M (According to BS 5839-1)
afé BOH area	L3
laximum allowable travel distar	nce:-
urpose Group 4	
Ground Storey with a single exit	18
Storey with more than one exit	45
ace of special fire hazard ⁽¹⁾	
One-way	, 9
Two-way	18
ant room or roof-top plant	
stance within the room	
One-way	9
Two-way	35
scape route not in open air (Overall	travel distance)
One-way	18
Two-way	45
scape route in open air (Overall trav	vel distance)
One-way	60
Two-way	100
linimum width of escape stair	800mm

Note 01

A minimum of RE30 fire resisting construction is required for the building envelop within the following zones, measured from the flights and landings of the external stair.

- 1800mm above and horizontally
- 9m vertical below
- 1100mm above the top landing of the stair



Note 02

The room is designed as an inner room, and one of the following arrangement is required.

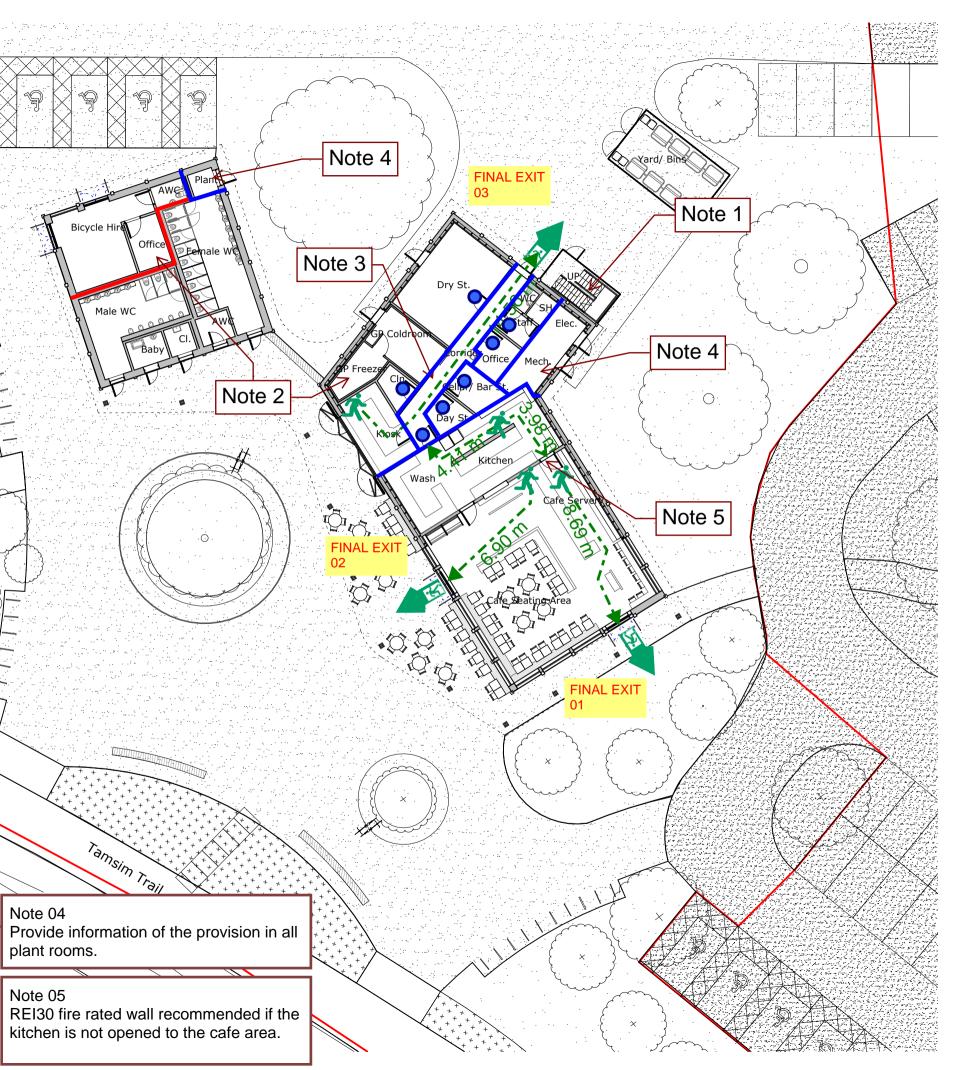
- i. The door or walls or the inner room contain a vision panel (minimum0.1sqm), so people can see if a fire start
- 0.1sqm), so people can see if a fire starts in the access room.
- ii. The access room is fitted with an automatic fire detection and alarm system to warn occupants of the inner room if a fire starts in the access room.

Note 03

If the Kiosk and BOH area is separated into different tenancy, then the following apply.

- a. The means of escape from each occupancy should not pass through any other occupancy.
- b. If a common corridor or circulation space is on the escape route, one of the following should apply.
- i. It should be a protected corridor.
- ii. A suitable automatic fire detection and alarm system should be installed throughout the storey.

A category L3 fire detection & alarm system is recommended for this area.



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discrepancies before commencing work.
All dimensions in millimetres unless otherwise

0 10m 1

KEY	PAGE 2 of 4	
	60 minutes fire-resistance	
	30 minutes fire-resistance	
4	Means of escape	
্রে	Final Storey exit	
	FD60S Fire Door with smoke seals	
0	FD 60 Fire Door	
•	FD30S Door with smoke seals	
0	FD 30 Fire Door	
	Fire fighting roadway route	

Scheme: Roehampton Restored Car		Cafe	
Document Reference:	Roehampton Restored (Fire Safety BV comment		
Job Number:	S24052670	Date:	19/07/2024
Mark-ups & Comments		Issue:	01
Drafted by: SP		(4)	U VE
Reviewed by: SK		D R	
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P2	03/07/24	Issue for information
P1	12/04/24	Draft Issue for Planning
Rev.	Date	Description

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roject

Roehampton Gate, Richmond Park

The Royal Parks

732-15-002

litle

Ground Floor Plan

Project and Drawing Number

IXC

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Note 1

-Based on the provided roof plan, it appears that some of the external escape routes are within 1,800mm of the external walls. Where an external escape route is beside an external wall of the building, that part of the external wall within 1,800mm of the escape route should be provided with a minimum of 30 minutes fire-resisting construction (integrity only-from inside the building), up to a height of 1,100mm above the ground level (including any openings, doors, windows, etc.).

-Alternatively wider external escape routes can be provided but it should be ensured that the width of the external egress path accommodate the number of occupants passing through the escape route (1,800mm + min. required escape width = approximately 2.55m clear width - To be confirmed once the final occupancy figure are confirmed by the design team). In this case, fire protection to the external walls would not be required.

General Note-1

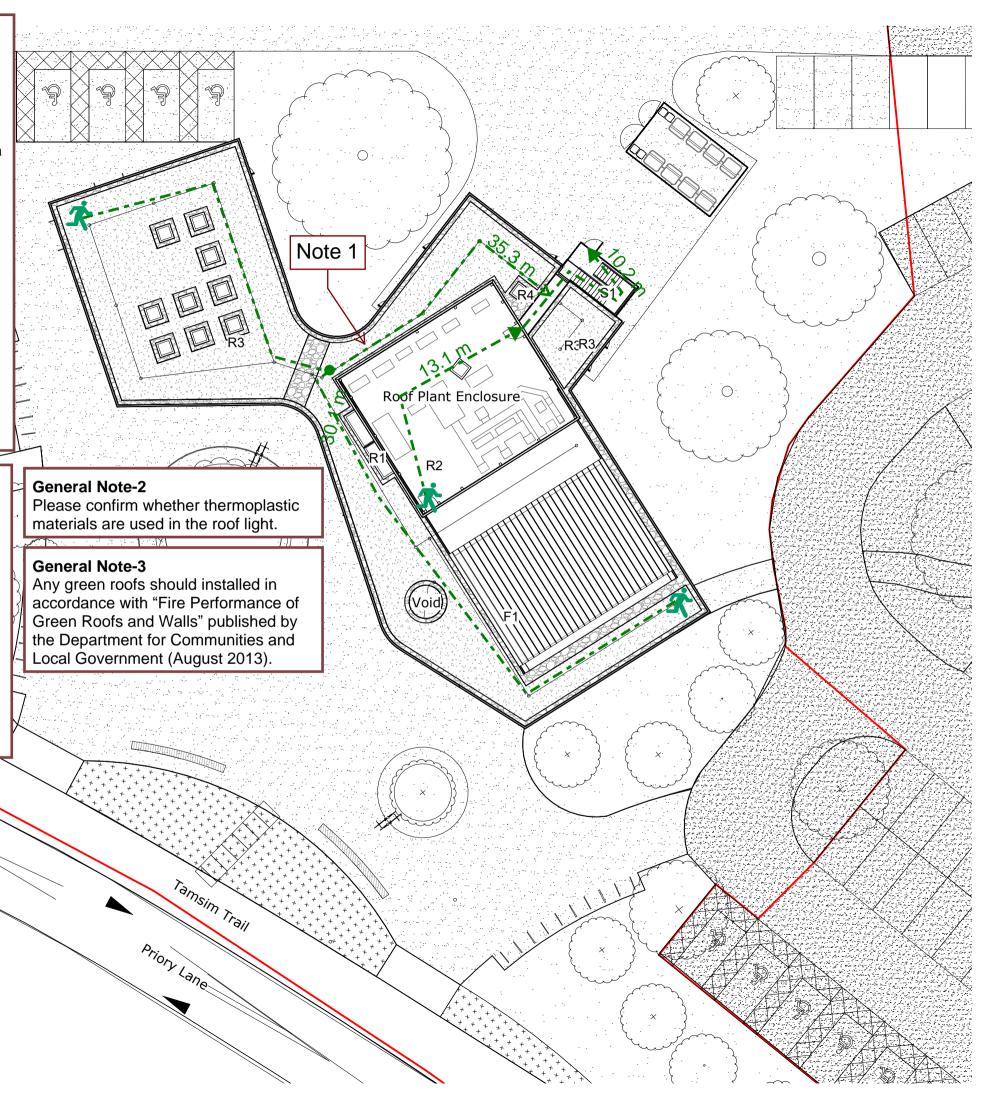
KEY

As confirmed PV panel is used. Although PV panel installations are not covered under Part B the Building Regulations, reference should be made to RC62: Recommendations for fire safety with photovoltaic panel installations for guidance on planning, designing, installing, and maintaining the system, which may also be expected by the client and / or their insurers.

This includes non-combustible substrate beneath the panels and isolator switches for use by the Fire Service.

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✓ Means of escape				ľ	
্রে		Final Storey exit			
===		Fire fighting roadway route			
		•			-
Scheme:	Roeha	ampton Restored Ca	fe		1
Document Reference:	Roehampton Restored Cat Fire Safety BV comments		fe		1
Job Number:	S24052670		Date:	19/07/2024	1
Mark-ups & Comments		Issue:	01	1	
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		10m	4

C1	Timber Cladding
D1	Aluminium glazed Main
	Extrance/ Exit Doors
D2	Timber Doors
D3	Folding Doors
D4	Steel Security Doors
F1	Fall Arrest/Restraint System
G1	Glulam columns
L1	Plant Enclosure Louvres
P1	Flexible Photovoltaic
R1	Roof Lights
R2	Bitumen Membrane Flat Roof
R3	Green Roof
R4	Sun Tunnels
S1	External Galvinised Steel Stairs
W1	Aluminium Window
W2	Motorised Ventilation Aluminium Window
Z1	Standing Seam Roof/ Cladding

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12/04/24

Roehampton Gate, Richmond Park

The Royal Parks

Roof Plan

Project and Drawing Number

732-15-003

12/04/2024

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