9.1 AFFORDABLE HOUSING TENURE MIX

In terms of tenure split, all London Affordable Rent units are contained within Core 1.

Core i.

Shared ownership units are located in Core 2 and on 1st floor of Core 3.

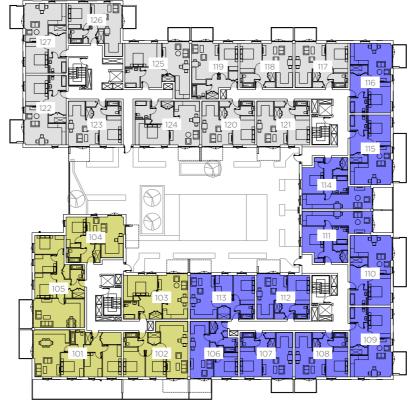
TENURE KEY

LONDON AFFORDABLE RENT 21

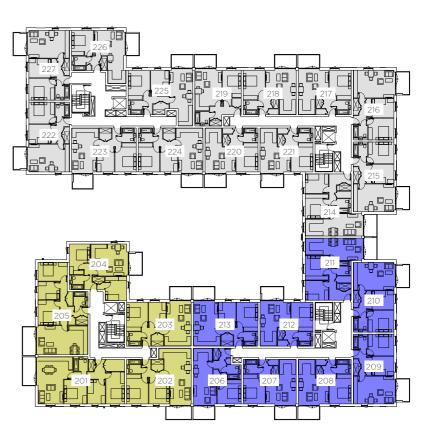
SHARED OWNERSHIP 35

MARKET 56

1st FLOOR



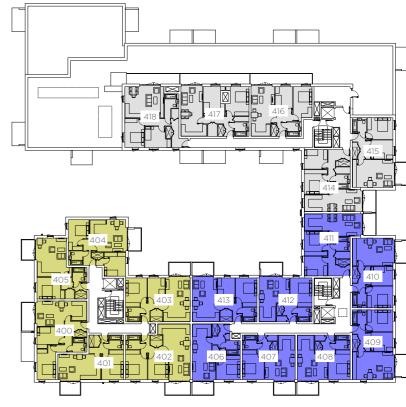
2nd FLOOR



3rd FLOOR



4th FLOOR

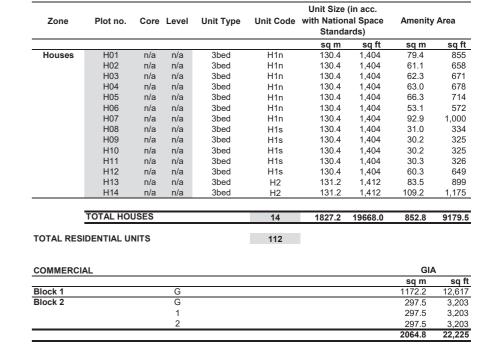




9.2 ACCOMMODATION SCHEDULE

Zone	Plot no.	Core	Level	Unit Type	Unit Code	Unit Size (i		Amenity	Area
20110	i lot ilo.	0010	LOVOI	Ome Type	Ollit Gode	Standar		ranomity	71100
Block 1	FIRST FLO	OR				sq m	sq ft	sq m	sq ft
	101	1	1	3bed	3A	86.1	927	45.3	488
	102	1	1	2bed	2A+	70.0	753	27.6	297
	103	1	1	1bed	W1	61.3	660	13.5	145
	104	1	1	1bed	1F	53.9	580	19.2	207
	105	1	1	3bed	3B	86.4	930	8.1	87
	106	2	1	1bed	1B	53.8	579	9.4	101
	107	2	1	1bed	1A	50.9	548	6.1	66
	108	2	1	1bed	1A	50.9	548	6.1	66
	109	2	1	1bed	W2	61.2	659	6.3	68
	110	2	1	1bed	W2	61.2	659	13.4	144
	111	2	1	1bed	W4	59.4	639	20.7	222
	112	2	1	1bed	1A	50.2	540	6.8	73
	113	2	1	2bed	2A	61.3	660	20.7	223
	114	3	1	1bed	W4	59.4	639	18.9	203
	114	3	1	1bed	W2	61.2	659	13.4	144
	116	3	1	1bed	W2	61.2	659	6.3	68
	117	3	1	1bed	1A	50.9	548	6.1	66
	117	3	1	1bed	1A 1A	50.9	548	6.1	66
	118	3	1	1bed	1C	50.9 51.1	548 550	6.1	66
		3	1						
	120		1	1bed	1A 1A	50.2	540	17.2	185 73
	121	3		1bed		50.2	540	6.8	
	122	4	1	1bed	W2	61.2	659	6.3	68
	123	4	1	1bed	1A	50.2	540	13.2	142
	124	4	1	1bed	W1	61.3	660	18.8	202
	125	4	1	1bed	W3	63.9	688	6.1	66
	126	4	1	1bed	1E	50.3	541	6.1	66
B	127	4	1	1bed	W2	61.2	659	6.3	68
Block 1	SECOND F		0	Ob and	0.4	sq m	sq ft	sq m	sq ft
	201 202	1 1	2	3bed	3A	86.1	927	8.1	87
		1	2	2bed	2A+	70.0	753	7.2	78
	203		2	2bed	2A	61.3	660	6.1	66
	204	1		2bed	2D	61.4	661	6.3	68
	205	1	2	3bed	3B	86.4	930	8.1	87
	206	2	2	1bed	1B	53.8	579	6.1	66
	207	2	2	1bed	1A	50.9	548	6.1	66
	208	2	2	1bed	1A	50.9	548	6.1	66
	209	2	2	2bed	2B	61.2	659	6.3	68
	210	2	2	2bed	2B	61.2	659	6.3	68
	211	2	2	2bed	2C	66.7	718	6.1	66
	212	2	2	1bed	1A	50.2	540	6.3	68
	213	2	2	2bed	2A	61.3	660	6.1	66
	214	3	2	2bed	2C	66.7	718	6.1	66
	215	3	2	2bed	2B	61.2	659	6.3	68
	216	3	2	2bed	2B	61.2	659	6.3	68
	217	3	2	1bed	1A	50.9	548	6.1	66
	218	3	2	1bed	1A	50.9	548	6.1	66
	219	3	2	1bed	1C	51.1	550	6.1	66
	220	3	2	1bed	1A	50.2	540	6.1	66
	221	3	2	1bed	1A	50.2	540	6.3	68
	222	4	2	2bed	2B	61.2	659	6.3	68
	223	4	2	2bed	2A	61.3	660	6.2	67
	224	4	2	2bed	2A	61.3	660	6.1	66
	225	4	2	2bed	2A-	63.9	688	6.1	66
	226	4	2	1bed	1E	50.3	541	6.1	66

Zone	Plot no.	Core	Level	Unit Type	Unit Code	Unit Size with Nation Standa	nal Space	Amenity	Area
Block 1	THIRD FLO	OR				sq m	sq ft	sq m	sq ft
	301	1	3	3bed	3A	86.1	927	8.1	87
	302	1	3	2bed	2A+	70.0	753	7.2	78
	303	1	3	2bed	2A	61.3	660	6.1	66
	304	1	3	2bed	2D	61.4	661	6.3	68
	305	1	3	3bed	3B	86.4	930	8.1	87
	306	2	3	1bed	1B	53.8	579	6.1	66
	307	2	3	1bed	1A	50.9	548	6.1	66
	308	2	3	1bed	1A	50.9	548	6.1	66
	309	2	3	2bed	2B	61.2	659	6.3	68
	310	2	3	2bed	2B	61.2	659	6.3	68
	311	2	3	2bed	2C	66.7	718	6.1	66
	312	2	3	1bed	1A	50.2	540	6.3	68
	313	2	3	2bed	2A	61.3	660	6.1	66
	314	3	3	2bed	2C	66.7	718	6.1	66
	315	3	3	2bed	2B	61.2	659	6.3	68
	316	3	3	2bed	2B	61.2	659	6.3	68
	317	3	3	1bed	1A	50.9	548	6.1	66
	318	3	3	1bed	1A	50.9	548	6.1	66
	319	3	3	1bed	1C	51.1	550	6.1	66
	320	3	3	1bed	1A	50.2	540	6.1	66
	320	3	3	1bed	1A 1A		540 540	6.3	68
	321	4	3		2B	50.2	659	6.3	68
				2bed		61.2			
	323	4	3	2bed	2A	61.3	660	6.2	67
	324	4	3	2bed	2A	61.3	660	6.1	66
DI I - 4	325	4	3	2bed	2A-	63.9	688	6.1	66
Block 1	FOURTH FI		4	Ol I	05	sq m	sq ft	sq m	sq ft
	400	1		2bed	2E	66.1	712	8.0	86
	401	1	4	1bed	1G	50.4	543	5.7	61
	402	1	4	2bed	2A+	70.0	753	7.2	78
	403	1	4	2bed	2A	61.3	660	6.1	66
	404	1	4	2bed	2D	61.4	661	6.3	68
	405	1	4	1bed	1H	52.6	566	5.7	61
	406	2	4	1bed	1B	53.8	579	6.1	66
	407	2	4	1bed	1A	50.9	548	6.1	66
	408	2	4	1bed	1A	50.9	548	6.1	66
	409	2	4	2bed	2B	61.2	659	6.3	68
	410	2	4	2bed	2B	61.2	659	6.3	68
	411	2	4	2bed	2C	66.7	718	6.1	66
	412	2	4	1bed	1A	50.2	540	6.3	68
	413	2	4	2bed	2A	61.3	660	6.1	66
	414	3	4	2bed	2C	66.7	718	6.1	66
	415	3	4	2bed	2B	61.2	659	6.3	68
	416	3	4	2bed	2F	61.1	658	13.9	150
	417	3	4	2bed	2G	70.3	757	15.6	168
	418	3	4	2bed	2H	70.6	760	12.0	129
						5872.2	63208.4	814.2	8763.7
						00:2.2	JUL 00.4	0:7.2	0:00.



SUMMARY

residential

227 4 2 2bed 2B 61.2 659 6.3	68	commercial
		SUM
TENURE KEY	ACCESIBILITY KEY	
LONDON AFFORDABLE RENT 21	STANDARD 101 BR M4(2) COMPATIBLE	block 1
SHARED OWNERSHIP 35	WHEELCHAIR 11	houses block 2
MARKET 56	BR M4(3) COMPATIBLE	SUM



GIA

GIA

892.6

12640.9 13525.6

2064.8 2303.7 14705.7 15829.3

11985.9 12654.0 1827.2 2165.2

14705.7 15829.3

GEA

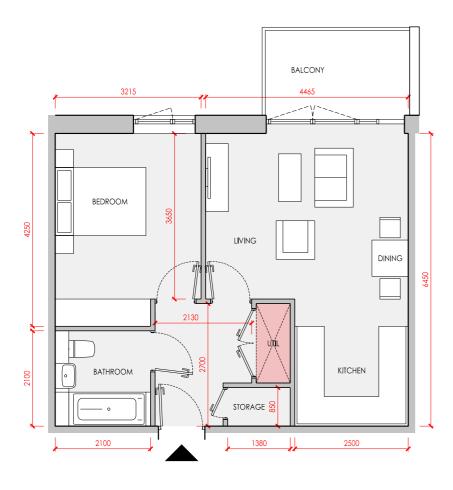
GEA

1010.1



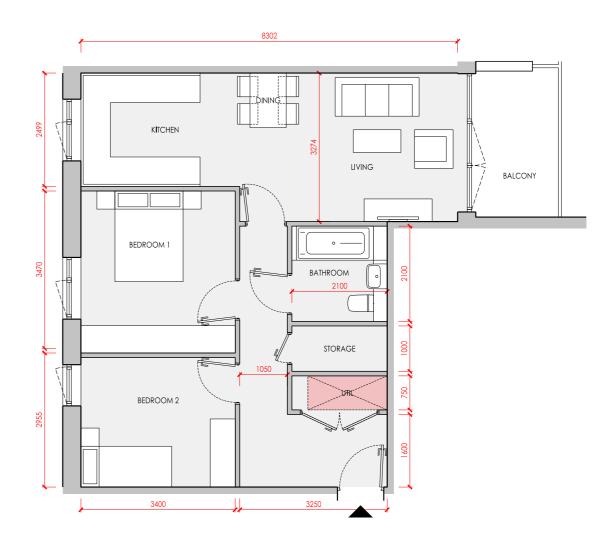
9.3 RESIDENTIAL UNIT TYPOLOGY





ROOM	AREA
LIVING + DINING + KITCHEN	23.9 m ²
BEDROOM	13.0 m ²
STORAGE	1.7 m ²
AMENITY	6.2 m ²



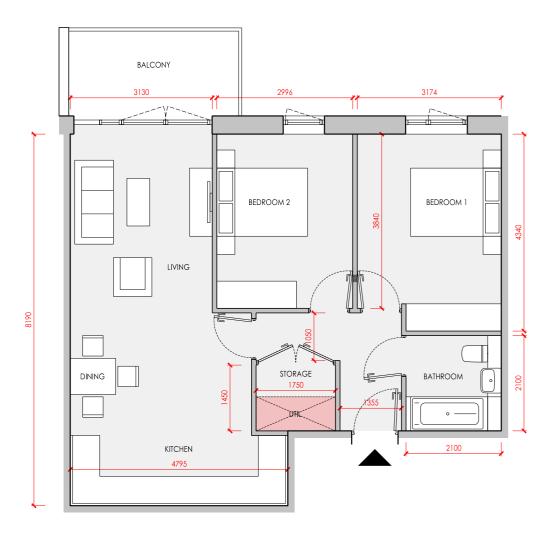


ROOM	AREA
LIVING + DINING + KITCHEN BEDROOM 1	25.1 m ² 12.0 m ²
BEDROOM 2	10.2 m ²
STORAGE	2.1m^2
AMENITY	6.1m^2



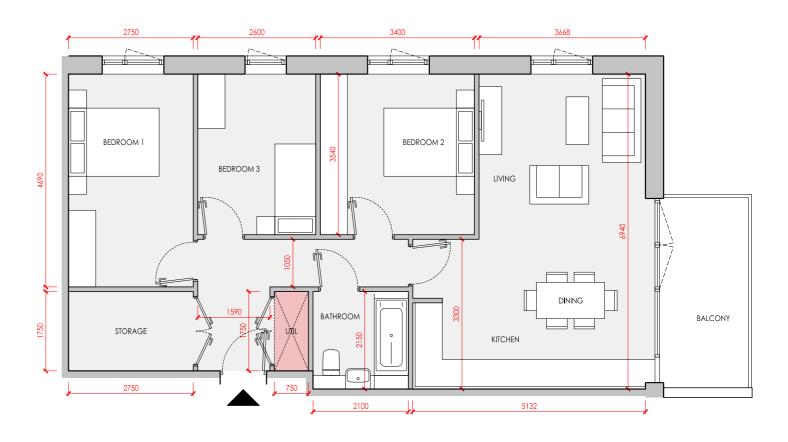
9.3 RESIDENTIAL UNIT TYPOLOGY





ROOM	AREA
LIVING + DINING + KITCHEN	31.2 m ²
BEDROOM 1	13.2 m ²
BEDROOM 2	11.5 m ²
STORAGE	2.5 m^2
AMENITY	7.1m^2





ROOM	AREA
LIVING + DINING + KITCHEN BEDROOM 1 BEDROOM 2 BEDROOM 3 STORAGE AMENITY	31.1 m ² 12.9 m ² 12.0 m ² 9.2 m ² 4.8 m ² 8.2 m ²



9.4 WHEELCHAIR ACCESSIBLE UNITS

The proposal is providing 11 wheelchair accessible flats (which is 10% of overall number of residential units in the scheme).

All accessible flats are located on the 1st floor of Block 1 and have level access to the podium deck. This way, they can take advantage of podium access to lifts in other cores, in the event that a lift in their core is out of service.

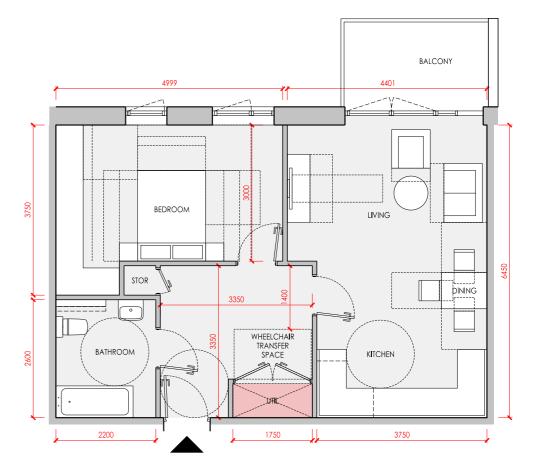
The proposed accessible units are spread across all three tenure types.

All wheelchair accessible flats comply with Building Regulations Part M4(3).









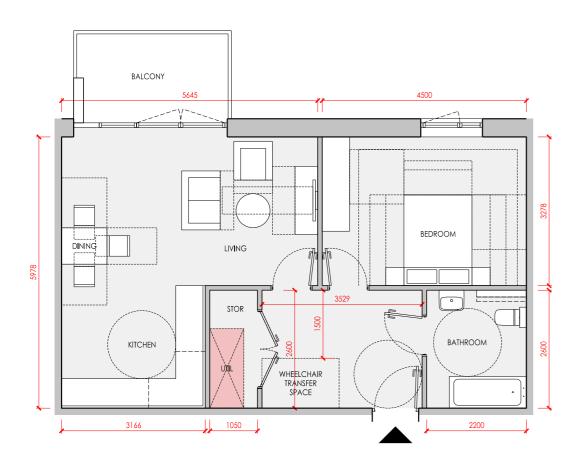
ROOM	AREA
LIVING + DINING + KITCHEN	26.1 m ²
BEDROOM	16.0 m ²
STORAGE	2.5 m ²
AMENITY	6.2 m ²





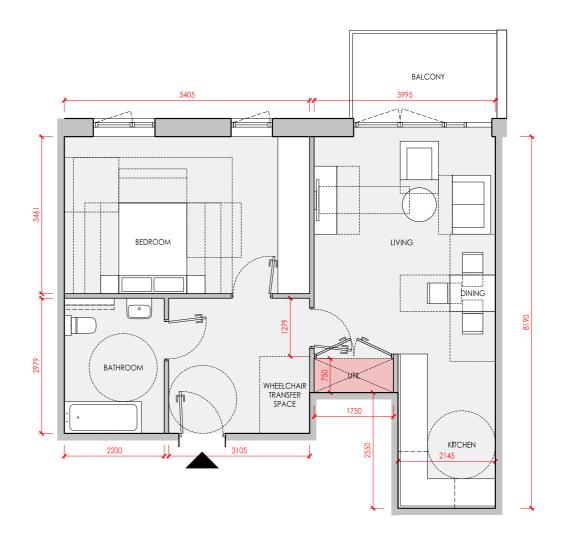
9.4 WHEELCHAIR ACCESSIBLE UNITS





ROOM	AREA
LIVING + DINING + KITCHEN	27.0 m ²
BEDROOM	14.7 m^2
STORAGE	1.9 m ²
AMENITY	6.3 m^2



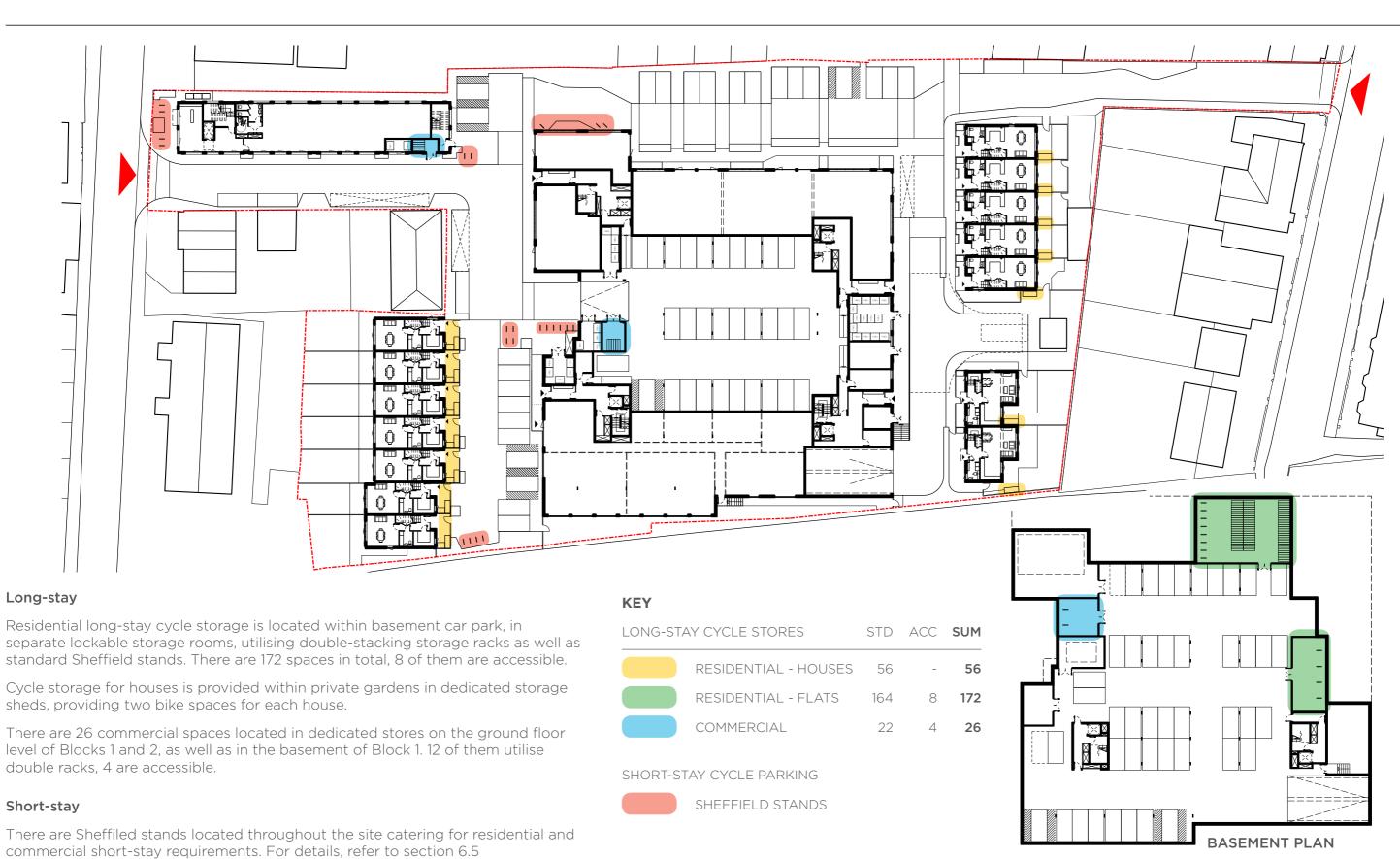


ROOM	AREA
LIVING + DINING + KITCHEN BEDROOM STORAGE AMENITY	26.4 m ² 18.7 m ² 1.6 m ² 6.2 m ²



9.5 CYCLE STORAGE STRATEGY









9.6 REFUSE AND DELIVERY STRATEGY





Refuse and recycling

There are three residential refuse stores within Block 1 to minimise travel distances from each core.

Additionally, there are two separate bin stores in each block dedicated to commercial refuse.

Each house has an individual refuse storage located in the front garden.

Council Requirements

(LBRuT Refuse and Recycling Storage Requirements SPD, April 2015)

HOUSES (3 BED)

Refuse - 240 litres Recycling - 2x 55 litres these will be provided in each front garden

FLATS

Refuse - 70 litres per bedroom Recycling - 2-6x 1100 l bins depending on number units using bin store

COMMERCIAL

Refuse - 1300 litres per 1000 m² GIA Recycling - 1300 litres per 1000 m² GIA

Servicing

There are two loading/servicing bays on each side of Block 1 to cater for commercial and residential requirements.

Additionally, dedicated servicing zones have been provided for the existing and proposed sub-station.

BINS CALCULATION

FLATS

	units	beds	refuse	recycling
Core 1	21	44	3× 11001	2x 11001
Core 2+3	61	85	6x 1100l	6x 1100l
Core 4	16	25	2x 11001	2x 11001

COMMERCIAL

	GIA [m²]	refuse	recycling
Block 1	1172.2	2x 11001	2x 1100
Block 2	892.6	1x 11001	1x 1100



1100 litre wheelie bins will be used

148



9.7 SERVICING STRATEGY

This strategy has been produced in order to demonstrate how the site will be served in order for residents to live comfortably and ensure that the development is kept in good repair.

The strategies outlined below have been formed on the basis that the development will be unmanned, with the costs incurred with servicing the site being recovered from residents, via payment of the annual service charge.

Postal

Individual externally secure post boxes for all 98 flats will be located within the ground floor lobby of each core.

In line with the guidance provided by the Crime Prevention Officer and by Royal Mail, the postman will gain access to each block via a programmed fob, with access restricted to the ground floor only.

The postman will be responsible for the distribution of mail to each post box.

Window cleaning

As each unit has the benefit of an external balcony, all residents will be able to clean external opening doors and windows independently.

The windows/doors which can not be accessed internally (i.e. stair core windows), will be cleaned by the facilities management team every quarter.

Due to both residential and commercial blocks being medium-rise there is no requirement for a building maintenance unit.

A hose and pole cleaning strategy can be implemented at ground level to clean the lower levels.

ManSafe system has been provided to allow for abseiling methods to clean the upper floors, which will be inspected in line with health and safety requirements.

Parking management

To prevent unauthorised parking by residents with multiple cars, all units will be provided with an assigned parking space.

Groundskeeping

The facilities management team will be responsible for undertaking the following actions:

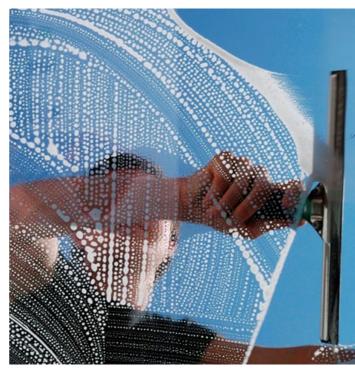
- Sweeping and litter picking
- Mowing of grassed areas
- Clipping and pruning of trees, hedges and shrubs
- Replacement of external light bulbs
- Re-planting (if required)
- Cleaning of bin stores

Dependant on seasons and weather conditions, as a minimum the above will be undertaken once a month.

External and internal maintenance

Internal and external maintenance will be reviewed annually by the management team and when required will be responsible for the procurement of maintenance services.













9.8 SECURED BY DESIGN

Integrated Approach

In preparing the layout, priority has been given to creating well lit public open spaces which can accommodate multiple uses, e.g. movement, recreation and parking. The lighting scheme will be designed to BS 5489, ensuring that good light levels are provided to all external highways, footpaths, communal and commercial seating areas, parking bays, doorways, storage rooms and internal circulation points. Consideration of crime prevention at the outset will avoid the need for installing physical measures at a later date.

Natural Surveillance

Clearly defined private defensible space has been provided to all houses and podium apartments through the use of planting and hedges.

All glazing to ground floor units and common ground floor glazed areas will have 6.4 mm laminated glass installed. Communal doors serving residential accommodation will comply with enhanced security specification PAS 24.

Open space and management

Public open spaces will be surrounded by apartments with principal frontages, therefore maximising natural surveillance.

Secured by Design



Official Police Security Initiative

Secured by Design review

The meeting with Secured by Design officer, Constable Ray Goodlett, was held on site on 17 September 2019.

The proposal was very well received and Mr Goodlett confirmed that the design in its current form has good potential to make the site selfpolicing.

Mr Goodlett has also made the following detailed observations:

- All 4 x communal entrances to the flats will have an airlock (as per the plans), with the front door to each core achieving LPS1175:SR2, the inner door can be an FD60, both doors to have an access controlled audio and video entry system.
- The 1st floor podium amenity space to have an access control system installed, an thumb turn on the inside is acceptable.
- Due to the permeability of the site, due diligence will have to be shown to the site being used as a cut through from Holly Road to Windmill Road.
- · Lighting scheme to be confirmed.
- Bin and postal strategy is acceptable
- Bike storage within the car park to be within a brick built building with an LPS1175:SR2 rated door.
- All Town houses & flats to have a PAS24:2016 door with 3rd party test certification fitted to the front entrance.
- All other accessible doors and windows to be PAS24:2016 with 3rd party test certification
- SMART meters to be installed for both electricity and gas.











9.9 M&E STRATEGY







9.10 ENERGY AND SUSTAINABILITY STRATEGY

Energy assessment summary

Silcock Dawson and Partners have been appointed by Notting Hill Genesis to provide an Energy Assessment for the proposed new development at St Clare Business Park, Richmond. This Energy Assessment is submitted as part of an application for full planning consent.

The dwellings occupy the majority of the floor area and will be designed to be energy efficient and incorporate the following key features:

- 1. The annual heating demand will be reduced by using insulation values better than the Notional Building, internal walls and floor slabs between the conditioned spaces and unheated internal spaces such as the residential entrance lobbies and refuse stores will be insulated. The target air permeability is 3.0 m³/hr/m².
- 2. The dwellings will have a balanced ventilation system with heat recovery and automatic summer bypass.
- 3. The dwellings will be provided with 100% low energy luminaires.

The commercial units will also be provided with energy efficient LED lighting with daylight compensation controls where appropriate, in addition fabric U-values will be better than the Notional Building values.

The London heat map has been consulted, and it is noted that the site is not close to an existing heat network and is over 700m away from the edge of the nearest heat map study area.

The site is within a developed suburban area with a large number of terraced and semidetached houses. The London heat map identifies the site location within an area of low heat density, it is therefore unlikely that a district heating network will be extended to development.

However, a communal heating system is proposed for the apartments, comprising a roof-mounted air source heat pump. The heat pump will be sized to ensure continuous operation and meet 100% of the annual heat demand.

As it is unlikely that a district-wide heating system will be implemented, it would be more efficient to serve the houses from individual heat pump systems, because of the higher distribution losses that would be expected from the increased pipework necessary at smaller pipe sizes.

The commercial units will be heated via reverse-cycle heat pumps that will also be used to provide comfort cooling.

A large PV array will be mounted on the roof of Block 1, with all power generated directed to the residential landlord supply. The total PV capacity for the development is predicted to be 67.2 kWp.

The energy efficiency measures reduce the residential emissions by 11%, with a further 36% reduction from the heat pumps serving the dwellings plus a 9% reduction from the photovoltaic panel installations, resulting in a total CO₂ reduction of 45% or 55 tonnes when SAP 10 emission rates are applied.

The energy efficiency measures from the commercial units are greater at 18%, with a further 22% reduction from the air source heat pump installations.

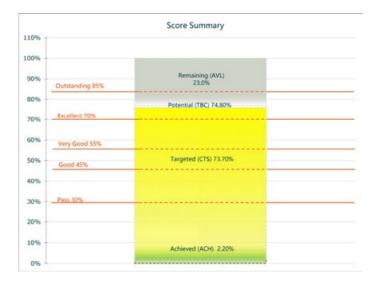
The total CO₂ reduction as a result of the energy efficiency measures across the whole development is predicted to be 18 tonnes CO₂ or 12% below the baseline model, with a total emissions reduction of 78 tonnes or 54% once renewable energy measures are incorporated.

Following a review of the relevant National and Local Planning Policies, this Energy Assessment proposes a strategy that positively responds to Policy 5.2 of the London Plan 2021, Policy SI2, SI3 of the ft London Plan 2021, and Policy LP22 Sustainable Design and Construction of the London Borough of Richmond upon Thames Local Plan (2017).

The zero carbon homes CO₂ offset payment is calculated to be £188,056 based on £95.00 / tonne over a 30 year period.

BREEAM pre-assessment summary

The project currently targets a score of 73.7% which equates to an EXCELLENT rating and the minimum standards to achieve this rating have been met.













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