BUILDING LIFECYCLE REPORT

PROPOSED DEVELOPMENT:

MIXED-USE DEVELOPMENT ON LANDS AT FORMER LEYDENS WHOLESALERS & DISTRIBUTORS DUBLIN



CLIENT:

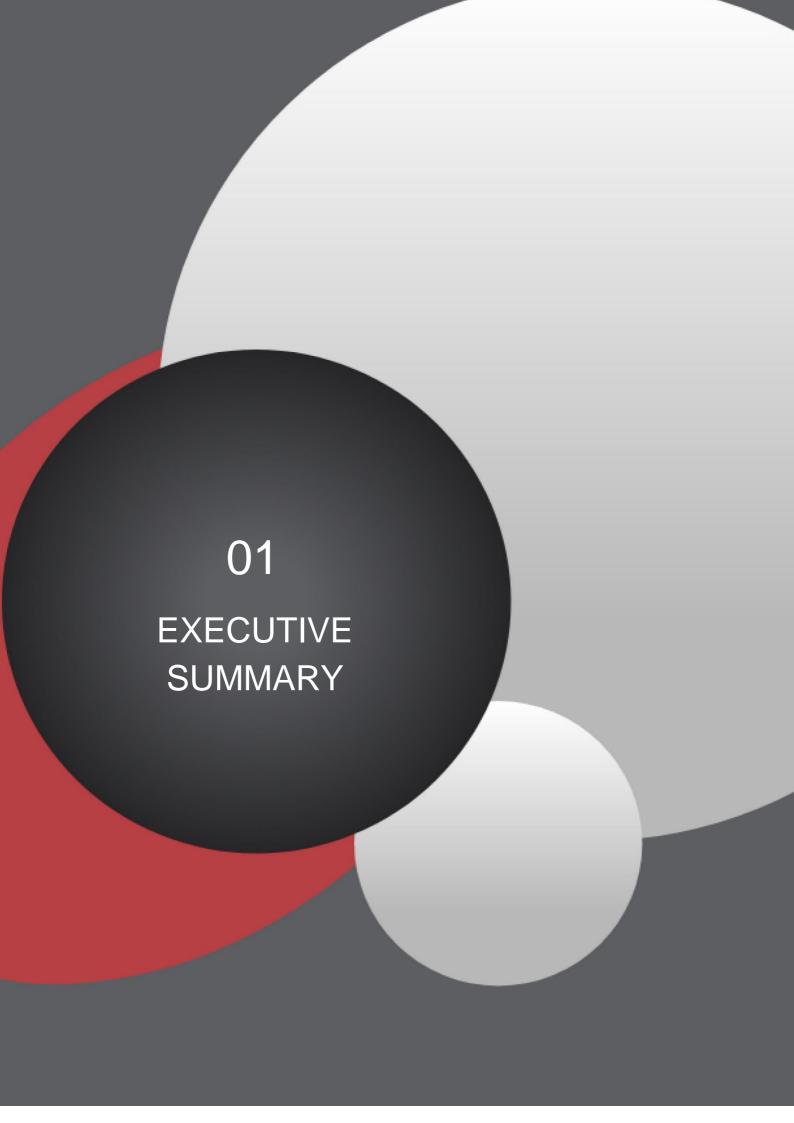
MALKEY LIMITED



TABLE OF CONTENTS

1	.0	EXECUTIVE SUMMARY – BUILDING LIFE CYCLE REPORT	4	
2.0		DEVELOPMENT DESCRIPTION	E	
3.0		INTRODUCTION	9	
4	.0	EXTERNAL BUILDING FABRIC SCHEDULE	11	
	4.1	Roofing	11	
	4.2	Rainwater Drainage	13	
	4.3	External Walls	14	
	4.4	External Windows & Doors	16	
	4.5	Balconies	16	
5.0		INTERNAL BUILDING FABRIC SCHEDULE	19	
	5.1	Floors	19	
	5.2	Walls	21	
	5.3	Ceilings	22	
	5.4	Internal Handrails & Balustrades	22	
	5.5	Carpentry & Joinery	22	
6	.0	BUILDING SERVICES	25	
	6.1	Mechanical Systems	25	
	6.2	Electrical / Protective Services	27	
7	.0	CONCLUSION & CONTACT DETAILS	33	
	Contact Details 33			
Α	Aramark Key Service Lines 33			
	DOCUMENT CONTROL SHEET 34			





1.0 EXECUTIVE SUMMARY – BUILDING LIFE CYCLE REPORT

Measures to effectively manage and reduce costs for the benefit of residents

The following document reviews the outline specification set out for the proposed largescale residential development on lands at Leydens Wholesalers & Distributors Dublin. This document explores the practical implementation of the design and material principles which has informed the design of roofs, facades, internal layouts and detailing of the proposed development and building typologies.

Building materials proposed for use on elevations and in the landscaped open space, achieve a durable standard of quality that will not need regular fabric replacement or maintenance. The choice of high quality and long-lasting materials overall, as well as both soft and hardscape in the site and public realm open space, will contribute to lower maintenance costs for future residents and occupiers.

Please note that detailed specifications of building fabric and services have not been provided at this stage. This report reflects the outline material descriptions contained within RKD Architects 'Architectural + Urban Design Statement' and planning drawings received.

For any elements where information was not available, typical examples have been provided of building materials and services used for schemes of this nature and their associated lifespans and maintenance requirements. All information is therefore indicative subject to further information at detailed design stage.

As the building design develops this document will be updated and a schedule will be generated from the items below detailing maintenance and replacement costs, in their constituent material parts, over the lifespan of the development. This will enable a robust schedule of building component repair and replacement costs which will be available to the property management company so that running, and maintenance costs of the development are kept within the agreed annual operational budget, this will take the form of a Planned Preventative Maintenance Schedule (PPM)* at operational commencement of the development.

*PPM under separate instruction



2.0 DEVELOPMENT DESCRIPTION

Malkey Limited intend to apply for permission for development (Large-scale Residential Development (LRD)) at this c. 0.55 hectare site at the former Leydens Wholesalers & Distributors, No. 158A Richmond Road, Dublin 3, D03 YK12. The site is bounded to the north-east by Richmond Road, to the west/south-west by No. 146A and Nos. 148-148A Richmond Road (pending application ABP Reg. Ref. TA29N.312352), to the south/south-west by a residential and commercial development (Distillery Lofts) and to the east/south-east by the Former Distillery Warehouse (derelict brick and stone building). Improvement works to Richmond Road are also proposed including carriageway widening up to c. 6 metres in width, the addition of a c. 1.5 metre wide one-way cycle track/lane in both directions, the widening of the northern footpath on Richmond Road to a minimum of c. 1.8 metres and the widening of the southern footpath along the site frontage which varies from c. 2.2 metres to c. 7.87 metres, in addition to a new signal controlled pedestrian crossing facility, all on an area of c. 0.28 hectares. The development site area and road works area will provide a total application site area of c. 0.83 hectares.

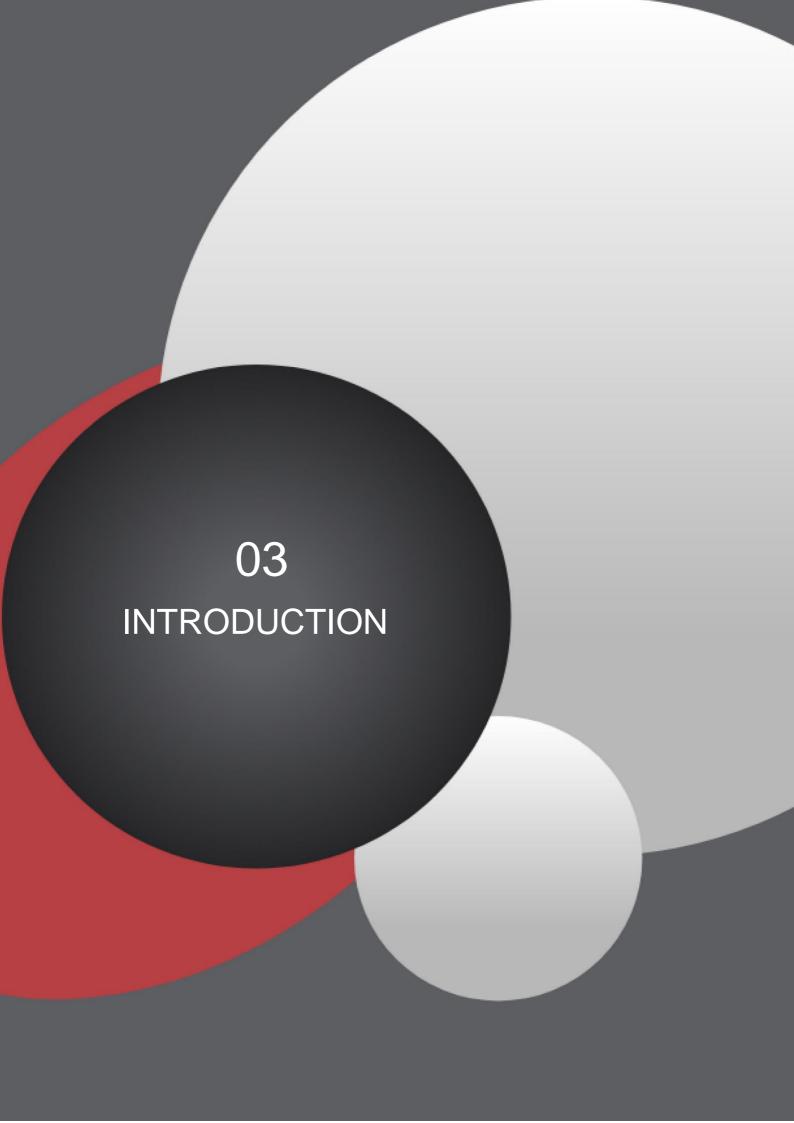
The proposed development will principally consist of: a Large-scale Residential Development (LRD) comprising the demolition of existing industrial structures on site (c. 3,359 sq m) and the construction of a mixed-use development including artist studios (c. 749 sq m), a creche (c. 156 sq m), a retail unit (c. 335 sq m), and a gym (c. 262 sq m), and 133 No. residential units (65 No. one bed apartments and 68 No. two bed apartments). The development will be provided in 3 No. blocks ranging in height from part 1 No. to part 10 No. storeys as follows: Block A will be part 1 No. storey to part 4 No. storeys in height, Block B will be part 1 No. storeys to part 10 No. storeys in height (including podium) and Block C will be part 1 No. storeys to part 9 No. storeys in height (including podium). The proposed development has a gross floor area of c. 14,590 sq m and a gross floor space of c. 13,715 sq m.

The development also proposes the construction of: a new c. 204 No. metre long flood wall along the western, southern and south-eastern boundaries of the proposed development with a top of wall level of c. 6.4 metres AOD to c. 7.15 metres AOD (typically c. 1.25 metres to c. 2.3 metres in height) if required; and new telecommunications infrastructure at roof level of Block B including shrouds, antennas and microwave link dishes (18 No. antennas enclosed in 9 No. shrouds and 6 No. transmission dishes, together with all associated equipment) if required. A flood wall and telecommunications infrastructure are also proposed in the adjoining Strategic Housing Development (SHD) application (pending decision ABP Reg. Ref. TA29N.312352) under the control of the Applicant. If that SHD application is granted and first implemented, no flood wall or telecommunications infrastructure will be required under this application for LRD permission (with soft landscaping provided instead of the flood wall). If the SHD application is refused permission or not first implemented, the proposed flood wall and telecommunications infrastructure in the LRD application will be constructed.



The proposed development also provides ancillary residential amenities and facilities; 25 No. car parking spaces including 13 No. electric vehicle parking spaces, 2 No. mobility impaired spaces and 3 No. car share spaces; 2 No. loading bays; bicycle parking spaces; motorcycle parking spaces; electric scooter storage; balconies and terraces facing all directions; public and communal open space; hard and soft landscaping; roof gardens; green roofs; boundary treatments; lighting; ESB substation; switchroom; meter room; comms rooms; generator; stores; plant; lift overruns; and all associated works above and below ground.





3.0 INTRODUCTION

Aramark Property have been instructed by Malkey Limited, to provide a Building Lifecycle Report for their large-scale residential development on lands at Leydens Wholesalers & Distributors Dublin, 158a Richmond Road, Dublin 3.

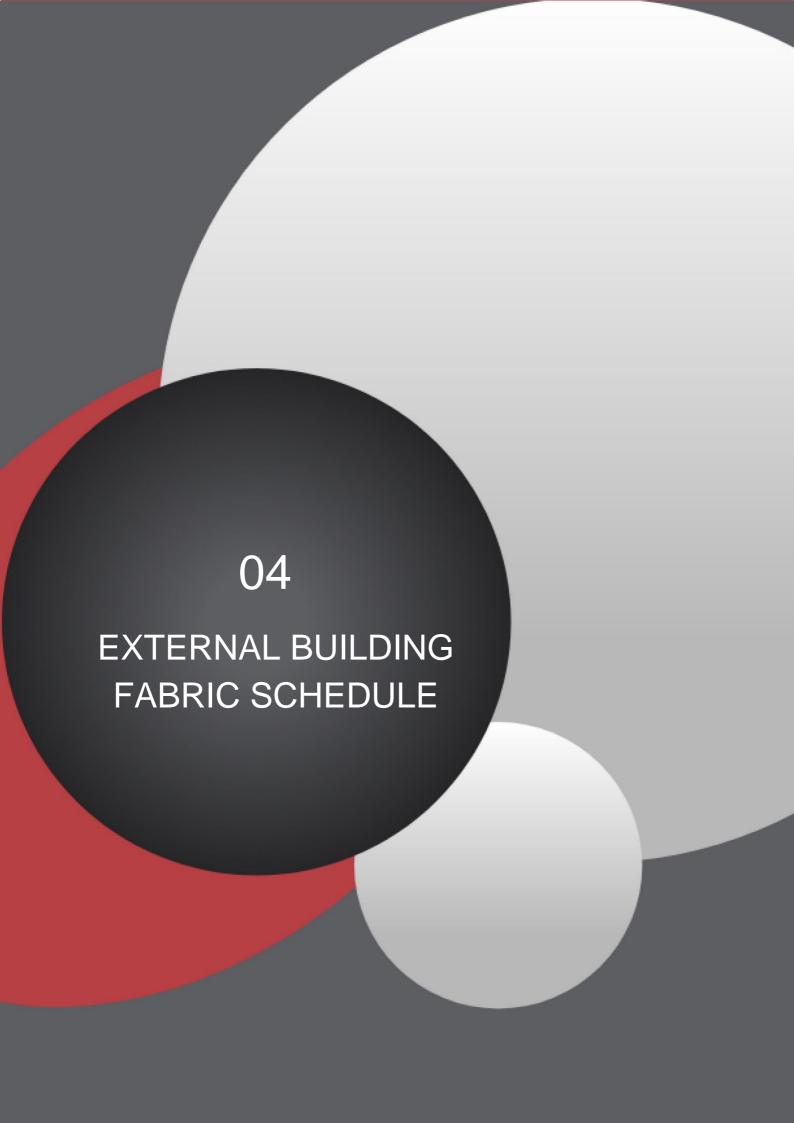
The purpose of this report is to provide an initial assessment of long-term running and maintenance costs as they would apply on a per residential unit basis at the time of application, as well as demonstrating what measures have been specifically considered to effectively manage and reduce costs for the benefit of the residents. This is achieved by producing a Building Lifecycle Report.

This Building Lifecycle Report has been developed on foot of the revised guidelines for Sustainable Urban Housing: Design Standards for New Apartments - Guidelines for Planning Authorities issued under Section 28 of the Planning and Development Act 2000 (as amended) December 2022. Within these guidelines, current guidance is being provided on residential schemes.

Section 6.12, Apartments and the Development Management Process, of the Sustainable Urban Housing: Design Standards for New Apartments (December 2022) requires that:

"...planning applications for apartment development shall include a building lifecycle report which in turn includes an assessment of long-term running and maintenance costs as they would apply on a per residential unit basis at the time of application, as well as demonstrating what measures have been specifically considered by the proposer to effectively manage and reduce costs for the benefit of residents."





4.0 EXTERNAL BUILDING FABRIC SCHEDULE

4.1 Roofing

4.1.1 Flat Roofs (Manufacturer / Supplier TBC)

Location	Selected Flat Roof Areas (maintenance access only)
Description	Single layer membrane roof system to engineer's specification. Selected membrane and pressed metal cappings
Lifecycle	Average lifecycle of 15-25 years on most membrane roofs. Lifecycle will be extended with robust proven detailing to adjoining roof elements and appropriate and regular maintenance of the roof materials.
Required maintenance	Half-yearly maintenance visits to include inspection of membrane material for puncture / cracks on sheeting; seams and flashing details; around drainage and ventilation outlets and removal of any vegetation/moss blockages to prevent ponding.
Year	Half-Yearly / Annual
Priority	Medium
Selection process	A membrane roof with appropriate built-up system will provide durability, lacks water permeability, and easily maintain without shutting down building operations during application.
Reference	RKD Architects 'Architectural + Urban Design Statement' and planning drawings.

4.1.2 Green Roofs (Manufacturer / Supplier TBC)

Location	Selected Flat Roof Areas (maintenance access only)
Description	Extensive green roof system to engineer's specification.
Lifecycle	As used across the industry nationally and in the UK, long lifecycle typically achieved by robust detailing to adjoining roof elements, regular inspection and maintenance regime to ensure the upkeep of roofing product / materials.
Required maintenance	Quarterly maintenance visits to include inspection of drainage layer and outlets and removal of any blockages to prevent ponding. Inspection of vegetation layer for fungus and decay. Carry out weeding as necessary. No irrigation necessary with sedum blankets.
Year	Quarterly
Priority	Medium
Selection process	A green roof will add to the character of the overall scheme, as well as providing attenuation to storm water run-off and less burden on rainwater goods, increased thermal and sound insulation to the building and increased biodiversity. Natural soft finishes can provide visual amenity for residents where roof areas are visible or accessible from within areas of the scheme. Sedum roofs are a popular and varied choice for green roofs requiring minimal maintenance.
Reference	RKD Architects 'Architectural + Urban Design Statement' and planning drawings.

4.1.3 Roof Terraces (Manufacturer / Supplier TBC)

Location	Terrace Roof
Description	 Light weight precast concrete/stone paving slabs on support system. Resin bound gravel surfacing. Roof build-up to architects' and engineers' instructions.
Lifecycle	Average lifecycle of 30 years. As used across the industry nationally and the UK, typically longer lifecycle is achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required maintenance	Regular maintenance visits to include inspection of drainage outlets and removal of any blockages. General repair works, watching out for displacement of slabs, mortar decay and removal of organic matter. Power-washing of hard surfaces.
Year	Quarterly / annual
Priority	Medium
Selection process	Paving slabs provide a robust and long-lasting roof terrace surface, requiring considerably less maintenance when compared to timber decking or gravel surfaces.
Reference	RKD Architects 'Architectural + Urban Design Statement' and planning drawings.

4.1.5 Fall Arrest System for Roof Maintenance Access

Location	Flat roof areas to all blocks (maintenance access only)
Description	 Fall Protection System on approved anchorage device. Installation in accordance with BS 7883:2019 (Anchor System designed to protect people working at height) by the system manufacturer or a contractor approved by the system manufacturer.
Lifecycle	25-30 years dependent on quality of materials. Generally, steel finishes to skyward facing elements can be expected to maintain this life expectancy. As used across the industry nationally and the UK, long lifecycle is typically achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required maintenance	Check and reset tension on the line as per manufacturer's specifications. Check all hardware components for wear (shackles, eye bolts, turn buckles). Check elements for signs of wear and/or weathering. Lubricate all moving parts. Check for structural damage or modifications.
Year	Annually
Priority	High
Selection process	Fall protection systems are a standard life safety system, provided for safe maintenance of roofs and balconies where there is not adequate parapet protection. Fall protection systems must comply with relevant quality standards.
Reference	N/A

4.1.6 Roof Cowls

Location	Selected Flat Roof Areas
Description	Roof Cowl System to be supplied with weather apron for flat roofs.
Lifecycle	25-35 years. As used across the industry nationally and the UK, typically



	longer lifecycle is achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required maintenance	Check fixings annually, inspect for onset of leading-edge corrosion if epoxy powder coat finish and treat.
Year	Annually
Priority	Low
Selection process	Standard fitting for roof termination of mechanical ventilation system.
Reference	N/A

4.1.7 Flashings

Location	All flashing locations
Description	Lead to be used for all flashing and counter flashings.
Lifecycle	Typical life expectancy of 70 years recorded for lead flashings. Recessed joint sealing will require regular inspections. Longer lifecycle achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required maintenance	Check joint fixings for lead flashing, ground survey annually and close-up inspection every 5 years. Re-secure as necessary.
Year	Ground level inspection annually and close-up inspection every 5 years
Priority	Medium
Selection process	Lead has longest life expectancy of comparable materials such as copper (60 years) and zinc (50 years). Provided appropriate safety precautions are taken, lead is the recommended choice for large residential, commercial, or industrial builds. Lead is easily formed into the required shapes for effective weathering of building junctions according to standard Lead Sheet Association details.
Reference	N/A

4.2 Rainwater Drainage

Location	All buildings
Description	 Rainwater outlets: Suitable for specified roof membranes Pipework: Cast aluminium downpipes/uPVC downpipes Below ground drainage: To Engineers' design and specification Disposal: To surface water drainage to Engineers' design Controls: To Engineers' design and specification Accessories: allow for outlet gradings, spigots, downspout nozzle, hopper heads, balcony and main roof outlets
Lifecycle	Metal gutters and downpipes have an expected life expectancy of 40 years in rural and suburban conditions (25 years in industrial and marine conditions), this is comparable to cast iron of 50 years and plastic, less so at 30 years. As used across the industry nationally and the UK, typically longer lifecycle is achieved by regular inspection and



Required maintenance	maintenance regime to ensure the upkeep of materials. As with roofing systems routine inspection is key to preserving the lifecycle of rainwater systems. Regular cleaning and rainwater heads and gutters, checking joints and fixings and regularly cleaning polyester coated surfaces (no caustic or abrasive materials).
Year	Annually, cleaning bi-annually
Priority	High
Selection process	As above, metal fittings compare well against cast iron (in terms of cost) and plastic (in terms of lifespan and aesthetic).
Reference	N/A

4.3 External Walls

4.3.1 Brick (Manufacturer / Supplier TBC)

Location	Apartments and Houses
Description	Contrasting light and dark buff tone brickwork.
Lifecycle	When permanently exposed to coastal environments, selected colour bricks have a high embodied energy and are an extremely durable material. Brickwork in this application is expected to have a lifespan of 50-80 years. The mortar pointing however, has a shorter lifespan of 25-50 years. Longer lifecycle achieved by regular inspection and maintenance regime.
Required maintenance	In general, given their durability and longevity, brickwork finishes require little maintenance. However, where sea salt build-up on brickwork is visible, routine brushing with controlled wash-down required as part of maintenance regime. Most maintenance is preventative: checking for hairline cracks, deterioration of mortar, plant growth on walls, or other factors that could signal problems or lead to eventual damage.
Year	Annual
Priority	Medium
Selection process	Aesthetic, lightweight, cost-efficient and low maintenance cladding option, indistinguishable from traditional brick construction.
Reference	RKD Architects 'Architectural + Urban Design Statement' and planning drawings.

4.3.2 Stone (Manufacturer / Supplier TBC)

Location	Architectural stone cladding
Description	Stonework in this application is expected to have a lifespan of 80 years. The mortar pointing however, has a shorter lifespan of 25-50 years. Longer lifecycle achieved by regular inspection and maintenance regime.
Lifecycle	Lifespan expectancy generally in excess of 40 years. As used across the industry nationally and the UK, typically longer lifecycle is achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required	In general stonework requires little maintenance. Most maintenance is



maintenance	preventative: checking for hairline cracks, vegetation growth on
	facades, or other factors that could signal problems or lead to eventual
	damage.
Year	Inspection annually; cleaning 5 yearly
Priority	Low
Selection	Stone is a durable product which is chosen for its structural and
process	aesthetic properties.
Reference	RKD Architects 'Architectural + Urban Design Statement' and planning
	drawings.

4.3.3 Render (Manufacturer / Supplier TBC)

Location	Façades (Apartments and mixed-use)
Description	Sand-cement render at select locations.
Lifecycle	Provides high levels of water repellence. Ideal for areas exposed to harsh weather conditions for its superior protection against weathering, damp and algae growth. Renders in general are expected to have a lifecycle of circa 45 years. Any sea salt build-up on render, require routine brushing with controlled wash-down. Longer lifecycle achieved by regular inspection and maintenance regime.
Required maintenance	Most maintenance is preventative: checking for hairline cracks and sea salt staining, deterioration of render and de-bonding due to age and weathering, or other factors that could signal problems or lead to eventual damage. Coloured silicone render requires less maintenance than traditional renders.
Year	Annually
Priority	Medium
Selection process	Appropriate detailing will contribute to a long lifespan for this installation. Render is a durable and low-maintenance finish with the added benefit of this product being British Board of Agrément (BBA) certified against other render systems.
Reference	RKD Architects 'Architectural + Urban Design Statement' and planning drawings.

4.3.4 Concrete (Manufacturer / Supplier TBC)

Location	Façades
Description	 Concrete cill to selected colour. Concrete coping to match brickwork colour. Concrete cladding to selected colour around balcony.
Lifecycle	While concrete has a high embodied energy, it is an extremely durable material. As used nationwide and in the UK, typically longer lifecycle is achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required maintenance	In general concrete requires little maintenance. Most maintenance is preventative: checking for hairline cracks, vegetation growth on facades, or other factors that could signal problems or lead to eventual damage.



Year	Annual
Priority	Low
Selection process	Concrete is a durable product which is chosen for its structural properties, aesthetic, cost efficiency and rapid construction.
Reference	N/A

4.4 External Windows & Doors

External W	External windows & Doors	
Location	Façades	
Description	 Full height, mixture of clear and obscure glazed windows with uPVC / Aluminum painted timber coated frames to select finish. All units to be double glazed with thermally broken frames. All opening sections in windows to be fitted with suitable restrictors. Include for all necessary ironmongery; include for all pointing and mastic sealant as necessary; fixed using stainless steel metal straps screwed to masonry reveals; include for all bends, drips, flashings, thermal breaks etc. 	
Lifecycle	Aluminium clad timber has a typical lifespan of 45-60 years in comparison to uPVC which has a typical lifespan of 30-40 years. As used nationwide and in the UK, typically longer lifecycle is achieved by regular inspection and maintenance regime to ensure the upkeep of materials.	
Required maintenance	Check surface of windows and doors regularly so that damage can be detected. Vertical mouldings can become worn and require more maintenance than other surface areas. Lubricate at least once a year. Ensure regular cleaning regime. Check for condensation on frame from window and ensure ventilation.	
Year	Annual	
Priority	Medium	
Selection process	uPVC is durable and low maintenance with an average lifespan of 30 - 40 years. Alu-clad timber windows compare favorably when compared to the above, extending timber windows typical lifespan of 35-50 years by 10-15 years.	
Reference	N/A	

4.5 Balconies

4.5.1 Structure

Location	Apartment block façades
Description	 Powder-coated aluminum frame balcony system to engineer's design and specification suitable for coastal environments. Thermally broken Farrat plate (or similar approved) connections to main structure of building to engineer's design and specification suitable for coastal environments.
Lifecycle	 Metal structure has a typical life expectancy of 70 years dependent on maintenance of components. In general, given their durability and longevity, metal finishes require little maintenance. However, where sea salt build-up on metal finishes is visible, routine brushing with controlled wash-down required as part of maintenance regime. As used across the industry nationally and the UK, longer lifecycle is achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required maintenance	Check balcony system as per manufacturer's specifications. Check all hardware components for wear. Check elements for signs of wear



	and/or weathering. Check for structural damage or modifications.
Year	Annual
Priority	High
Selection	Engineered detail; designed for strength and safety.
process	
Reference	N/A

4.5.2 Balustrades and Handrails

Location	Apartment Block Balconies	
Description	 Colour coated metal balustrades and railings. Fixing in accordance with manufacturer's details to engineer's design and specification suitable for coastal environments. 	
Lifecycle	Metal structure has a typical life expectancy of 70 years dependent on maintenance of components.	
	• In general, given their durability and longevity, metal finishes require little maintenance. However, where sea salt build-up on metal finishes is visible, routine brushing with controlled wash-down required as part of maintenance regime.	
	Longer lifecycle is achieved by regular inspection and maintenance regime to ensure the upkeep of materials.	
Required maintenance	Annual visual inspection of connection pieces for impact damage or alterations.	
Year	Annual	
Priority	High	
Selection process	Metal option will have a longer lifespan and require less maintenance than timber options (10-20 years).	
Reference	RKD Architects 'Architectural + Urban Design Statement' and planning drawings.	





5.0 INTERNAL BUILDING FABRIC SCHEDULE

5.1 Floors

5.1.1 Common Areas

Location	Entrance lobbies / Common corridors
Description	Selected anti-slip porcelain or ceramic floor tile complete with inset matwell.
	Selected loop pile carpet tiles.
Lifecycle	Lifespan expectation of 20-25 years in heavy wear areas, likely requirement to replace for modernisation within this period also.
	 10-15 year lifespan for carpet. Likely requirement to replace for modernisation within this period also.
Required	Visual inspection with regular cleaning, intermittent replacement of
maintenance	chipped / loose tiles
Year	Annual for floor tiles.
	Quarterly inspection and cleaning of carpets as necessary
Priority	Low
Selection	Durable, low maintenance floor finish. Slip rating required at entrance
process	lobby, few materials provide this and are as hard wearing. Using carpet
•	allows flexibility to alter and change as fashions alter and change
	providing enhanced flexibility.
Reference	N/A

Location	Stairwells, landings / half landings
Description	Selected carpet covering. Approved anodised aluminium nosings to
	stairs.
Lifecycle	 10-15 year lifespan for carpet. Likely requirement to replace for modernisation within this period also.
	20-year lifespan for aluminium nosings.
Required	Visual inspection with regular cleaning.
maintenance	
Year	Quarterly inspection and cleaning as necessary.
Priority	Low
Selection	Using carpet allows flexibility to alter and change as fashions alter and
process	change providing enhanced flexibility.
Reference	N/A

Location	Lift Lobbies
Description	Carpet/vinyl and porcelain tiles to match adjacent apartment
	common lobbies.
Lifecycle	 Lifespan expectation of 20-30 years in heavy wear areas, likely requirement to replace for modernisation within this period also. 10-15 year lifespan for carpet. Likely requirement to replace for modernisation within this period also.
Required	Visual inspection with regular cleaning, intermittent replacement of
maintenance	chipped / loose tiles.
Year	Annual
Priority	Low
Selection process	Slip rating required for lifts, few materials provide this and are as hard wearing. Using carpet allows flexibility to alter and change as fashions alter and change providing enhanced flexibility.
Reference	N/A

5.1.2 Resident / Tenant Areas

Location	General	
Description	 Timber laminate / parquet flooring, or Carpet covering Provide for inset matwell 	
Lifecycle	 Laminated / parquet timber flooring has an expected life expectancy of 25-35 years dependent on use 10-15 year lifespan for carpet. Likely requirement to replace for modernisation within this period also 	
Required	Visual inspection. Sweep clean regularly ensuring to remove any dirt.	
maintenance	Clean up spills immediately and use only recommended floor cleaners.	
Year	Annual	
Priority	Low	
Selection	Materials chosen for aesthetics, durability and low maintenance.	
process		
Reference	N/A	

Location	All wet areas (e.g., WC's)
Description	Selected anti-slip ceramic floor tile.
Lifecycle	Lifespan expectation of 20-25 years in heavy wear areas, likely requirement to replace for modernisation within this period also.
Required	Visual inspection, intermittent replacement of chipped / loose tiles.
maintenance	
Year	Annual
Priority	Low
Selection	Slip rating required at entrance lobby, few materials provide this and
process	are as hard wearing.
Reference	N/A



5.2 Walls

5.2.1 Common Areas

Location	Entrance lobbies / Corridors
Description	Selected paint finish with primer to skimmed plasterboard.
Lifecycle	2-10 years for finishes; 40 years for plasterboard. Longer lifecycle achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required	Regular maintenance required and replacement when damaged.
maintenance	
Year	Bi-annually
Priority	Low
Selection	Decorative and durable finish.
process	
Reference	N/A

Location	Lift cores / lobbies / corridors / stairs
Description	Selected paint finish with primer to skimmed plasterboard.
Lifecycle	2-10 years for finishes; 40 years for plasterboard. Longer lifecycle achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required	Regular maintenance required and replacement when damaged.
maintenance	
Year	Bi-annually
Priority	Low
Selection	Decorative and durable finish.
process	
Reference	N/A

5.2.2 Resident / Tenant Areas

Location	General
Description	Selected paint finish with primer to skimmed plasterboard
Lifecycle	2-10 years for finishes; 40 years for plasterboard. Longer lifecycle achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required	Regular maintenance required and replacement when damaged.
maintenance	
Year	Bi-annually
Priority	Low
Selection	Decorative and durable finish.
process	
Reference	N/A

Location	Wet areas (e.g. WC's)	
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Description	Selected ceramic wall tile to plasterboard (moisture board to wet areas).
Lifecycle	Typical life expectancy of 35-40 years, less in wet room areas to 20-25
	years.
Required	Bi-annual inspection to review damage, local repairs as necessary,
maintenance	particular detailed inspection in wet room areas.
Year	Annually
Priority	Medium
Selection	Wet room application requires moisture board and tiling.
process	
Reference	N/A

5.3 Ceilings

Location	Common areas & resident / tenant areas
Description	Selected paint finish with primer to skimmed plasterboard ceiling on
	metal frame ceiling system. Acoustic ceiling to lift core and apartment
	lobbies. Moisture board to wet areas.
Lifecycle	2-10 years for finishes; 40 years for plasterboard. Longer lifecycle
	achieved by regular inspection and maintenance regime to ensure the
	upkeep of materials.
Required	Regular maintenance required and replacement when damaged.
maintenance	
Year	Bi-annually
Priority	Low
Selection	Decorative and durable finish
process	
Reference	N/A

5.4 Internal Handrails & Balustrades

Location	Stairs & landings
Description	Mild steel painted balustrade and handrail.
Lifecycle	Over 40 years typical lifecycle. Longer lifecycle achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required	Regular inspections of holding down bolts and joints
maintenance	
Year	Annually
Priority	High
Selection	Hard-wearing long-life materials against timber options
process	
Reference	N/A

5.5 Carpentry & Joinery

5.5.1 Internal Doors and Frames

Location	All buildings
Description	Selected white primed and painted/varnished solid internal doors, or hardwood veneered internal doors
	All fire rated doors and joinery items to be manufactured in accordance with B.S. 476 (Fire Tests). Timber saddle boards.



	Brushed aluminium door ironmongery or similar
Lifecycle	30 years average expected lifespan. Longer lifecycle achieved by regular inspection and maintenance regime to ensure the upkeep of materials.
Required	General maintenance in relation to impact damage and general wear
maintenance	and tear
Year	Annual
Priority	Low, unless fire door High
Selection	Industry standard
process	
Reference	N/A

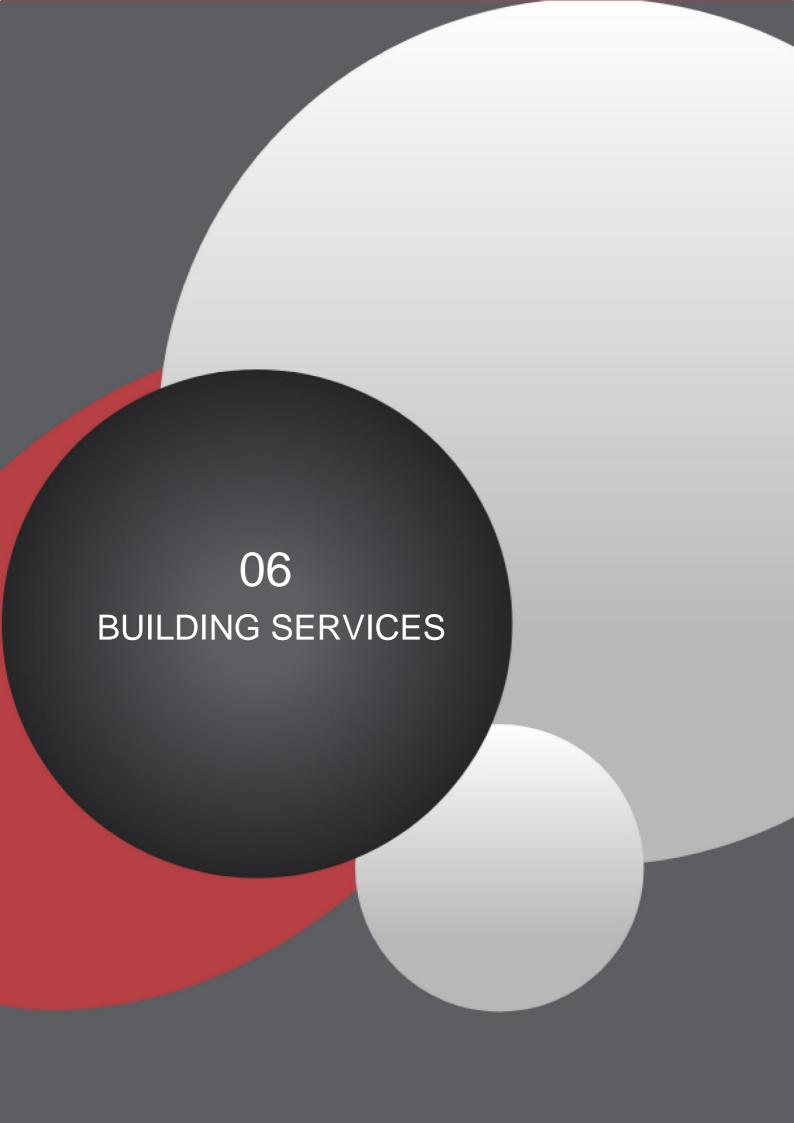
5.5.2 Skirtings & Architraves

Location	All buildings
Description	Painted timber / Medium-density fibreboard (MDF) skirtings and
	architraves
Lifecycle	30 years average expected lifespan. Longer lifecycle achieved by
	regular inspection and maintenance regime to ensure the upkeep of
	materials.
Required	General maintenance in relation to impact damage and general wear
maintenance	and tear
Year	Annual
Priority	Low
Selection	Industry standard
process	
Reference	N/A

5.5.3 Window Boards

Location	All Buildings
Description	Painted timber / Medium-density fibreboard (MDF) window boards
Lifecycle	30 years average expected lifespan
Required	General maintenance in relation to impact damage and general wear
maintenance	and tear
Year	Annual
Priority	Low
Selection	Industry standard
process	
Reference	N/A





6.0 BUILDING SERVICES

6.1 Mechanical Systems

6.1.1 Mechanical Plant

Location	Residential / Apartments
Description	Water Heating is proposed to consist of Exhaust Air Heat Pumps,
	(EAHP) within each Apartment.
	Further details to be provided by the M&E Consultant at detailed design
	stage.
Lifecycle	Annual Maintenance / Inspection of Exhaust Air Heat Pumps
	 Annual Maintenance / Inspection to Heating and Water Pumps.
	Annual Maintenance / Inspection to Water Tanks.
	Annual Maintenance / Inspection to Water Booster - sets.
	Annual Maintenance / Inspection to DHS Tanks.
	Cost for replacement equipment to be updated on completion of
	design matrix of equipment at detailed design stage.
	Replacement of equipment at End of Life (EOL) to be determined at
	detailed design stage.
Required	Annual Service Inspections to be included as part of Development
maintenance	Planned Preventative Maintenance (PPM) Programme
Year	Annually
Priority	Medium
Selection	All equipment to be detailed as part of the detailed design section of the
process	development. This equipment will be selected in conjunction with the
	design and management team to meet and exceed the Chartered
	Institution of Building Services Engineers of Ireland's (CIBSE)
	recommended lifecycles.
Reference	N/A

Location	Non-Residential and Common Areas
Description	Water Heating shall consist of Air Source Heat Pumps, (ASHP). Further details to be provided by the M&E Consultant at detailed design stage.
Lifecycle	 Annual Maintenance / Inspection of Air Source Heat Pumps Annual Maintenance / Inspection to Heating and Water Pumps. Annual Maintenance / Inspection to Water Tanks. Annual Maintenance / Inspection to Water Booster - sets. Annual Maintenance / Inspection to DHS Tanks. Cost for replacement equipment to be updated on completion of design matrix of equipment at detailed design stage. Replacement of equipment at End of Life (EOL) to be determined at detailed design stage.
Required maintenance	Annual Service Inspections to be included as part of Development Planned Preventative Maintenance (PPM) Programme
Year	Annually
Priority	Medium
Selection process	All equipment to be detailed as part of the detailed design section of the development. This equipment will be selected in conjunction with the

	design and management team to meet and exceed the Chartered
	Institution of Building Services Engineers of Ireland's (CIBSE)
	recommended lifecycles.
Reference	N/A

6.1.2 Soils and Wastes

Location	All Areas / Kitchens / Bathrooms etc
Description	Soils and Wastes Pipework – uPVC and High-Density Polyethylene (HDPE)
Lifecycle	Annual inspections required for all pipework within landlord areas.
	Cost for replacement equipment to be updated on completion of
	design matrix of equipment at detailed design stage.
Required	Annual Service Inspections to be included as part of Development
maintenance	Planned Preventative Maintenance (PPM) Programme
Year	Annually
Priority	Medium
Selection	All equipment to be detailed as part of the detailed design section of
process	the development. This equipment will be selected in conjunction with
	the design and management team to meet and exceed the Chartered
	Institution of Building Services Engineers of Ireland's (CIBSE)
	recommended lifecycles.
Reference	N/A

6.1.3 Water Services

Location	Residential / Apartments
Description	 Exhaust Air Heat Pump (EAHP) for domestic Hot Water The water services installation in the Landlord and core areas will be copper. Within the apartments, the water services installation will be completed using a Pre-Insulated Multi Layered Alu-Plex type system.
Lifecycle	 Annual Inspection of Exhaust Air Heat Pump (EAHP). Annual inspections required for all pipework within landlord areas. Cost for replacement equipment to be updated on completion of design matrix of equipment at detailed design stage.
Required	Annual Inspections, including legionella testing to be included as part
maintenance	of Development Planned Preventative Maintenance (PPM) Programme
Year	Annually
Priority	High
Selection	All equipment to be detailed as part of the detailed design section of the
process	development. This equipment will be selected in conjunction with the
	design and management team to meet and exceed the Chartered
	Institution of Building Services Engineers of Ireland's (CIBSE)
	recommended lifecycles.
Reference	N/A

6.1.4 Ventilation Services



Location	Residential / Apartments
Description	All-in-one Exhaust Air Heat Pumps, (EAHP)
	Cooker Hoods shall be installed in the kitchens.
Lifecycle	Annual inspection of Exhaust Air Heat Pumps (EAHP)
	Annual inspection of extract fans and grilles
	Annual Inspection of operation of fan and boost / setback facility if
	provided on units.
	Cost for replacement equipment to be updated on completion of
	design matrix of equipment at detailed design stage.
Required	Annual Service Inspections to be included as part of Development
maintenance	Planned Preventative Maintenance (PPM) Programme
Year	Annually
Priority	Medium
Selection	All equipment to be detailed as part of the detailed design section of the
process	development. This equipment will be selected in conjunction with the
	design and management team to meet and exceed the Chartered
	Institution of Building Services Engineers of Ireland's (CIBSE)
	recommended lifecycles.
Reference	N/A

6.2 Electrical / Protective Services

6.2.1 Electrical Infrastructure

Location	Switch rooms / Risers
Description	Maintenance of Electrical Switchgear
Lifecycle	 Annual Inspection of Electrical Switchgear and switchboards. Thermographic imagining of switchgear 50% of Medium Voltage (MV) Switchgear Annually and Low Voltage (LV) switchgear every 3 years. Cost for replacement equipment to be updated on completion of design matrix of equipment at detailed design stage.
Required	Annual / Every three years to be included as part of Development
maintenance	Planned Preventative Maintenance (PPM) Programme
Year	Annually
Priority	High
Selection	All equipment to meet and exceed Electricity Supply Board (ESB),
process	IS10101:2020, Chartered Institution of Building Services Engineers of
	Ireland's (CIBSE) recommendations and be code compliant in all cases.
Reference	N/A

6.2.2 Lighting Services internal

Location	All Areas – Internal
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Description	Lighting – Light-Emitting Diode (LED) throughout with Presence
	detection in circulation areas and locally controlled in apartments.
Lifecycle	Annual Inspection of All Luminaires
	Quarterly Inspection of Emergency Lighting.
	Cost for replacement equipment to be updated on completion of
	design matrix of equipment at detailed design stage.
Required	Annual / Quarterly Inspections certification as required per above
maintenance	remedial works.
Year	Annually / Quarterly
Priority	High
Selection	All equipment to meet requirements and be in accordance with the
process	current IS3217:2013 + A1 2017, Part M and Disability Access
	Certificate (DAC) Requirements.
Reference	N/A

6.2.3 Lighting Services External

Location	All Areas – Internal
Description	Lighting – All Light-Emitting Diode (LED) with Vandal Resistant
	Diffusers where exposed.
Lifecycle	Annual Inspection of All Luminaires
	Quarterly Inspection of Emergency Lighting
	Cost for replacement equipment to be updated on completion of
	design matrix of equipment at detailed design stage.
Required	Annual / Quarterly Inspections certification as required as per the
maintenance	Planned Preventative Maintenance (PPM) schedule.
Year	Annually / Quarterly
Priority	High
Selection	All equipment to meet requirements and be in accordance with the
process	current IS3217:2013 + A1 2017, Part M and Disability Access
	Certificate (DAC) Requirements.
Reference	N/A

6.2.4 Protective Services – Fire Alarm (Apartments Only)

Location	All areas – Internal
Description	Fire alarm
Lifecycle	 Quarterly Inspection of panels and 25% testing of devices as per IS3218:2013 + A1 2019 requirements.
	Cost for replacement equipment to be updated on completion of design matrix of equipment at detailed design stage.
Required	Annual / Quarterly Inspections certification as required as per the
maintenance	Planned Preventative Maintenance (PPM) schedule.
Year	Annually / Quarterly
Priority	High
Selection	All equipment to meet requirements and be in accordance with the
process	current IS3218:2013 + A1 2019 and the Fire Cert
Reference	N/A

6.2.5 Protective Services – Fire Extinguishers (Apartments Only)



Location	All Areas – Internal
Description	Fire Extinguishers and Fire Blankets
Lifecycle	Annual Inspection
Required	Annual with Replacement of all extinguishers at year 10
maintenance	
Year	Annually
Priority	Cost for replacement equipment to be updated on completion of design
	matrix of equipment at detailed design stage.
Selection	All fire extinguishers must meet the requirements of I.S 291:2015
process	Selection, commissioning, installation, inspection and maintenance of
	portable fire extinguishers.
Reference	N/A

6.2.6 Protective Services – Apartment Sprinkler System (Where Applicable by Fire Cert)

Location	Residential / Apartments.			
Description	Apartment Sprinkler System			
Lifecycle	Weekly / Annual Inspection			
Required	Weekly Check of Sprinkler Pumps and plant and annual testing and			
maintenance	certification of plant by specialist.			
Year	All			
Priority	Cost for replacement equipment to be updated on completion of design			
	matrix of equipment at detailed design stage.			
Selection	The Apartment sprinkler system shall be installed in accordance with			
process	BS 9251:2005 - Sprinkler Systems for Residential and Domestic			
	Occupancies – Code of Practice			
Reference	N/A			

6.2.7 Protective Services - Dry Risers

Location	Common Area Cores of Apartments
Description	Dry Risers
Lifecycle	Weekly / Annual Inspection
Required	Visual Weekly Checks of Pipework and Landing Valves with Annual
maintenance	testing and certification by specialist.
Year	Annually
Priority	Cost for replacement equipment to be updated on completion of design
	matrix of equipment at detailed design stage.
Selection	The system shall be installed in accordance with BS 5041 - Fire
process	Hydrant Systems Equipment & BS 9999 – Effective Fire Safety in the
	Design, Management and Use of Buildings.
Reference	N/A

6.2.8 Fire Fighting Lobby Ventilation (To Fire Consultants Design and Specification)



Description	Smoke Extract / Exhaust Systems					
Lifecycle	Regular Tests of the system					
	Annual inspection of Fans					
	Annual inspection of automatic doors and Automatic Opening Vents					
	(AOV)					
	 All systems to be backed up by life safety systems. 					
Required	Annual Service Inspections to be included as part of Development					
maintenance	Planned Preventative Maintenance Programme					
Year	Weekly / Annually					
Priority	Medium					
Selection process	All equipment to be detailed as part of the detailed design section of the development. This equipment will be selected in conjunction with the					
process	design and management team to meet and exceed the Chartered					
	Institution of Building Services Engineers of Ireland's (CIBSE)					
	recommended lifecycles.					
Reference	N/A					

6.2.9 Sustainable Services

Location	Residential / Apartment				
Description	Heat Pumps (EAHP)				
Lifecycle	 Annual Maintenance of Exhaust Air Heat Pumps (EAHP) Cost for replacement equipment to be updated on completion of design matrix of equipment at detailed design stage. 				
Required maintenance	Annual Service Inspections to be included as part of Development Planned Preventative Maintenance (PPM) Programme				
Year	Annually				
Priority	Medium				
Selection process	All equipment to be detailed as part of the detailed design section of the development. This equipment will be selected in conjunction with the design and management team to meet and exceed the Chartered Institution of Building Services Engineers of Ireland's (CIBSE) recommended lifecycles.				
Reference	N/A				

Location	Non-Residential and Common Areas				
Description	Heat Pumps, (ASHP).				
Lifecycle	Annual Maintenance of Air Source Heat Pumps				
	 Cost for replacement equipment to be updated on completion of design matrix of equipment at detailed design stage. 				
Required maintenance	Annual Service Inspections to be included as part of Development Planned Preventative Maintenance (PPM) Programme				
Year	Annually				
Priority	Medium				
Selection process	All equipment to be detailed as part of the detailed design section of the development. This equipment will be selected in conjunction with the design and management team to meet and exceed the Chartered Institution of Building Services Engineers of Ireland's (CIBSE) recommended lifecycles.				
Reference	N/A				





7.0 CONCLUSION & CONTACT DETAILS

Based on the information provided, Aramark Property have considered the schemes proposals. From our experience to date of similar schemes we manage, we have set out an overview of how we believe the overarching management of the scheme can be successfully managed in best practice for the benefit of the owners of this scheme and the future occupiers.

With reference to Aramark Property's Building Lifecycle Report, following receipt of Planning Drawings and Architectural Design Statement, the Applicant / Design Team have considered and addressed Section 6.13, Apartments and the Development Management Process, of the Sustainable Urban Housing: Design Standards for New Apartments (December 2022).

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Aramark Key Service Lines



DOCUMENT CONTROL SHEET

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