MCORM
ARCHITECTURE
AND URBAN DESIGN

No 1 Grantham Street Dublin 8
T: +01 478 8700
E: arch@mcorm.com
MCORM.COM



BUILDING LIFECYCLE REPORT

LARGE-SCALE RESIDENTIAL DEVELOPMENT OF
C2 Lands At Southgreen, Co. Kildare
On behalf of
***Pousterle Limited*.**

Ref: 25001
March 2026

INTRODUCTION

BUILDING LIFECYCLE REPORT

This lifecycle report has been prepared in support of a full planning application by Pousterle Limited., (the applicant) for a new residential development on lands measuring approximately 4.64 hectares (Net Site Area) at Southgreen, Co. Kildare.

The development will comprise a Large-Scale Residential Development (LRD) on a site at Southgreen, Co. Kildare. The proposed development is for 146 no. residential dwellings, made up of 1 bed, 2 beds, 3 beds and 4 beds units and a creche facility located on the ground floor within Block A.

The breakdown is as follows:

- 5 no. 1 bedroom own-door apartments.
- 3 no. 2 bedroom own-door apartments.
- 2 no. 3 bedroom own-door duplex apartments.
- 7 no. 2 bedroom houses
- 102 no. 3 bedroom houses
- 27 no. 4 bedroom houses

The proposal includes for two new vehicular access points and a new pedestrian access to the west of the site.

The development also includes all car and bicycle parking, bin stores, residential private open space, public open space, substation, boundary treatments, landscaping and all associated site development works..

- The report is divided into the following sections-
- Section 1- Assessment of Long Term Running and Maintenance Costs as they would apply on a per residential unit basis at the time of application
- Section 2- Measures specifically considered by the proposer to effectively manage and reduce the costs for the benefit of residents

SECTION 1-

Assessment of Long Term Running and Maintenance Costs as they would apply on a per residential unit basis at the time of application

Property Management Company and Owner's Management Company (OMC)

1.1 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 running and maintenance costs of the common areas of the development are kept within the annual operational budget.

The property management company will enter into a contract directly with the OMC for the ongoing management of the built development. It is intended that this is a contract for a maximum of 3 years and in the form prescribed by the PSRA.

The property management will also have the following responsibilities for the development once completed-

- Timely formation of an Owner's 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 MUD Act.
- Estate management.
- Third Party Contractors procurement and management.
- OMC Reporting.
- Accounting Services.
- Corporate Services.
- Insurance Management.
- After Hours Services.
- Staff Administration.

1.2 Service Charge Budget

The property management company has a number of key responsibilities most notably, 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 by for the OMC. The BIF report once adopted by the OMC, determines an adequate estimated annual cost provision requirement based on the needs of the development over a 30-year cycle period. 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.

Notwithstanding the above, it should be noted that 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.

Section 2-

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

2.1 Energy and Carbon Emissions

The following are an illustration of the energy measured that are planned for the units to assist in reducing costs for the occupants-

Measure	Description	Benefit
BER Certificates	A Building Energy Rating (BER) Certificate will be provided for each dwelling in the proposed development which will provide detail of the energy performance of the dwellings. A BER is calculated through energy use for space and hot water heating, ventilation, lighting and occupancy. It is proposed to target an A2 rating for the apartments, this will equate to the following emissions- A2- 25 to 30kwh/m² with CO2 emissions circa 10kgCO2/m²/ year	Higher BER ratings reduce energy consumption and running costs
Fabric Energy Efficiency	The U Values being investigated will be in line with the requirements set out by the current regulatory requirements of Technical Guidance Document Part L, "Conservation of Fuel and Energy Buildings other than dwellings". Thermal bridging at junctions	Lower U-values and improved air tightness is being considered to help minimise heat losses through the building fabric, lower energy consumption and thus minimise carbon emissions to the environment.
External lighting	The proposed lighting scheme within the development consists of 6m pole mounted fittings as indicated on the drawings. The luminaire selected is the Urbis Schreder AXIA 3.1 Olsen Square Lighting fitting, selected for the following reasons- Low energy LED lamps. Colour temperature of 3000K. Zero upward light spill reducing glare for flying fauna. Approved by Westmeath Co. Council	The site lighting has been designed to provide a safe environment for pedestrians, cyclists and moving vehicles, to deter anti-social behaviour and to limit the environmental impact of artificial lighting on existing fauna and flora in the area. Having PECU allows for the optimum operation of lighting which minimises costs.

The following are low energy technologies that are being considered for the development and during the design stage of the development the specific combination from the list below will be decided upon and then implemented to achieve an A2 BER rating-

Measure	Description	Benefit
Air Source Heat Pumps	Air source heat pumps (ASHPs) are being considered as a heating source for the apartments and houses. It utilises grid supplied electricity to extract thermal energy from a heat source, in this case, the external ambient air.	Certified seasonal efficiencies of some models can exceed 500% meaning that the use of this technology can easily deliver compliance with current Part L requirements.
Mechanical Ventilation Heat Recovery	Mechanical heat recovery ventilation will be considered to provide ventilation with low energy usage.	Mechanical Heat Recovery Ventilation provides ventilation with low energy usage. The MVHR reduces overall energy and ensures a continuous fresh air supply.
PV Solar Panels	PV solar panels are being considered which converts the electricity produced by the PV system (which is DC) into AC electricity. The panels are typically placed on the south facing side of the building for maximum heat gain and in some instances, can also be used to assist the heating system.	PV solar panels offer the benefit of reducing fossil fuel consumption and carbon emissions to the environment. They also reduce the overall requirement to purchase electricity from the grid.

2.2 Materials

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

2.2.1 Buildings

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 and the common parts of the building and specific measures taken include-

Measure Description	Benefit
Daylighting to circulation areas	Avoids the requirement for continuous artificial lighting
External Paved and Landscaped areas	All of these require low/ minimal maintenance
Roof construction includes significant areas of traditional pitched roofs including traditional tiled coverings	Minimises ongoing maintenance

2.2.2 Material Specification

Measure Description	Benefit
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 All common areas in the scheme, and their durability and performance are designed and specified in accordance with Figure 4: Phases of Life Cycle BS 7543:2015. The common parts are designed to incorporate the guidance, best practice, principles and mitigations of Annexes of BS 7543:2015 including- Annex A- Climatic Agents affecting durability Annex B- Guidance on materials and durability Annex C- Design Life data sheets	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 and pigmented render systems to envelope	Requires no ongoing maintenance
UPVC windows and doors.	Requires no ongoing maintenance

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2.3 Landscaping

Element	Measure Description	Benefit
Paving Materials	Use of robust, high quality paving with robust proven details	Requires no ongoing maintenance
Materials	Sustainable, robust materials, with high slip resistance to be used for paving. Durable and robust equipment (e.g. play, exercise, fencing etc.) to be used throughout.	Robust materials and elements reduce the frequency of required repair and maintenance
Site Layout and Design	Generous and high quality landscaping, prioritising pedestrians and landscape over the car- increase in soft landscaping	Natural attenuation and landscape maintenance preferable.

2.4 Waste Management

Measure	Description	Benefit
Construction and Operational Waste Management Plan	The application is accompanied by a Construction and Operational Waste Management Plan by the applicant	The report demonstrates how the scheme complies with best practice
Storage of Non-Recyclable Waste and Recyclable Household Waste	Domestic waste management strategy- Grey, brown and green bin distinction Competitive tender for waste management collection	Helps reduce potential waste charges
Composting	Organic waste bins to be provided throughout	Helps reduce potential waste charges

2.5 Human Health and Wellbeing

Measure	Description	Benefit
Natural/ day light	The design, separation distances and layout of the apartment blocks have been designed to optimise the ingress of natural daylight/ sunlight to the proposed dwellings to provide good levels of natural light	Reduces reliance on artificial lighting, thereby reducing costs
Accessibility	All units will comply with the requirements of Building Regulations, Technical Guidance Documents Parts K and M	Reduces the level of adaptation, and associated costs potentially necessitated by residents' future circumstances.
Security	The scheme is designed to incorporate passive surveillance with the following security strategies likely to be adopted- Secure bicycle stands Overlooked public open space adjacent to the units.	Helps to reduce potential security/ management cost

2.6 Management

Consideration has been given to ensuring that homeowners have a clear understanding of their property-

Measure	Description	Benefit
Home User Guide	Once a purchaser completes their sale, a homeowner box will be provided which will include- Homeowner Manual- This will provide important information for the purchaser on details of the property. Typically it includes details of the property such as MPRN and GPRN information in relation to connection with utilities and communication providers. Contact details for all relevant suppliers and user instructions for appliances and devices in the property. 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	Residents are as informed as possible so that any issues can be addressed in a timely and efficient manner.

2.7 Transport

Measure	Description	Benefit
Access to Public Transport (Train or Bus Services)	Southgreen is well-served by several bus routes and trains connecting it to major towns and cities in Ireland. Key services include: 1. **Route 115** by Bus Éireann, linking Dublin to Mullingar with stops in Kildare Town. 2. **TFI Local Link**, connecting Kildare Town to South Dublin. 3. **Irish Rail** service between Dublin and Galway with a stop in Kildare Town	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.
Permeable Connections	The development is fully interconnected by pedestrian routes both within the scheme and to adjoining existing residential developments.	Ensures the long term attractiveness of walking and cycling to a range of local education, retail and community facilities and services.
Bicycle Storage	Secure high quality secure bicycle parking on-curtilage for dwellings.	Accommodates the uptake of cycling and reducing the reliance on the private motor vehicle.