

THE CONNOLLY QUARTER



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INTRODUCTION

The Sustainable Urban Housing; Design Standards for New Apartments – Guidelines for Planning Authorities were published in March 2018 (hereafter referred to as the Apartment Guidelines). The Apartment Guidelines introduced a requirement to include details on the management and maintenance of apartment schemes. This is set out in Section 6.11 to 6.14 - “*Operation & Management of Apartment Developments*”, specifically Section 6.13.

Section 6.13 of the Apartment Guidelines 2018 requires that apartment applications shall:

“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”

“Demonstrate what measures have been specifically considered by the proposer to effectively manage and reduce costs for the benefit of residents.”

This Building Life Cycle Report document sets out to address the requirements of Section 6.13 of the Apartment Guidelines. The report is broken into two sections as follows:

Section 01:

An assessment of long term running and maintenance costs as they would apply on a per residential unit basis at the time of application

Section 02:

Measures specifically considered by the proposer to effectively manage and reduce costs for the benefit of residents.

PROPOSED DEVELOPMENT

The development will consist of;

- i. the demolition of 4 no. structures with a combined gross floor area of 3,028sq.m;
- ii. the construction of 741 no. Build to Rent (BTR) residential units in 8 no. apartment blocks ranging in height from 4 storeys to 23 storeys with lower height buildings located adjacent to the northeast and east site boundaries, with a cumulative gross floor area of 68,535sq.m comprising;
 - a. Block B1 (maximum building height 54.917m, total gross internal floor area 11,260sq.m, Apartment Mix: Studio: 25, 1-bed: 37, 2-bed: 51);
 - b. Block B2 (maximum building height 54.917m, total gross internal floor area 10,831sq.m, Apartment Mix: Studio: 20, 1-bed: 35, 2-bed: 51,);
 - c. Block B3 (maximum building height 51.767m, total gross internal floor area 9,766sq.m, Apartment Mix: Studio: 22, 1-bed: 60, 2-bed: 27, 3-Bed: 1);
 - d. Block C1 (maximum building height 79,450m, total gross internal floor area 12,705sq.m, Apartment Mix: Studio: 84, 1-bed: 40, 2-bed: 41);
 - e. Block C2 (maximum building height 39,615 m, total gross internal floor area 4,890 sq.m, Apartment Mix: Studio: 9, 1-bed: 33, 2-bed: 3, 3-Bed: 4);
 - f. Block C3 (maximum building height 39,650 m, total gross internal floor area 6,775sq.m, Apartment Mix: Studio: 40, 1-bed: 18, 2-bed: 23);
 - g. Block D1 (maximum building height 53,392 m, total gross internal floor area 8,418 sq.m, Apartment Mix: Studio: 10, 1-bed: 25, 2-bed: 44, 3-Bed: 1);
 - h. Block D2 (maximum building height 30,950 m, total gross internal floor area 3,890 sq.m, Apartment Mix: Studio: 18, 1-bed: 8, 2-bed: 11);
- iii. residential support amenities including 1 no. gyms, a resident's lounge, work areas, meeting rooms, dining rooms, recreational areas with a combined GFA of 1,444 sq.m;
- iv. change of use from club house to pedestrian passageway of the existing vault (137sq.m GFA) fronting Seville Place, a Protected Structure (RPS No. 130);
- v. a basement of 7,253.4 sq.m with vehicular access from Oriel Street Upper incorporating residents' car parking (58 no. spaces), residents cycle parking (640 no. spaces) 7 no. plant rooms (combined 2,228sq.m), waste management facilities (393 sq.m)
- vi. 766 no. covered cycle parking spaces for residents and visitors, concierge office (233 sq.m) and waste management facilities (126 sq.m);
- vii. 'other uses' including 10 no. units providing retail, commercial, and community use with a combined GFA of 3,142 sq.m;
- viii. A total of 18,562 sq.m of hard and soft landscaping comprising both public, communal and private open space located throughout the development;

- ix. A service and emergency vehicle only access ramp from the Oriel Street Upper site entrance to serve CIE's transport needs at Connolly Station;
- x. Enabling works of a non-material nature to safeguard the existing vaults (Protected Structures - RPS No. 130) that form part of the subject site fronting Sherriff Street Lower, Oriel Street Upper, and Seville Place during the construction phase;
- xi. All associated ancillary development works including drainage, 6 no. electricity substations, pedestrian access; and
- xii. Works to the Masonry wall fronting Oriel Street and the Vaults fronting Seville Place (both a Protected Structure) consisting of the creation of a new vehicular and pedestrian entrance.

SECTION 1 - AN ASSESSMENT OF LONG TERM RUNNING AND MAINTENANCE COSTS AS THEY WOULD APPLY ON A per RESIDENTIAL UNIT BASIS AT THE TIME OF APPLICATION

1.1 Long-Term Running Costs

The aim of the developer is to manage and minimise potential unnecessarily high running costs on a per residential unit basis. Ballymore Group have a proven track record in the delivery of high-quality homes and apartments, and have applied their experience to ensure the provision of a product which will be well managed and easily maintained.

1.2 Property Management of the Common Areas of the development

A property management company will be engaged at an early stage of the development to ensure that all property management functions are dealt with for the development and that the running and maintenance costs of the common areas of the development are kept within the agreed Annual operational budget. The property management company will enter into a contract directly with the Owners Management Company (OMC) for the ongoing management of the built development. This contract will be for a maximum period of 15 years and in the form prescribed by the PSRA.

The Property Management Company also has the following responsibilities for the apartment development once constructed:

Timely formation of an Owners Management Company (OMC) – which will be a company limited by guarantee having no share capital. All future purchasers will be obliged to become members of this OMC.

- Preparation of annual service charge budget for the development common areas.
- Fair and equitable apportionment of the Annual operational charges in line with the Multi
- Units Development Act 2011 (MUD Act).
- Engagement of independent legal representation on behalf of the OMC in keeping with the
- MUD Act - including completion of Developer OMC Agreement and transfer of common areas.
- Transfer of documentation in line with Schedule 3 of the MUD Act.
- Estate Management.
- Third Party Contractors Procurement and management.
- OMC Reporting.
- Accounting Services.
- Corporate Services.
- Insurance Management.
- After Hours Services.
- Staff Administration.

1.3 Service Charge Budget

The property management company has a number of key responsibilities, primarily the compiling of the service charge budget for the development for agreement with the OMC. The service charge budget covers items such as cleaning, landscaping, refuse management, utility bills, insurance, maintenance of mechanical/electrical lifts/ life safety systems, security, property management fee, etc., to the development common areas in accordance with the Multi Unit Developments Act 2011 ("MUD" Act). This service charge budget also includes an allowance for a Sinking Fund and this allowance is determined following the review of the Building Investment Fund (BIF) report prepared for the OMC. The BIF report will identify those works which are necessary to maintain, repair, and enhance the premises over the 30-year life cycle period, as required by the Multi Unit Development Act 2011. In line with the requirements of the MUD Act, the members of the OMC will determine and agree each year at a General Meeting of the members, the contribution to be made to the Sinking Fund, having regard to the BIF report produced. A sample format of the typical BIF report is set out in Appendix A.

Note: the detail associated with each element heading i.e. specification and estimate of the costs to maintain / repair or replace, can only be determined after detailed design and the procurement/ construction of the development and therefore has not been included in this document.

1.4 Sinking Fund

It is expected that a sinking fund allowance will account for future major maintenance and upgrade costs. A 10-year Planned Preventative Maintenance (PPM) strategy will determine the level of sinking fund required.

SECTION 2 - MEASURES SPECIALLY CONSIDERED BY THE PROPOSED TO EFFECTIVELY MANAGE AND REDUCE COSTS FOR THE BENEFIT OF RESIDENTS

2.1. Energy Performance and Carbon Emissions

A Building energy Rating (BER) certificate will be provided which will provide detail of the energy performance and carbon emissions associated with the dwellings. It is proposed to target a BER Rating for each apartment of A2/A3. This will equate to the following emissions:

A2 – 25-50 kWh/m²/yr. with CO₂ emissions approx. 10 kgCO₂/m²/yr.

A3 – 51-75 kWh/m²/yr. with CO₂ emissions approx. 12 kgCO₂/m²/yr.

The following table outlines the proposed passive and active, energy and carbon emission reduction measures which will directly benefit occupants in terms of reducing operational costs.

Measure Description	Benefit																				
<p>Building Fabric Efficiency. The U-Value of a building element is a measure of the amount of heat energy that will pass through the constituent element of the building envelope. Increasing the insulation levels in each element will reduce the heat lost during the heating season.</p> <p>It is possible to exceed the requirements of the current building regulations. The current target U-Values are identified below:</p> <table border="1"> <thead> <tr> <th>Element</th> <th>New Buildings & extensions to existing buildings [W/m²k]</th> <th>Proposed for this development [W/m²k]</th> <th>Percentage Improvement</th> </tr> </thead> <tbody> <tr> <td>Walls</td> <td>0.21</td> <td>0.18</td> <td>14%</td> </tr> <tr> <td>Floors</td> <td>0.21</td> <td>0.15</td> <td>29%</td> </tr> <tr> <td>Windows</td> <td>1.60</td> <td>1.40</td> <td>13%</td> </tr> <tr> <td>Roofs</td> <td>0.20</td> <td>0.15</td> <td>25%</td> </tr> </tbody> </table> <p>A major consideration in reducing the heat losses in a building is the air infiltration. This essentially relates to the ingress of cold outdoor air into the building and the corresponding displacement of the heated internal air. This incoming cold air must be heated if comfort conditions are to be maintained. In a traditionally constructed building, infiltration can account for 30 to 40 percent of the total heat loss; however, construction standards continue to improve in this area. With good design and strict on-site control of building techniques, infiltration losses can be significantly reduced. In order to ensure that a sufficient level of air tightness is achieved, air permeability testing will be specified, with the responsibility being placed on the main contractor to carry out testing and achieve the targets identified in the tender documents.</p> <p>A design air permeability target of 3 m³/m²/hr has been identified. Air testing specification will require testing to be carried out in accordance with: BS EN 13829:2001 'Determination of air permeability of buildings, fan pressurisation method' CIBSE TM23: 2000 'Testing buildings for air leakage'</p>	Element	New Buildings & extensions to existing buildings [W/m ² k]	Proposed for this development [W/m ² k]	Percentage Improvement	Walls	0.21	0.18	14%	Floors	0.21	0.15	29%	Windows	1.60	1.40	13%	Roofs	0.20	0.15	25%	<p>Reduction in energy consumption and the associated carbon emissions and operating costs</p>
Element	New Buildings & extensions to existing buildings [W/m ² k]	Proposed for this development [W/m ² k]	Percentage Improvement																		
Walls	0.21	0.18	14%																		
Floors	0.21	0.15	29%																		
Windows	1.60	1.40	13%																		
Roofs	0.20	0.15	25%																		
Lighting Efficiency. It is proposed to provide 100% of lighting outlets to be low energy (LED)	Reduction in energy consumption and the associated carbon emissions and operating costs																				
Energy Labelled White Goods	Reduction in energy consumption and the associated carbon emissions and operating costs																				

The following Low Energy / Carbon & Renewable Energy Solutions that are being considered for the development.

The optimum option will be determined and decided upon once the TGD L 2018 is formally published by Department of Environment (DOE) along with the ratified calculation method.

Measure Description	Benefit
<p>Heat Pumps - The general principal of heat pump technology is the use of electrical energy to drive a refrigerant cycle capable of extracting heat energy from one medium at one temperature and delivering this heat energy to a second medium at the desired temperature.</p> <p>The efficiency of any heat pump system is measured by its coefficient of performance (CoP). This is a comparison between the electrical energy required to run the heat pump and the useful heat output of the heat pump, e.g. a heat pump requiring 1kW of electrical power in order to deliver 3kW of heat energy has a CoP of 3.0.</p> <p>This operating principle can be applied to different situations, making use of the most readily available renewable heat source on any given site. The most common types are.</p> <ul style="list-style-type: none"> • Ground Source • Water Source • Air Source <p>Air and water source heat pumps are being considered.</p>	<p>Reduction in the consumption of fuel and the associated carbon emissions and operating costs.</p>
<p>Thermal Storage- The application of thermal energy storage (TES) vessels coupled with heat pump technologies is being considered for a number of purposes.</p> <p>TES enables low energy technologies such as heat pumps to operate at low night time electricity tariffs to generate low temperature hot water for heating and DHW at night which will be drawn off during the day to offset a proportion of the heating load.</p>	<p>Reduction in operating costs.</p> <p>TES may also decrease peak electrical infrastructure required on site.</p> <p>Extend the life of plant by preventing On / Off short cycling of plant which occur at times of low heat demand</p>
<p>Combined Heat & Power. - The inclusion of combined heat and power (CHP) plant in any building scheme must be given very careful consideration due to the large capital costs involved and the potential risk of higher running costs than would be incurred if separate heating plant and grid electricity were used.</p> <p>The most important consideration when designing CHP plant is to carefully assess both the heat load and the electrical load. A CHP installation will typically operate at approximately 80% combined efficiency. Approximately 60% of the useful output will be thermal energy with the remaining 40% being available as electric energy.</p> <p>E.g. a CHP plant which consumes 100kWhrs of gas will produce approximately 80kWhrs of useful output. 50 kWhrs of this output will be available as thermal energy while the electric energy output will be 30kWhrs.</p> <p>Following analysis, CHP has not been included.</p>	<p>Reduction in the consumption of gas & electricity and the associated carbon emissions and operating costs.</p>
<p>Photovoltaic (PV) Panels. - PV Panels are capable of generating direct current electricity from the sun's energy, which can then be converted to alternating current and used within the building. They are generally a "maintenance free" technology as there are no moving parts. They also typically have a 20-year manufacturer's guarantee on electrical output and can be expected to operate effectively for 30 years or more.</p>	<p>Reduction in the consumption of electricity and the associated carbon emissions and operating costs.</p>

Capital costs have also reduced significantly in recent years due to worldwide increase in production levels, particular from China. They are adaptable and scalable in that the amount installed can be selected to suit the budget available.	
Condensing gas boilers are being considered in conjunction with renewable technologies as they have a higher operating efficiency standard boilers. Condensing boilers utilize heat losses from the boiler exhaust flue gases to preheat the circulating heating water which typically results in an operating efficiency in excess of 90%.	Reduction in the consumption of fuel and the associated carbon emissions and operating costs.
Mechanical heat recovery ventilation (MVHR) will be considered to provide ventilation provision to apartments. MVHR provides tempered external fresh air to occupied spaces and extract ventilation from rooms with "Bad Air" such as Bathrooms, utility stores etc. Heat is recovered from exhaust air streams and transferred to the fresh air stream negating the requirements to use heating energy to heat incoming cold external fresh air.	Reduction in the consumption of fuel and the associated carbon emissions and operating costs. Increases comfort conditions for occupants Prevents mould growth.
ECAR Charging Points - Ducting shall be provided from local distribution boards to designated E-Car charging car park spaces. This will enable the management company the option to install a number of E-Car charging points to cater future E-Car demand of residents	Providing the option for E-Car charging points will futureproof the development.

2.2 Materials

The practical implementation of the Design and Material principles has informed design of building facades, internal layouts and detailing of the proposed apartment buildings.

2.2.1 Buildings

The Buildings are designed in accordance with the Building Regulations, in particular Part D 'Materials and Workmanship', which includes all elements of the construction. The Design Principles and Specification are applied to both the apartment units, commercial spaces and the common parts of the building and specific measures taken include:

Measure Description	Benefit
Openable window sections are provided to all stair cores (where practical) within the development providing natural daylight to circulation areas.	Avoids the requirement for continuous artificial lighting
Openable window sections are provided to all stair cores within the development providing Natural/Passive ventilation to common circulation areas.	Openable window sections are provided to all stair cores within the development providing natural daylight and ventilation throughout all common areas. Avoids costly mechanical ventilation systems and associated maintenance and future replacement.
Natural ventilation through grills, louvres and tree pits are proposed to provide fresh air to basement and sub-basement areas.	Avoids costly mechanical ventilation systems and associated maintenance and future replacement
External paved and landscaped areas	All of these require low/minimal maintenance
Roof construction to apartments includes green and Blue roof systems to a significant area of circa 50%	Green and Blue roof systems support the wider SUDS strategy for the development, protects the roof membrane and will thus minimize ongoing maintenance in the future.

2.2.2. Material Specification

Measure Description	Benefit
<p>Consideration is given to the requirements of the Building Regulations and includes reference to BS 7543:2015, 'Guide to Durability of Buildings and Building elements, Products and Components', which provides guidance on the durability, design life and predicted service life of buildings and their parts.</p> <p>All common parts of the proposed Apartment buildings and, the durability and performance of these are designed and specified in accordance with Figure 4; Phases of the Life Cycle of BS7543; 2015. (Please see Appendix B for this figure). The common parts are designed to incorporate the guidance, best practice principles and mitigations of Annexes of BS 7543: 2015 including:</p> <ul style="list-style-type: none"> • Annex A Climatic Agents affecting Durability • Annex B Guidance on materials and durability • Annex C Examples of UK material or component failures • Annex D Design Life Data sheet 	Ensures that the long-term durability and maintenance of Materials is an integral part of the Design and Specification of the proposed development.
Use of brickwork, render and profiled metal cladding to envelope	Requires no on-going maintenance.
Use of factory finished and alu clad/aluminium windows and doors, and powder coated steel balconies	Requires no on-going maintenance.

2.3 Landscape

Measure	Description	Benefit
Site Layout & Landscape design	High quality landscaping with landscape, cycles and pedestrians prioritised over car. An increase in soft landscaping. Please refer to Landscape Report for further detail.	Natural attenuation, reduced surface water runoff from site and increased biodiversity
Green / Brown Roofs	Use of green roofs, and brown roofs for inaccessible areas and traditional roof coverings with robust and proven detailing to landscape roof elements.	Attenuation reduces the burden on vulnerable rainwater goods, resulting in fewer elements that could require replacement or repair.
Paving and Decking materials	Use of robust high-quality materials and detailing to be durable for play, etc.	Required ongoing maintenance significantly reduced through use of robust materials installed with proven details.
Materials	Sustainable, robust materials, with high slip resistance to be used for paving. Durable and robust equipment (e.g. play, exercise, etc.) to be used throughout.	Robust materials and elements reduce the frequency of required repair and maintenance.
Sustainable drainage	Use of a 40mm deep combined drainage board/reservoir system across podium	Reduces the volume of irrigation required and the rate of discharge to the public infrastructure.
Planting details	Proven trees staking details. Shrub, hedging, herbaceous and lawn installation	Correctly installed planting suitable for the various Eco types on the site will develop into well established and robust soft landscape reducing future maintenance.

2.4 Waste Management

A PRS management company will be responsible for the site wide waste management. The following measures describe the intentions for the management of Waste.

Measure	Description	Benefit
Operational Waste Management Plan	This application will accompanied by an Operational Waste Management Plan prepared by AWN/OCSC	The report demonstrates how the scheme has been designed to comply with local, regional, and national waste legislation along with best practice
Storage of Non-Recyclable Waste and Recyclable Household Waste	Inclusion of centralised waste storage areas, with enough space to accommodate a weekly collection of bins	Easily accessible by all residents, minimises potential littering of the scheme, reduce potential waste charges and not limit waste contractor selection
	Domestic waste management strategy: General waste, mixed recyclable and organic bin distinction	Helps reduce potential waste charges and not limit waste contractor selection
	Security restricted waste storage rooms	Reduce potential for fly tipping by residents and non-residents
	Well signed waste storage rooms and bins	Help reduce potential cross contamination of waste and reduce waste charges.
Composting	Organic waste bins to be provided in waste storage areas	Helps reduce potential waste charges

2.5. Health & Well Being

The following are illustrations of how the health and well-being of future residents are considered.

Measure	Description	Benefit
Natural / Day Light	The design, layout and separation distances of the building blocks have been designed to optimize the ingress of natural daylight/ sunlight to the proposed dwellings to provide good levels of natural light.	Reduces reliance on artificial lighting thereby reducing running costs.
Air Quality	Mechanical heat recovery ventilation (MVHR) will be considered to provide ventilation provision to apartments. Gas boilers will not be located in any apartments which eliminates risk of carbon monoxide affecting air quality for occupants.	MVHR ensures occupied spaced are provided with adequate fresh air at a comfortable temperature without risk of draughts which maximises comfort conditions.
Accessibility	All units will comply with the requirements of Building regulations Parts M and K.	Reduces the level of adaptation, and associated costs, potentially necessitated by residents' future circumstances.

Security	<p>The scheme is designed to incorporate passive surveillance with the following security strategies likely to be adopted:</p> <ul style="list-style-type: none"> • CCTV monitoring details • Car registration recognition at entrance gate • Secure bicycle stands – covered by CCTV • Controlled Access to individual circulation cores • Controlled access between Public Spaces and Residents Communal Spaces • Routine access fob audits • Appropriately lit external spaces. 	<p>Aids in reducing potential security/management costs. Enhances safety for residents and visitors.</p>
Natural Amenity	<p>The design has proposed a large variety of natural amenity spaces such as landscaped courts and pedestrianised streets. The scheme incorporates a highline amenity concept which links all residential blocks through a series of sheltered private sunny courts and gardens. All residential blocks enjoy the benefit of private rooftop terraced gardens which incorporate sheltered and sunny zones and fantastic views.</p>	<p>Facilitates community interaction, socialising – resulting in improved wellbeing. Proximity and use of external green spaces promotes a healthy lifestyle. External spaces being provided separately for residents (communal courtyards & private balcony's) and public (Quality Public open Space)</p>

2.6. Management

Consideration has been given to ensuring the residents have a clear understanding of the subject property.

Measure	Description	Benefit
Home User Guide	<p>Once a purchaser completes their sale, a homeowner box will be provided which will include:</p> <ul style="list-style-type: none"> • Homeowner manual – this will provide important information for the purchaser on details of their new property. It typically includes details of the property such as MPRN and GPRN, Information in relation to connect with utilities and communication providers, Contact details for all relevant suppliers and User Instructions for appliances and devices in the property. • A Residents Pack prepared by the OMC which will typically provide information on contact details for the Managing agent, emergency contact information, transport links in the area and a clear set of rules and regulations. 	<p>Residents are as informed as possible so that any issues can be addressed in a timely and efficient manner.</p>

2.7. Transport

Measure	Description	Benefit
Access to Public Transport (LUAS / Light Rail)	Located at Connolly station, Amiens Street, Luas, Busaras, Connolly Dart and commuter station	The availability, proximity and ease of access to high quality public transport services contributes to reducing the reliance on the private motor vehicle for all journey types.
Access to Public Transport (Bus Services)	Local Bus services operate in close proximity to the subject development site.	These bus services provide access to a range of additional destinations above that serviced by the Dart & LUAS services. The proximity, frequency and range of additional destinations served by these local bus services enhance the accessibility levels of the proposed residential development in addition to providing a viable and practical sustainable alternative to journeys undertaken by the private motor car.
Permeable Connections	Provision and subsequent maintenance of dedicated pedestrian and cycle infrastructure on-site, and their connectivity with adjoining third party lands and off-site networks, providing connectivity and continuation of the City Wide Green Route, subsequently providing convenient access to local services including shops, schools, restaurants and doctor's surgeries.	Ensure the long-term attractiveness of walking and cycling to a range of local education, retail and community facilities and services.
Bicycle Storage	The provision of high quality secure bicycle parking facilities, for both short term and long-term parking requirements.	Accommodates the uptake of cycling and reducing the reliance on the private motor vehicle.
ECAR Facilities	Ducting will be provided from a local landlord distribution board to designated ecar charging car park spaces.	To accommodate the growing demand for ECARS which assist in decarbonising society and reducing oil dependency.
Car Sharing	Carparking for the development is limited to encourage the use of adjacent public transport infrastructure	Reduces the reliance on the private motor vehicle and reducing oil dependency

APPENDIX A - Items included in Typical BIF

Items Included in a Typical BIF

The BIF table below illustrates what would be incorporated for the calculation of a Sinking Fund.

BUILDING INVESTMENT FUND (SINKING FUND) CALCULATIONS			
Ref	Element	Life Expectancy	Cost
1.00	Roofs		
1.01	Replacement felt roof covering incl. insulation to main roofs/ overhaul to green roofs.	18	
1.02	Replacement parapet details	18	
1.03	Replacement/ repairs to facias	18	
1.04	Replace roof access hatches	25	
1.05	Specialist Roof Systems - Fall arrest	25	
1.06	Overhaul waterproofing details to penthouse paved areas	12	
2.00	Elevations		
2.01	Recoat metal panels to penthouse apartments	25	
2.02	Minor repairs and preparation for decorations of rendered areas	18	
2.03	Replace exit/ entrance doors	25	
2.04	Replace Rainwater goods	25	
2.05	Recoat powder coated Finishes to balconies / Grills to Basement vents	20	
2.06	Periodic replacement and overhauling of external fixings	5	
2.07	Replace Balcony floor finishes	25	
3.00	Common Areas		
3.01	Decorate Ceilings	7	
3.02	Decorate Walls	7	
3.03	Decorate Joinery	7	
3.04	Replace fire doors	25	
3.05	Replace carpets (stairwells & lobbies)	12	
3.06	Replace entrance mats	10	
3.07	Replace nosing's	12	
3.07	Replace ceramic floors tiles Entrance lobbies	20	
3.07	Fixed Furniture & Equipment - Provisional Sum	18	

Ref	Element	Life Expectancy	Cost
4.00	Basement & Car Parking		
4.01	Remove/ Replace ceiling insulation	25	
4.02	Repaint parking spaces & Numbering	7	
4.03	Replace store doors, ironmongery & digi-locks	15	
4.04	Replace Bike stands	25	
4.05	Replace basement access control at entrance & core entrances	12	
5.00	M&E Services		
5.01	General - Internal re-lamping	7	
5.02	Replace Internal light fittings	18	
5.03	Replace External light fittings (lights at entrance lobbies)	18	
5.04	Replace smoke detector heads	18	
5.05	Replace manual break glass units/ disabled refuge call points	18	
5.06	Replace Fire alarm panel	18	
5.07	Replace lift car and controls	25	
5.08	Replace Smoke Vent AOV's	25	
5.09	Replace security access control installation	15	
5.10	External Mains Water connection	20	
5.11	Electrical Mains and Sub Mains distribution	20	
5.12	Emergency Lighting	20	
5.13	Overhaul and/or replace Waste Pipes, Stacks & Vents	20	
5.14	Central Heat Pump Plant	20	
5.15	Central Boilers	15	
6.00	Exterior		
6.01	External boundary treatments - Recoat powder coated Finishes to railings	60	
6.02	Replace external signage	18	
6.03	Replace cobblelock areas	18	
6.04	15-year cutback & thinning of trees. Overhaul landscaping generally	20	
6.05	Replace CCTV provision	12	
6.06	External Handrails and balustrade	18	

APPENDIX B - Phases of the Life Cycle of BS7543; 2015

