



# **CLONBURRIS CANAL EXTENSION**

PART 8 - ARCHITECTURAL DESIGN STATEMENT PART 8 - HOUSING QUALITY AUDIT Job. Ref. 1273

MARCH 2022 | REV.04

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#### General

The purpose of this report, in accordance with the requirements of the Planning and Development Regulations 2001 (as amended), is to describe the nature and extent of the proposed scheme and principal features therein. South Dublin County Council (SDCC) appointed McCauley Daye O'Connell Architects to lead and manage a multi-disciplinary team for the development of a section of SDCC lands at Clonburris, Co. Dublin. The area is denoted as Development Area 12 – Canal Extension, within the Clonburris Strategic Development Zone (SDZ), Planning Scheme, 2019.

#### The proposal consists of the following works:

118 No. Units in a mix of houses, duplexes, simplexes, and 1 No. Apartment building, comprising:

- 11 No. 2 storey three-bed semi-detached and terraced houses
- 11 No. 3 storey four-bed semi-detached and terraced houses
- 25 No. 3 storey buildings each comprising: a single storey 2-bedroom apartment at the ground level with a three-bed duplex above
- 5 No. 3 storey stacked simplex units (Triplex): comprising a 1-bedroom apartment with study at ground level and 2 No. 1-bedroom apartments at the first and second floor levels
- 4 No. 3 storey stacked simplex units (Triplex): comprising a 2-bed apartment at ground level and 2 No. 1-bedroom apartments with study at the first and second floor levels
- 1 No. 4 storey Apartment building (c.440 sq.m.) Accommodating 19 No. Apartments, comprising; 15 No. 1 bed and 4 No. of 2 bed units. The proposed apartments are provided with private balconies or terraces.
- Site development and landscape works include the provision of 112 No. Parking spaces, 24
  No. Visitor cycle parking, ESB substation, high quality amenity spaces, landscape works,
  roundabout at the entrance to the development from Bawnogue Road, SUD's measures
  and all associated ancillary site development works.

### **Supporting Documents**

Along with the drawings required by regulation, this architectural design report forms a part of the full Part 8 Planning Application and should be read in conjunction with the supporting technical reports and/or drawings prepared by the project team.

## **CONTENTS** | CLONBURRIS CANAL EXTENSION

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### **INTRODUCTION** | CONTEXT

#### Introduction

The 3.25ha (Gross Development Area) site is located on lands adjoining the Bawnogue Road and Ashwood drive in Clondalkin/Clonburris, just south of the Grand Canal, and west of the Fonthill road (the R113). The proposal forms part of the Statutory Scheme - Phase 02 of the development of SDCC lands within the approved Clonburris Strategic Development Zone (SDZ) for the 'Canal Extension' area.

The SDZ intends to create a new urban district within the Metropolitan Area to the west of Dublin City Centre, with access to high quality infrastructure and public transport services.

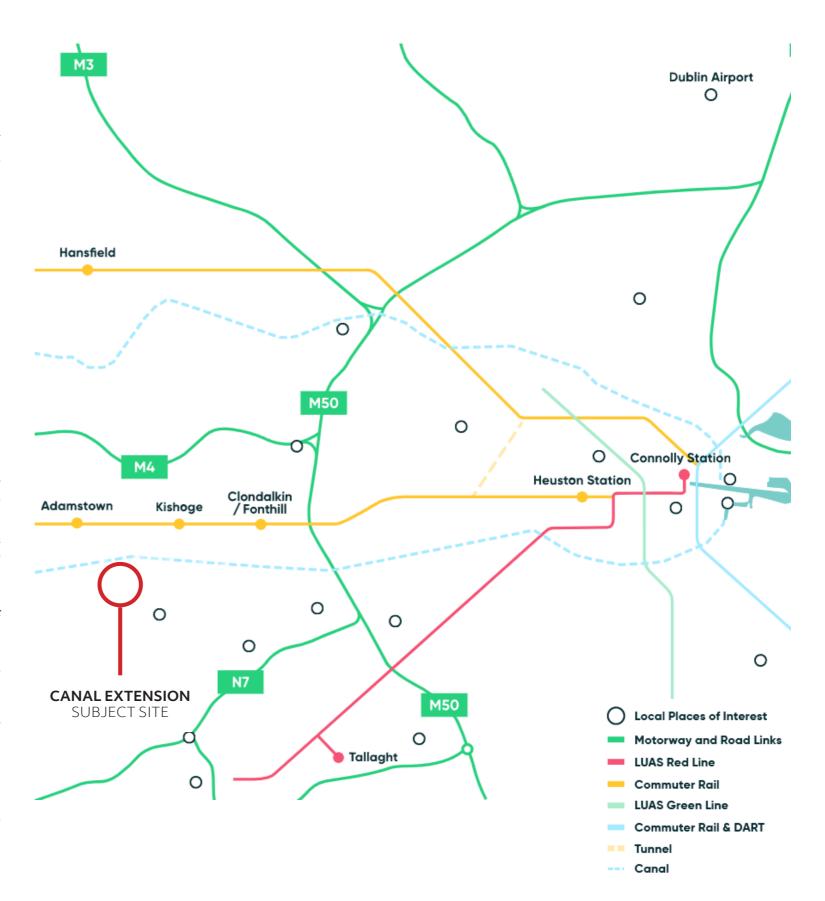
#### Context

The site is bounded by a residential development to the south and to the north by an adjoining green field site. The area is well served in terms of local amenities, with a range of schools, shops, and community facilities. The proposed development is just a 10 minutes drive from the M50 and the established communities of Lucan, Clondalkin, and Liffey Valley.

The 18th century Grand Canal located at the north of the site is a Natural Heritage Area, it hosts a rich variety of plant and animal species, including protected species and numerous mature tree species. An Appropriate Assessment (AA) Screening has been prepared by Moore Group Environmental Services as part of this application. The report determined that the proposal doesn't present a potential for a significant effect on any European sites, and as such requires no further assessment. Please refer to the 'Appropriate Assessment Screening' report attached to this application.

The site is an undeveloped, greenfield site and it is almost levelled. It is composed of grasslands and an assortment of trees and hedgerows along Bawnogue Road and the canal tow-path. A cluster of trees and scrub species are also found along Fonthill Road and Ashwood Road. Please refer to LDA 'Landscape report and drawings' attached to this application. A Tree Survey and Tree Protection Plan was prepared for the overall SDZ; if a 'site specific' survey/assessment is required for the subject site, it can be carried out at tender stage.

It is noted that a number of services traverse the site; there is an underground high-pressure gas network and telecoms pipes/way-leave located along the east of the site. A series of ESB overhead lines running both north/south and east/west, also cross the site along the east. Please refer to 'M&E utilities drawing' produced by OCSC services engineers.



## INTRODUCTION | CONTEXT

Metropolitan Workshop, under the instruction of SDCC, carried out a masterplan study of the lands within SDCC ownership that form part of the Clonburris SDZ Planning Scheme. This feasibility study took into consideration the core principles and requirements of the SDZ. The subject proposal prepared by MDO has considered the study prepared and has refined it; focusing on the maximum potential for the development of the lands.

It is also proposed to deliver a strategic park to the south of the Grand Canal; as foreseen in the SDZ masterplan.

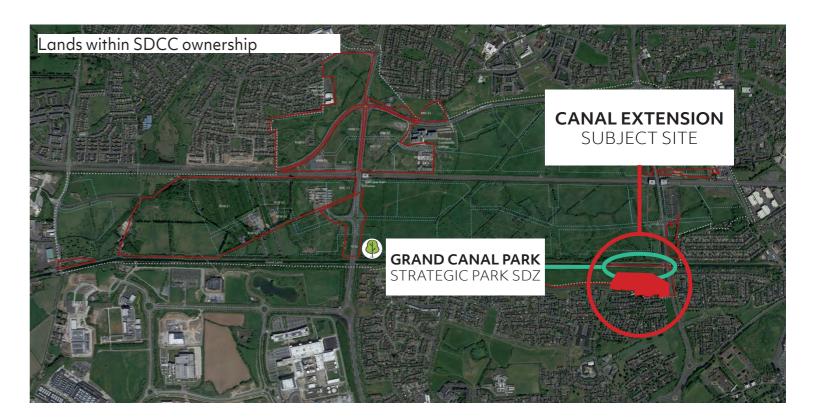
### **Development Summary**

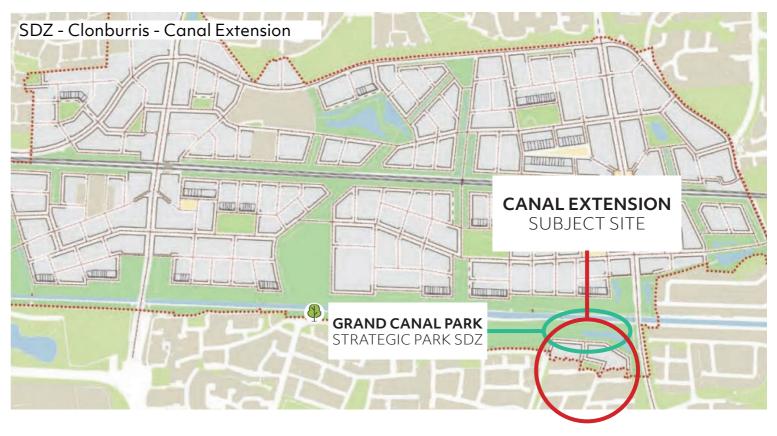
The proposed development will consist of the construction of 118 No. Dwelling units in a mix of houses, duplexes, simplexes, and 1 No. Apartment building. The proposal includes the provision of 112 No. Parking spaces, 24 No. Visitor cycle parking, ESB substation, high quality amenity spaces, landscape works, roundabout at the entrance to the development from Bawnogue Road, SUDS measures and all associated ancillary site development works. The scheme provides over 3830sq.m of Public Open Space (this excludes the strategic park to the north of the site), and over 700sq.m of Communal Open Space. It incorporates green infrastructure principles; such as enhanced cycling and walking connections, and SuDs into the overall design.

A wide variety of dwelling typologies are included in the proposal to suit all potential occupiers. It is proposed to deliver a mix of social and affordable housing; promoting social cohesion, offering good quality homes that meet the aspirations of a range of people and households. The public amenity, has been carefully considered; the development is heavily landscaped, providing privacy and high quality living to all units. The proposed road and homezones have been designed to be safe, attractive and vibrant streets having regard to the Design Manual for Urban Roads and Streets (DMURS). Overall the development has taken into account the core principles of urban design and sustainability set in Urban Design Manual - A best practice quide.

The overall mix across the Development Area is as follow:

Туре	1 Bed	2 Bed	3 Bed	4 Bed	Total
Social	25	15	11	5	56
Affordable	8	23	25	6	62
Total	33	38	36	11	118
%	28	32	31	9	100





### **INTRODUCTION** | PLANNING CONTEXT

# National Planning Framework Regional Spatial and Economic Strategy (RSES) 2019

The National Planning Framework is the Government's plan to cater for the extra one million people that will be living in Ireland by 2040.

The proposal will deliver much needed housing within the Metropolitan Area of the Greater Dublin Area in accordance with the aims of Rebuilding Ireland.

The Draft RSES outlines strategic residential and employment nodes along key public transport corridors existing and planned, that contain development opportunities.

### South Dublin County Council Development Plan

The zoning objective which applies to the subject lands is 'SDZ' - To provide for strategic development in accordance with approved planning schemes.

#### Re. Clonburris:

"Clonburris will be an exemplar of best practice in sustainable development, placemaking and urban design. It will realize the full potential of its high accessibility by public transport, its canal-side location, and its critical mass. This will be a new ecodistrict that will set new standards for environmental urban expansion and act as a focus for new mixed-use development in the Greater Dublin Area."

There are a number of policies that apply to the subject site;

#### Transport & Mobility

Optimization of public transport. Ensure connectivity for pedestrians and cyclists.

#### Infrastructure & Environmental Quality

To incorporate SUDS as part of the design.

#### Green Infrastructure

To integrate Green Infrastructure as an essential component. To preserve and protect existing trees and hedgerows.

#### Public open space & Landscape setting

To connect parks and areas of open space. To promote the development of multinational amenity spaces.

#### • Heritage, Conservation & Landscape

Contribute to the creation of an open and integrated network of walking and cycling routes that integrate with the Grand Canal Way Green Route.

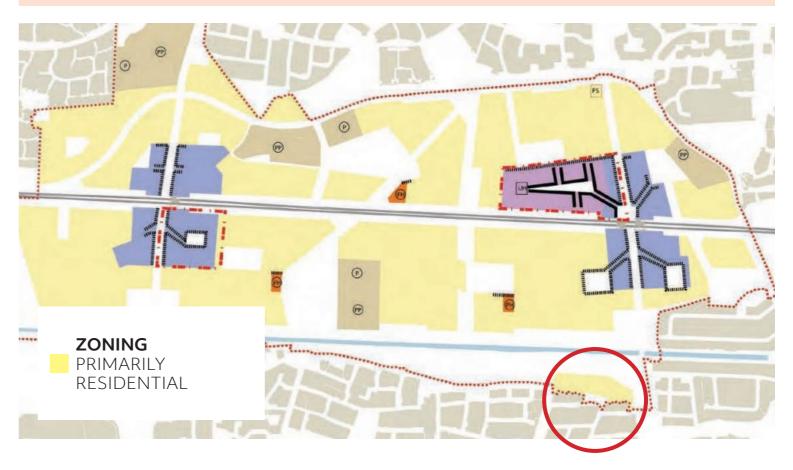
#### SDZ - Clonburris - Canal Extension

The SDZ sets an overview for the future residential, social, economic and environmental development of a new planned and sustainable community in South Dublin County.

Centered on the provision of a choice of high quality homes and access to open spaces, parks and a range of local services and amenities, together with the delivery of reliable public transport options - Important features of a sustainable community.

#### **Key Objectives**

- To develop a high-quality residential neighbourhood as an extension to the existing Ashwood development
- 2. To provide **locally accessible open spaces** of local and strategic importance; To ensure **high levels of legibility and ease of orientation**
- 3. To prioritise pedestrian and cyclist movement
- 4. To provide for a range of housing on the canal frontage and local streets
- 5. To provide a distinctive, diverse and quality frontage to the Canal corridor and
- 6. To provide significant and integrated **SUDS** infrastructure, including a high amenity retention pond/lake within the Canal corridor

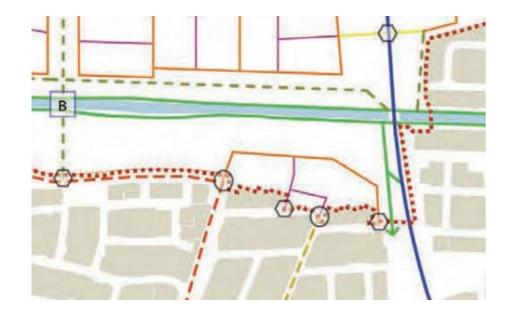


### **INTRODUCTION** | SDZ - CLONBURRIS CANAL EXTENSION



### **Overall Movement Concept**

- Proposed Local Street
- Proposed Intimate Local Street
- O Proposed Junction



## **Green Infrastructure**

- Strategic Open Space
- Canal/Suds/Pond/Waterway
- Local Green Corridor



### **Overview Clonburris Extension**

- Avenue Frontage
- Canal Frontage Trees Line



### Area character type

Medium-density residential infill development

Area SDZ- 2.27Ha 3.25Ha (Gross development area) 2.5Ha (Net development area)

### Total No. Dwelling units

Min 110 units / Max 133 units Target 121 units Proposed 118 units

**Building heights** 2-4 storey **Public Space** 2500sqm +

### **Further Assessments**

Metropolitan Workshop, under the instruction of SDCC, carried out a masterplan study of the lands within SDCC ownership that form part of the Clonburris SDZ Planning Scheme.

The part of the study concerning the subject lands shows a total of 117 No. of units.

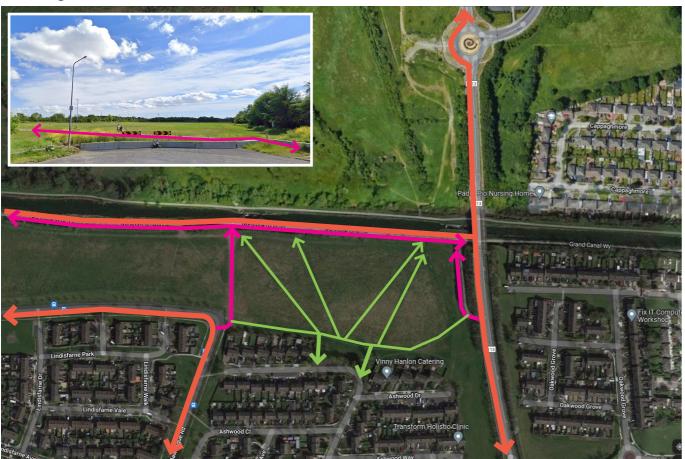


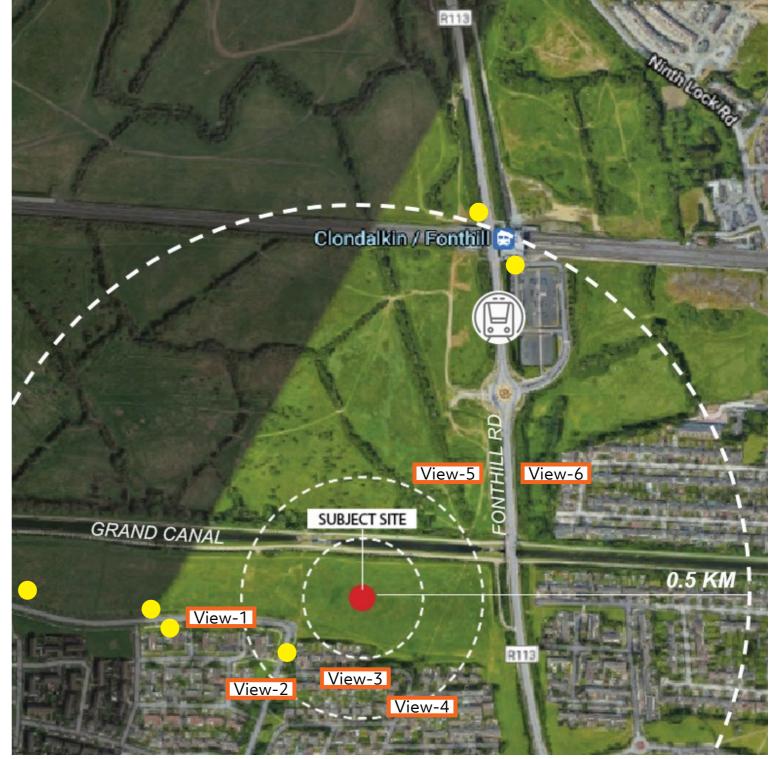
### **INTRODUCTION** | SITE LOCATION

The site has immediate access to excellent transport links. Less than 400m away is the Fonthill Rail Station - approx.10 minutes walk. At the entrance of the site there are a series of existing bus stop (bus route 13 and 51D). There is a 'potential' vehicle access point to the site from Bawnogue Road. It is proposed to incorporate a roundabout at this location to ease movement and secure traffic safety. Please refer to RPS 'Engineering Services Report and drawings' attached to this application.

The area is well served in terms of local amenities, with a range of schools, shops, and community facilities. The proposed development is just a 10 minutes drive from the M50 and the established communities of Lucan, Clondalkin, and Liffey Valley.

There are existing paved paths adjacent to the site which allow for movement of pedestrians and cyclists. There are a series of informal pedestrian routes crossing the site, from east to west and from Ashwood Road to the Grand Canal. Please refer to the diagram below.



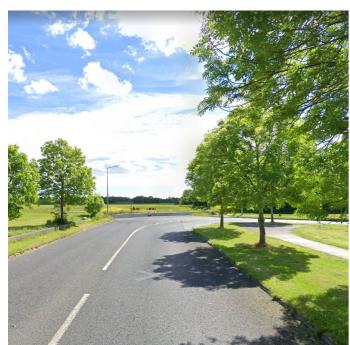


- Pedestrian Routes
- Informal Routes
- Cyclist Routes



## INTRODUCTION | SITE LOCATION

Bawnogue Road



Bawnogue Road



View-2

Ashwood Road



View-3

Ashwood Road



View-4

View from Grand Canal

View-1



View-5

View from Grand Canal



View-6

### MASTERPLAN DEVELOPMENT | GENERAL

### Masterplan proposals

The masterplan proposals are defined in following drawings:

#### **Proposed Site Drawings**

1273-MDO-XX-XX-DR-A-05 001	Proposed Site Plan
1273-MDO-XX-XX-DR-A-05 002	Taking in Charge Plan
1273-MDO-ZZ-ZZ-DR-A-21 001	Contiguous Elevations
1273-MDO-ZZ-ZZ-DR-A-21 002	Site Sections
1273-MDO-ZAB-00-DR-A-07 001	Block A and B Ground Floor Plan
1273-MDO-ZCD-00-DR-A-07 002	Block C and D Ground Floor Plan

#### **Proposed Dwelling Typologies Drawings**

#### Houses

1100303	
1273-MDO-H3AA-ZZ-DR-A-07 101	<ul><li>House Type 3AA - Plans Sections &amp; Elevations</li></ul>
1273-MDO-H3AB-ZZ-DR-A-07 102	<ul><li>House Type 3AB - Plans Sections &amp; Elevations</li></ul>
1273-MDO-H3AC-ZZ-DR-A-07 103	<ul><li>House Type 3AC - Plans Sections &amp; Elevations</li></ul>
1273-MDO-H4AA-ZZ-DR-A-07 104	<ul><li>House Type 4AA - Plans Sections &amp; Elevations</li></ul>

#### Duplex

12/3-MDO-D1AA-ZZ-DR-A-0/201	Duplex Type TAA - Plans Sections & Elevations
1273-MDO-D1AB-ZZ-DR-A-07 202	<ul><li>Duplex Type 1AB - Plans Sections &amp; Elevations</li></ul>
1273-MDO-D2AA-ZZ-DR-A-07 203	Duplex Type 2AA - Plans Sections & Elevations
1273-MDO-D2AB-ZZ-DR-A-07 204	<ul><li>Duplex Type 2AB - Plans Sections &amp; Elevations</li></ul>

Triplex Type 1AA - Plans

#### 3 storey - stacked simplex units (Triplex)

1273-MDO-T1AA-ZZ-DR-A-07 301

1273-MDO-T1AA-ZZ-DR-A-08 301 1273-MDO-T2AA-ZZ-DR-A-07 302	Triplex Type 1AA - Sections & Elevations  Triplex Type 2AA - Plans
1273-MDO-T2AA-ZZ-DR-A-08 302	Triplex Type 2AB - Sections & Elevations

#### **Apartments**

1273-MDO-BA01-ZZ-DR-A-07 401	<ul><li>Block Type BA01 - Plans (1 of 2)</li></ul>
1273-MDO-BA01-ZZ-DR-A-07 402	Block Type BA01 - Plans (2 of 2)
1273-MDO-BA01-ZZ-DR-A-08 403	Block Type BA01 - Elevations
1273-MDO-BA01-ZZ-DR-A-09 404	Block Type BA01 - Sections

#### **Overall Mix**

A wide range of dwelling typologies are included in the proposal. Including 2/3 storey houses, duplexes, stacked simplexes and a 4 storey apartment block. The proposal offers a mix of social and affordable housing; with 56 No. of social units and 62 No. of affordable units.

### **Overall Benefits & Opportunities**

The proposal presents anticipated benefits, such as:

- Deliver an appropriate architectural response aligned to the SDZ and SDCC development plan and housing guidelines
- Enhance existing context / neighbouring developments
- Provide a good variety of high quality social and affordable housing
- A development that encourages sustainable modes of transport. Improved accessibility and movement for pedestrians and cyclists
- Forms a strong urban frontage along the Grand Canal
- Improved sense of security passive surveillance all along the Canal frontage and inner streets
- Deliver high quality public realm and amenity
- New boundary wall/railings to stop unauthorised access to open space
- New public lighting
- Enhanced recreation facilities encouraging active play areas
- Enhanced landscape and biodiversity retention of existing trees and additional planting
- Green infrastructure SuDs, design principles that incorporate natural drainage systems that help infiltration, attenuation, and passive treatments
- Encourage modal shift in neighbouring developments
- The intention is that this development will set a standard for future developments in Clonburris





## MASTERPLAN DEVELOPMENT | SITE PLAN



### MASTERPLAN DEVELOPMENT | LANDSCAPE PRINCIPLES

#### Other Assessments

The Ecological Impact Assessment (EcIA) prepared by Moore Group Environmental Services concluded that the development is located in an area of low to moderate ecological value and as such predicted to have a neutral imperceptible effect on biodiversity.

The Appropriate Assessment (AAS) Screening prepared by Moore Group Environmental Services determined that the proposal doesn't present a potential for a significant effect on any European sites, and as such requires no further assessment.

The Environmental Impact Assessment Screening (EIAS) prepared by McCutcheon Halley Chartered Planning Consultants considered that a sub-threshold EIAR is not required for the proposed development, as the construction and operation of the overall development will not have a significant negative impact on the environment.

The Archaeological Impact Assessment prepared by John Cronin & Associates concluded that the proposed scheme will have a negligible impact on the recorded archaeological heritage resource.

Please refer to relevant reports attached to this application.





### **Landscape Benefits & Opportunities**

As set out in the Clonburris SDZ, the principles of the landscape elements are to provide a quality residential neighbourhood with locally accessible open spaces:

- High levels of legibility and ease of orientation
- Prioritise pedestrian and cycle movement
- Provide an integrated SUDs infrastructure, including a high amenity pond
- Good street-scape design inclusion of attractive planting, appropriate in scale and form
- Appropriate boundary treatments
- Reduce noise impacts from the Fonthill Road by enhancing existing planting
- Include appropriate footpath links/connections through the development
- Include formal and informal play SUDs pond to be a positive recreation and play opportunity
- Improving biodiversity and habitats and link with wider green networks
- Selecting materials and treatments to minimise maintenance burden

## MASTERPLAN DEVELOPMENT | LANDSCAPE PLAN



### MASTERPLAN DEVELOPMENT | DESIGN RATIONALE

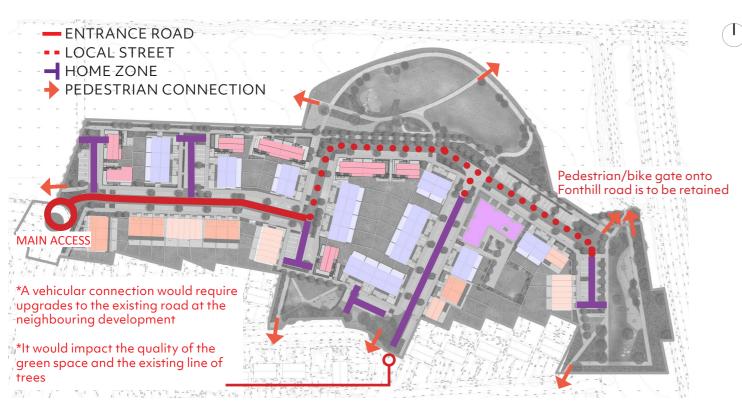
### The concept

To create a soft-urban design of blocks sitting in parkland setting. The principal design elements of the proposed residential development include:

- 4 main blocks; each block is defined by a series of buildings with different typologies
- Provision of 3 public parks; to the north, south and east enhancing the existing context
- Landscaped 'Local Streets' and a variety of 'Home Zones' fully shared surfaces will harmonize the movement of vehicles, pedestrians and cyclists, creating a balance between the quieter residential areas and the open space.

The development will add quality to the locality through new pedestrian routes and the amenity for children, adults and elderly. This will help create a sense of place and it will also be enjoyed by the neighbouring community.

### **Movement & Connectivity**



#### **Movement & Connectivity**

The main access to the proposed scheme is from Bawnogue Road, a roundabout at the entrance of the development is proposed to ease traffic - refer to RPS report for details of same. This will be provided by one main vehicular access point and a number of local streets that branch from this. A series of homezones are also proposed; these allow for green links to traverse the roads and permeate the overall development. A series of pedestrian links maximise connectivity between the site and all the destinations. This will allow people to move from place to place in a direct manner with greater route choice. On-street car parking is proposed throughout.

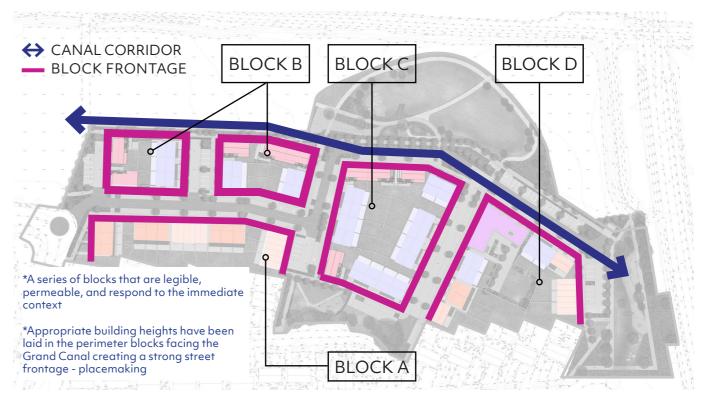
The SDZ proposes a secondary vehicular access/egress at the south of the site, this connection has been explored but it would require a major engineering junction connection, and an existing line of trees at this location would also be affected; disturbing the overall quality of the proposed park.

#### **Built form**

The SDZ indicates an allowable margin of units - with a minimum of 110 units and a max. of 133 units, meaning that 118 units are considered acceptable.



### **Building Frontage**



## MASTERPLAN DEVELOPMENT | DESIGN RATIONALE

The overall form, scale and massing of the scheme responds to the SDZ and the existing context; the blocks have been laid out having regard to the street hierarchy and the overall permeability of the site.

The building heights and typologies create a transition between the neighbouring development to the south and the Grand Canal. A strong building frontage, facing Grand Canal, is proposed in accordance to the SDZ. All buildings and houses act as active frontage directly serving the street and the proposed open spaces.

#### **Green Infrastructure**

Refer to LDA drawings and report for details of same.

The scheme provides three attractive, well used parks. It has been designed to promote a pedestrian centered environment with high levels of permeability which encourage a sense of community. The proposed parks are connected by a series of inviting streets capes and green corridors that also accommodate active and passive recreational activities. The proposed private open space and parkland are well overlooked, so all users feel comfortable and safe, creating a strong relationship between the private home and public space and boost a sense of ownership.

### **Green Infrastructure**



#### A Sustainable Community

The blocks are laid out to take advantage of the site's orientation, allowing high levels of natural light with no north facing units. Views over open spaces are maximized ensuring passive surveillance throughout the development.

In response to the existing site context, the proposed new development promotes the design of a sustainable new community. The development encourages a more efficient and sustainable quality of life for its residents.

Sustainable urban drainage systems (SUDs) have been employed in the design of the scheme for rain water management - refer to RPS report for details of same. The proposed pond on site has been regraded to provide an enhanced amenity while serving as an attenuation pond - storage, sedimentation and filtration of rain water.

The proposed development will be fully compliant with Part L. The blocks have been carefully sited to exploit solar orientation with the majority of the units enjoying dual aspect orientation. This will ensure that residents can benefit from natural daylight throughout the day and reduce the use of artificial lighting.

### Solar Path



### MASTERPLAN DEVELOPMENT | GREEN INFRASTRUCTURE

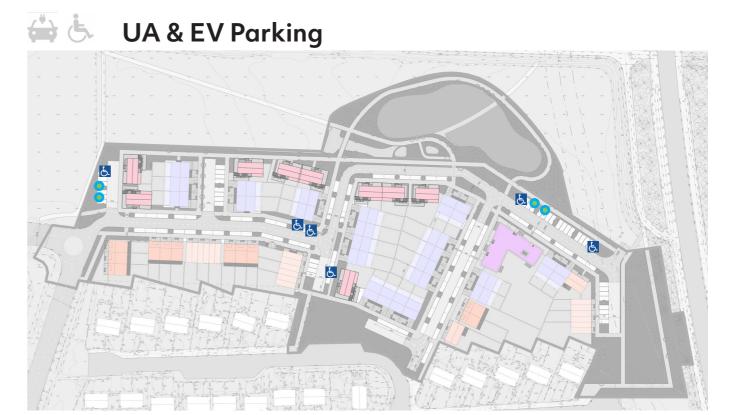
#### **Green Infrastructure - SDZ**



## **Public Amenity**

It is proposed to provide over 3830sq.m of public open space in a series of well-distributed parks; one to the south and another one to the east of the development, this provision is excluding the Park to the north which is .75Ha alone. It is also proposed to provide over 695sqm. of communal open space. Private amenity has been provided for each unit - in the form of gardens or patios/terraces for ground floor apartments and balconies at upper levels. Where provided at ground level, private amenity space shall incorporate boundary treatment appropriate to ensure privacy, security and optimising solar orientation.

Public Amenity		Required	Proposed
Public Open Space	15% Net development area	3762 sq.m	3830 sq.m
Communal Open Space	Apartment Guidelines	651 sq.m	695 sq.m
Part to the North	As per the SHD		7460 sq.m



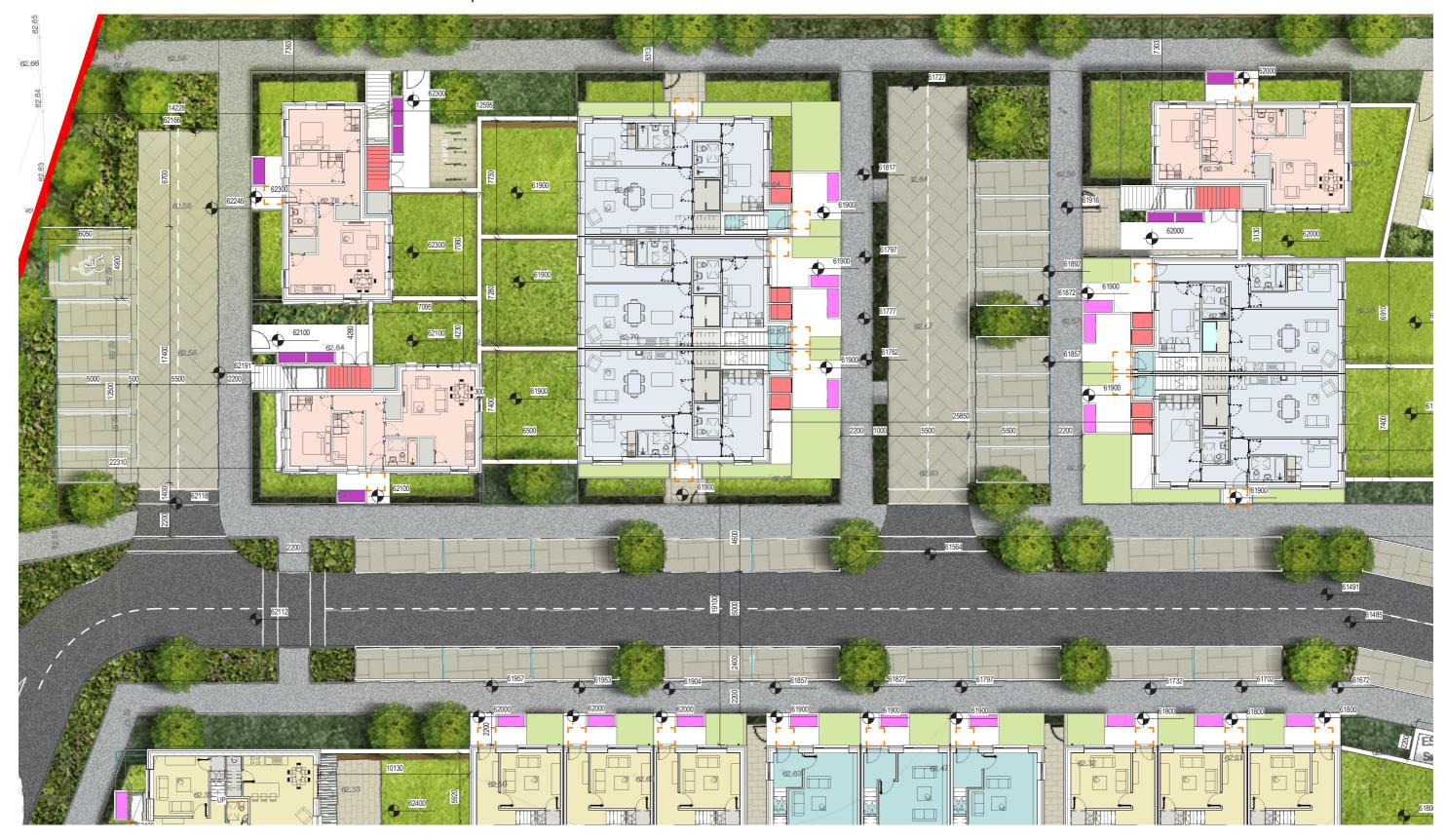
## **Public Amenity**



## MASTERPLAN DEVELOPMENT | STREET-SCAPE

## Site plan extract of Block B

Bicycle Parking Bin Compound



### MASTERPLAN DEVELOPMENT | STREET-SCAPE

### **Proposed Streetscapes**

It is proposed to create a strong sense of place, with attractive, carefully considered active streetscapes.

- A playful variation in the roofscapes and building forms provides a sense of identity within the development and contribute to the architectural and visual diversity of the SDZ Lands.
- The material pallete has been selected to ensure high quality and durable materials that require low maintenance.
- The scheme contains a diverse range of dwelling typologies for a variety of tenures to reflect the demand of the local context—with a mix of 2-3 storey houses, duplex and 3 storey simplexes (triplex units) and a 4 storey apartment building.
- The development has been designed to allow for adequate back-to back distances between buildings and maximise daylight/sunlight penetration and minimise overshadowing.







**Section AA** – Entrance to the development, a mix of houses & 3 storey simplexes (Triplexes)



**Section BB** – Main road, mix of 2 and 3 storey houses



- The streets are designed as places instead of roads for cars, helping to create a hierarchy of space with a mix of streets shared by pedestrians, cyclists, and drivers.
- Traffic speed is predominantly controlled by the layout design.
- Car-parking areas are considered as an integral element within the public realm design

#### **Car Parking**

All parking spaces are within easy access from each dwelling
On-street communal parking - to maximise efficiency

112 No. Parking spaces have been provided

#### **Bicycle Parking**

A bicycle store has been provided per unit. A further 24 visitor parking stands are provided around the development.

## MASTERPLAN DEVELOPMENT | MASSING VIEWS







## ARCHITECTURAL PROPOSAL | PRECEDENTS

### **Design Approach**

- Simple, clean contemporary designFinishes to be a mix of brick &
- render
- Threshold between public realm and entrance into units
- Sense of place & ownership
  Bin and bike storage cleverly integrated into the design















### **ARCHITECTURAL PROPOSAL** HOUSING TYPOLOGIES

### **Inclusivity & Variety**

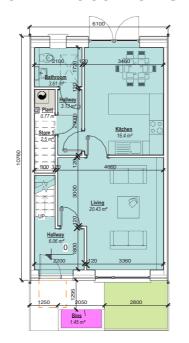
The development has a diverse range of dwelling typologies for a variety of tenures to reflect the demand of the local context, offering a variety of solutions to people of all ages and family size

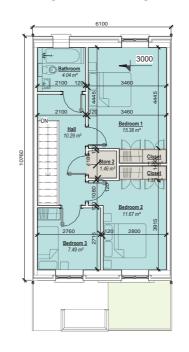
- It contains a mix of 1 Bed and 2 Bed apartment types that differ in size and layout
- 22 No. of Houses of 3 to 4 bedrooms are also provided
- A selection of duplexes and stacked simplexes (triplex units) are also provided to allow for further choice in dwelling types available in the area
- The various building types, vary in height from 2 to 4 storeys
- The landscape is designed to be an active space ideal for children to play in a safe environment and to complement the existing context
- The development will provide for a variety of formal and informal play spaces ideally suited to children of all ages and abilities

### Adaptability

- All of the proposed houses are good quality with large living spaces. All houses provide the potential for further rear extensions and many provide for the possibility of attic conversions for the changing needs of the families who will live here.
- All dwellings have been laid out to maximize daylight admittance, with most of them having an east-west orientation.
- All units comply with the Design Standards for New Apartments 2018 Please refer to Residential Quality Audit issued as part of this application.
- The proposed building fabric is highly insulated meeting or exceeding the requirements of the current Part L of the Building Regulations. The apartment structure minimizes air leakage paths, with the provision of mechanical ventilation and a heat recovery system to maintain air quality throughout. Lighting will be high efficiency LED type throughout. Aiming to achieve a minimum A3 BER rating for all the dwellings.

### 3 BED HOUSE - SINGLE UNIT - LOWER DENSITY

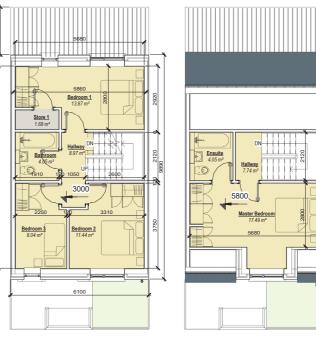






### 4 BED HOUSE - SINGLE UNIT - LOWER DENSITY





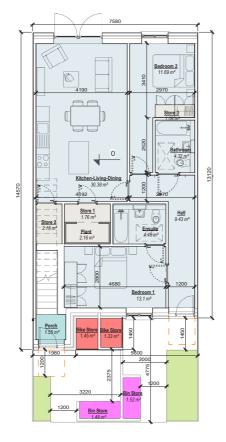




## **ARCHITECTURAL PROPOSAL** HOUSING TYPOLOGIES

**† †** DUPLEX - MEDIUM DENSITY









### Bicycle Parking

Cycling is positively encouraged within the proposed development.

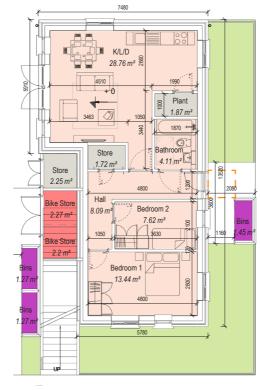
1 bicycle parking secure store has been provided per unit within each block. A further 10% visitor parking has been provided around the development.

#### **Bin Stores**

For the apartment building a communal bin store has been provided, being accessible to all residents. For all the other unit typologies, an enclosed secure bin store has been provided.

† † TRIPLEX - MEDIUM/HIGH DENSITY



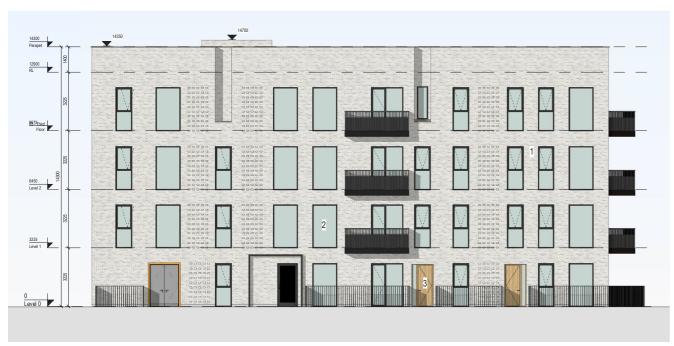




## ARCHITECTURAL PROPOSAL | HOUSING TYPOLOGIES

## †††APARTMENTS - HIGH DENSITY





















### **DETAILED DESIGN** | CLONBURRIS CANAL EXTENSION

### **Materiality**







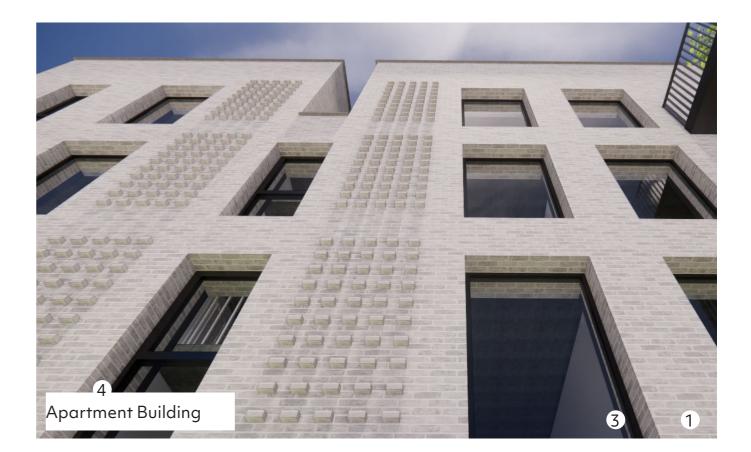


1. Selected colour brick

2. Selected colour render 3. Double glazed windows 4. Concrete tile roof with dark grey uPVC frame

As per the SDZ the material palette selected seeks to compliment the proposed character areas and make a positive contribution to the locality.

- A selection of brick and render is being proposed.
- In general, all front elevations and gables will be brick and all rear elevations will be render.
- The materials play an important role in the design of the buildings and will ensure the long term durability, and reduce their future maintenance. Overall they will enrich the amenity of the site and create a strong sense of place
- The selection of materials will meet the new NZEB requirements; the building's thermal comfort levels, maintenance cost and energy consumption.









3 Bed House Type

4 Bed House Type

Duplex

### **CONCLUSION** | CLONBURRIS CANAL EXTENSION

The proposal addresses the design criteria set out in the CLONBURRIS - STRATEGIC DEVELOPMENT ZONE and the following Design Standards and Policies;

- South Dublin County Council Development Plan 2016 -2022
- Delivering Homes, Sustaining Communities (2008) / Quality Housing for Sustainable Communities (2008);
- Sustainable Urban Housing: Design Standards for New Apartments (2018);
- Urban Design Manual A Best Practice Guide (2009);
- Urban Development and Building Heights (2019)

#### **Conclusion**

- The proposed development is consistent with the overall Planning Scheme and Key Objectives set out in the SDZ.
- It will create an attractive, new, high quality neighbourhood in Clonburris.
- It is an optimum use of a strategic site which has been carefully thought to create a sustainable mix of units that are well orientated to maximise solar gain and respond to the immediate site context.
- The development has been laid out to provide both public and private communal amenity spaces that are actively monitored and that can be enjoyed by the residents of the proposed development and the wider community.
- A sustainable urban district based on the integration of land use, promoting identity and prioritizing placemaking.





# **CLONBURRIS CANAL EXTENSION**

PART 8 - HOUSING QUALITY AUDIT

## **HQA** | SUMMARY SCHEDULE

	3 BED House H3AA	3 BED House H3AB	3 BED House H3AC Accesible Unit	4 BED House H4CA	Duplex - Aff 2 Bed GF	Duplex - Aff 3 Bed 2 storey	Duplex - Social 2 Bed GF	Duplex - Social 3 Bed 2 storey	Triplex - Aff 2 Bed GF (3 person)	Triplex - Aff 1 Bed + Study	Triplex - Aff 1 Bed + Study	Triplex -Social 2 Bed GF (3 person)	Triplex - Social 1 Bed + Study	Triplex - Social 1 Bed + Study	Apt 1 Bed - T1	Apt 1 Bed -T2	Apt 2 Bed	Total
AREA	111.1	113.6	122.6	142.7	84.7	128.5	80	123.4	70.9	58.3	77.9	65.4	52.9	72.4	49.3	53	78	
Block A	5	1		9														15
Block B					5	5	2	2	3	3	3	2	2	2				29
Block C					14	14			1	1	1	3	3	3				40
Block D	3		2	2			4	4							8	7	4	34
Total	8	1	2	11	19	19	6	6	4	4	4	5	5	5	8	7	4	118
AFF	5	1		6	19	19			4	4	4							62
Social	3		2	5			6	6				5	5	5	8	7	4	56

MDO Mix	1 Bed	2 Bed	3 Bed	4 Bed	Total
Proposed scheme	33	38	36	11	118
%	28	32	31	9	

AFF	Social	Total
62	56	118
52.5	47 5	



# **HQA** | SUMMARY SCHEDULE

Area/ Unit TOTAL No. sq.m of Units	No. Affordable Units	No. Social Units	Total No. Units per Block
---------------------------------------	----------------------------	---------------------	---------------------------------

BLOCK A							
Houses							
3 BED - Type H3AA	111.10	5	5			1	5
3 BED - Type H3AB	113.60	1	1			1	1
4 BED - Type H4AA	142.70	9	6	3		1	9
		10	12		15		10

BLOCK B									
Duplex - Affordable									
Duplex Type D1AA (Corner)									
	Ground Floor Unit - 2 bed	84.70	3	3				1	3
	Upper Floors Unit - 3 bed	128.50	3	3				1	3
Duplex Type D1AB (Terrace/S	Semi D)								
	Ground Floor Unit - 2 bed	84.70	2	2				1	2
	Upper Floors Unit - 3 bed	128.50	2	2				1	2
			10			10			
Duplex - Social									
Duplex Type D2AA (Corner)									
	Ground Floor Unit - 2 bed	80.00	1		1			1	1
	Upper Floors Unit - 3 bed	123.40	1		1			1	1
Duplex Type D2AB (Semi D)									
	Ground Floor Unit - 2 bed	80.00	1		1			1	1
	Upper Floors Unit - 3 bed	123.40	1		1			1	1
			4			4			
Triplex - Affordable									
Triplex Type T1									
	Apt 01 - 2 bed	70.90	3	3				1	3
	Apt 02 - 1 bed + study	58.30	3	3				.5	1.5
	Apt 03 - 1 bed + study	77.90	3	3			0	.5	1.5
			9			9			
Triplex - Social									
Triplex Type T2									
	Apt 01 - 2 bed	65.40	2		2			1_	2
	Apt 02 - 1 bed	52.90	2		2			.5	1
	Apt 03 - 1 bed	72.40	2		2		0	.5	1
			6	40	4.0	6			2.4
				19	10	29			24



## **HQA** | SUMMARY SCHEDULE

BLOCK C								
Duplex - Affordable								
Duplex Type D1AA (Corner)								
	Ground Floor Unit - 2 bed	84.70	2	2			1	2
	Upper Floors Unit - 3 bed	128.50	2	2			1	2
Duplex Type D1AB (Terrace/Se	emi D)							
	Ground Floor Unit - 2 bed	84.70	12	12			1	12
	Upper Floors Unit - 3 bed	128.50	12	12			1	12
			28			28	i	
Triplex - Affordable								
Triplex Type T1								
	Apt 01 - 2 bed	70.90	1	1			1	1
	Apt 02 - 1 bed + study	58.30	1	1			0.5	0.5
	Apt 03 - 1 bed + study	77.90	1	1			0.5	0.5
			3			3	i	
Triplex - Social								
Triplex Type T2								
	Apt 01 - 2 bed	65.40	3		3		1	3
	Apt 02 - 1 bed	52.90	3		3		0.5	1.5
	Apt 03 - 1 bed	72.40	3		3		0.5	1.5
			9			9		
				31	9	40		36

BLOCK D								
Apartment								
1 Bed Apt Type 01		49.30	8	8			0.5	4
1 Bed Apt Type 02		53.00	7	7			0.5	3.5
2 Bed Apt TyPe 01		78.00	4	4		_	1	4
			19		19	1		
Duplex - Social								
Duplex Type D2AA (Semi D)								
	Ground Floor Unit - 2 bed	80.00	4	4			1	4
	Upper Floors Unit - 3 bed	123.40	4	4			1	4
			8		8	1		
Houses								
3 BED - Type H3AA		111.10	3	3			1	3
3 BED - Type H3AC		122.60	2	2			1	2
4 BED - Type H4AA		142.70	2	2		_	1	2
			7		7	1		
				34	34			27

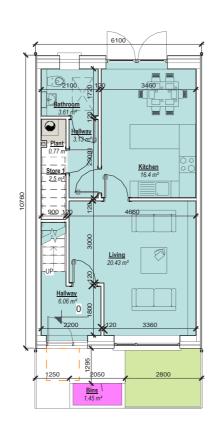
		IVIDO FIO
^		
Total	118	
Total	112	PLUS 10%

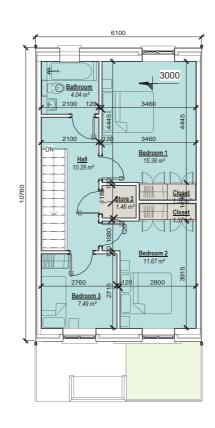


## **HQA |** HOUSE H3AA







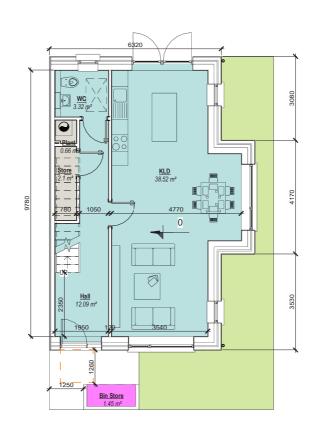


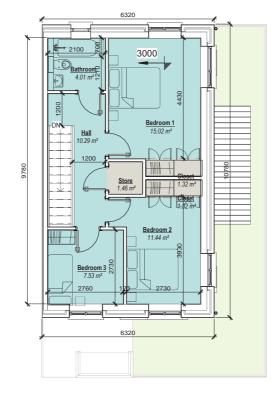
ROOM DATA SCHEDULE								
ROOM INFOR	RMATION	ARE	A REQUIREM	ENT				
Name	Level	Area Target	Actual Area	Difference m²				
Bedroom								
Bedroom 1	Level 1	13 m²	15.38 m²	2.38 m <sup>2</sup>				
Bedroom 2	Level 1	11.4 m²	11.67 m²	0.27 m <sup>2</sup>				
Bedroom 3	Level 1	7.1 m <sup>2</sup>	7.49 m²	0.39 m <sup>2</sup>				
		31.5 m <sup>2</sup>	34.55 m <sup>2</sup>	3.05 m <sup>2</sup>				
Living Area								
Kitchen	Level 0	16 m²	16.4 m²	0.4 m <sup>2</sup>				
Living	Level 0	18 m²	20.43 m <sup>2</sup>	2.43 m <sup>2</sup>				
		34 m²	36.83 m <sup>2</sup>	2.83 m <sup>2</sup>				
Other								
Bathroom	Level 0		3.61 m <sup>2</sup>					
Bathroom	Level 1		4.04 m <sup>2</sup>					
Bins	Level 0		1.45 m <sup>2</sup>					
Hall	Level 1		10.29 m²					
Hallway	Level 0		3.13 m <sup>2</sup>					
Hallway	Level 0		6.06 m <sup>2</sup>					
Plant	Level 0		0.77 m <sup>2</sup>					
		0 m²	29.35 m <sup>2</sup>	0 m²				
Store								
Closet	Level 1		1.37 m <sup>2</sup>					
Closet	Level 1		1.37 m <sup>2</sup>					
Store 1	Level 0		2.5 m <sup>2</sup>					
Store 2	Level 1		1.46 m²					
		0 m²	6.7 m <sup>2</sup>	0 m²				

## **HQA |** HOUSE H3AB

	ROOM DATA SCHEDULE				
ROOM INFOR	MATION	AREA REQUIREMENT			
Name	Level	Area Target	Actual Area	Difference m²	
Bedroom					
Bedroom 1	Level 1	13 m²	15.02 m <sup>2</sup>	2.02 m <sup>2</sup>	
Bedroom 2	Level 1	11.4 m²	11.44 m²	0.04 m <sup>2</sup>	
Bedroom 3	Level 1	7.1 m <sup>2</sup>	7.53 m <sup>2</sup>	0.43 m <sup>2</sup>	
		31.5 m <sup>2</sup>	33.99 m <sup>2</sup>	2.49 m²	
Living Area					
KLD	Level 0		38.52 m <sup>2</sup>		
		0 m²	38.52 m <sup>2</sup>	0 m²	
Other					
Bin Store	Level 0		1.45 m <sup>2</sup>		
Hall	Level 0		12.09 m <sup>2</sup>		
Hall	Level 1		10.29 m <sup>2</sup>		
Plant	Level 0		0.66 m <sup>2</sup>		
WC	Level 0		3.32 m <sup>2</sup>		
		0 m²	27.81 m <sup>2</sup>	0 m²	
Store					
Closet	Level 1		1.32 m <sup>2</sup>		
Closet	Level 1		1.32 m²		
Store	Level 0		2.1 m <sup>2</sup>		
Store	Level 1		1.46 m²		
		0 m²	6.2 m <sup>2</sup>	0 m²	









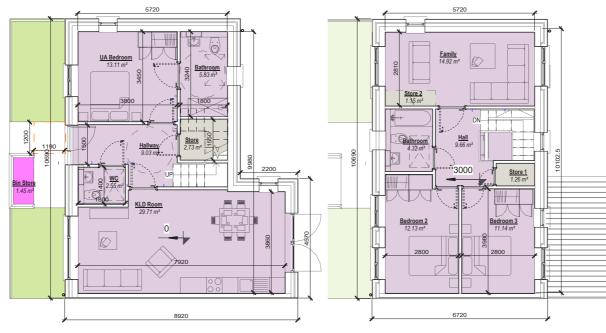
# **HQA |** HOUSE H3AC





	ROOM	II DATA SCHE	DULE	
ROOM INFORM	IATION	ARE	A REQUIREM	ENT
Name	Level	Area Target	Actual Area	Difference m²
Bedroom				
Bedroom 2	Level 1	11.4 m²	12.13 m²	0.73 m <sup>2</sup>
Bedroom 3	Level 1	11.4 m²	11.14 m²	-0.26 m <sup>2</sup>
UA Bedroom	Level 0	13 m²	13.11 m²	0.11 m <sup>2</sup>
		35.8 m <sup>2</sup>	36.39 m <sup>2</sup>	0.59 m <sup>2</sup>
Living Area				
Family	Level 1	7.1 m <sup>2</sup>	14.92 m²	7.82 m²
KLD Room	Level 0	30 m²	29.71 m²	-0.29 m <sup>2</sup>
		37.1 m <sup>2</sup>	44.63 m²	7.53 m²
Other				
Bin Store	Level 0	0 m <sup>2</sup>	1.45 m²	0 m <sup>2</sup>
Hall	Level 1	0 m <sup>2</sup>	9.66 m²	0 m²
Hallway	Level 0	0 m²	9.03 m <sup>2</sup>	0 m²
WC	Level 0	0 m²	2.55 m <sup>2</sup>	0 m²
		0 m <sup>2</sup>	22.68 m <sup>2</sup>	0 m²
Store				
Store		7 m²	2.73 m <sup>2</sup>	2.73 m <sup>2</sup>
Store 1	Level 1	0 m²	1.26 m <sup>2</sup>	0 m <sup>2</sup>
Store 2	Level 1	0 m²	1.15 m <sup>2</sup>	0 m²
		7 m²	5.14 m²	2.73 m <sup>2</sup>

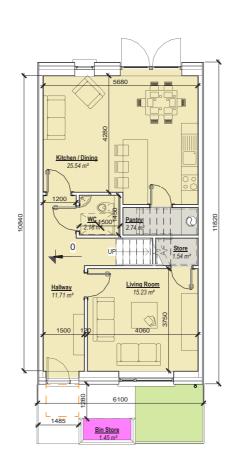




## **HQA |** HOUSE H4AA

ROOM DATA SCHEDULE				
ROOM INFORMA	NOITA	AREA REQUIREMENT		
Name	Level	Area Target	Actual Area	Difference m²
Bin Store	Level 0	0 m <sup>2</sup>	1.45 m²	0 m <sup>2</sup>
Hallway	Not Placed	0 m²	0 m²	0 m²
		0 m²	1.45 m²	0 m <sup>2</sup>
Bedroom				
Bedroom 1	Level 1	11.4 m²	13.87 m²	2.47 m <sup>2</sup>
Bedroom 2	Level 1	11.4 m²	11.44 m²	0.04 m <sup>2</sup>
Bedroom 3	Level 1	7.1 m²	8.04 m <sup>2</sup>	0.94 m <sup>2</sup>
Master Bedroom	Level 2	13 m²	17.49 m²	4.49 m²
		42.9 m <sup>2</sup>	50.84 m²	7.94 m <sup>2</sup>
Living Area				
Kitchen / Dining	Level 0	0 m <sup>2</sup>	25.54 m²	25.54 m <sup>2</sup>
Living Room	Level 0	15 m²	15.23 m²	0.23 m <sup>2</sup>
		15 m²	40.77 m²	25.77 m <sup>2</sup>
Other				
Ensuite	Level 2	0 m <sup>2</sup>	4.05 m <sup>2</sup>	0 m <sup>2</sup>
Hallway		0 m²	28.41 m²	0 m <sup>2</sup>
WC	Level 0	0 m²	2.18 m <sup>2</sup>	0 m <sup>2</sup>
		0 m²	34.64 m²	0 m <sup>2</sup>
Store				
Pantry	Level 0	0 m²	2.74 m <sup>2</sup>	0 m²
Store	Level 0	0 m²	1.54 m²	0 m²
Store 1	Level 1	0 m²	1.68 m <sup>2</sup>	1.68 m²
		0 m²	5.96 m <sup>2</sup>	1.68 m²







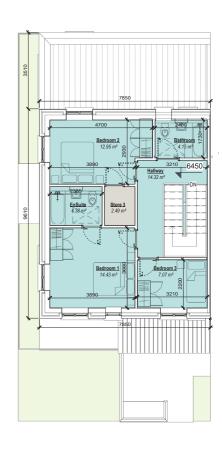


# **HQA |** DUPLEX D1AA





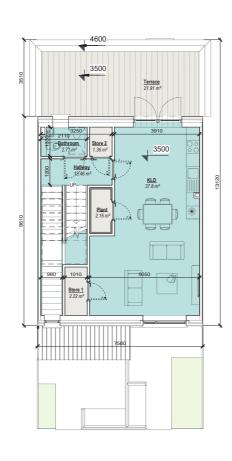


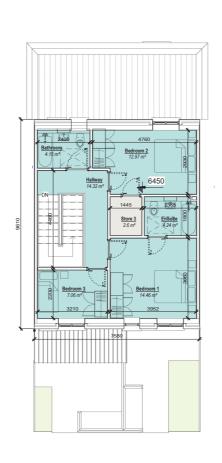


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APARTMENT ROOM DATA SCHEDULE					
ROOM INFORMA	ATION	AREA REQUIREMENT			
Name	Level	Area Target	Actual Area	Difference m²	
Bedroom					
Bedroom 1	Level 0	13 m²	15.01 m <sup>2</sup>	2.01 m <sup>2</sup>	
Bedroom 2	Level 0	11.4 m²	11.67 m²	0.27 m <sup>2</sup>	
		24.4 m²	26.68 m <sup>2</sup>	2.28 m <sup>2</sup>	
Living Area					
KLD	Level 0	28 m²	30.46 m <sup>2</sup>	2.46 m <sup>2</sup>	
		28 m²	30.46 m <sup>2</sup>	2.46 m²	
Other					
Bathroom	Level 0		4.18 m <sup>2</sup>		
Bike Store	Level 0		1.33 m²		
Ensuite	Level 0		4.36 m <sup>2</sup>		
Hall	Level 0		5.68 m <sup>2</sup>		
Plant	Level 0		2.16 m <sup>2</sup>		
		0 m²	17.71 m²	0 m²	
Store					
Store 1	Level 0		2.12 m <sup>2</sup>		
Store 2	Level 0		1.65 m <sup>2</sup>		
Store 3	Level 0		1.75 m <sup>2</sup>		
Store 4	Level 0		1.05 m <sup>2</sup>		
		0 m²	6.58 m²	0 m²	

DUPLEX ROOM DATA SCHEDULE					
TION	AREA REQUIREMENT				
Level	Area Target	Actual Area	Difference m²		
Level 2	13 m²	14.43 m²	1.43 m²		
Level 2	11.4 m²	12.95 m²	1.55 m²		
Level 2	7.1 m <sup>2</sup>	7.07 m <sup>2</sup>	-0.03 m²		
	31.5 m <sup>2</sup>	34.45 m <sup>2</sup>	2.95 m <sup>2</sup>		
Level 1	34 m²	37.71 m²	3.71 m <sup>2</sup>		
	34 m²	37.71 m²	3.71 m <sup>2</sup>		
Level 2		4.15 m <sup>2</sup>			
Level 1		2.71 m <sup>2</sup>			
Level 0		1.4 m²			
Level 0		1.48 m²			
Level 2		4.38 m²			
Level 2		14.32 m²			
Level 1		4.23 m <sup>2</sup>			
Level 1		2.16 m <sup>2</sup>			
Level 1		22.01 m <sup>2</sup>			
	0 m²	56.84 m²	0 m²		
Level 1		1.36 m²			
Level 1		2.22 m <sup>2</sup>			
Level 2		2.49 m <sup>2</sup>			
	0 m²	6.07 m <sup>2</sup>	0 m²		
	Level 2 Level 1 Level 0 Level 0 Level 2 Level 1	Level 2	Level 2		





APARTMENT ROOM DATA SCHEDULE					
ROOM INFORMA	TION	AREA REQUIREMENT			
Name	Level	Area Target	Actual Area	Difference m²	
Bedroom					
Bedroom 1	Level 0	13 m²	13.1 m²	0.1 m <sup>2</sup>	
Bedroom 2	Level 0	11.4 m²	11.69 m²	0.29 m <sup>2</sup>	
		24.4 m²	24.8 m²	0.4 m²	
Living Area					
Kitchen-Living-Dinin g	Level 0	28 m²	30.38 m <sup>2</sup>	2.38 m²	
-		28 m²	30.38 m²	2.38 m²	
Other					
Bathroom	Level 0		4.32 m²		
Bike Store	Level 0		1.33 m²		
Bin Store	Level 0		1.52 m²		
Ensuite	Level 0		4.48 m²		
Hall	Level 0		9.43 m²		
Plant	Level 0		2.16 m <sup>2</sup>		
		0 m²	23.24 m²	0 m <sup>2</sup>	
Store					
Store 1	Level 0		1.76 m²		
Store 2	Level 0		2.18 m <sup>2</sup>		
Store 3	Level 0		1.09 m²		
		0 m²	5.03 m <sup>2</sup>	0 m²	

DUPLEX ROOM DATA SCHEDULE					
ROOM INFORM	MATION	AREA REQUIREMENT			
Name	Level	Area Target	Actual Area	Difference m²	
Bedroom					
Bedroom 1	Level 2	13 m²	14.46 m²	1.46 m²	
Bedroom 2	Level 2	11.4 m²	12.97 m²	1.57 m²	
Bedroom 3	Level 2	7.1 m <sup>2</sup>	7.06 m <sup>2</sup>	-0.04 m <sup>2</sup>	
		31.5 m <sup>2</sup>	34.49 m <sup>2</sup>	2.99 m²	
Living Area					
KLD	Level 1	34 m²	37.8 m <sup>2</sup>	3.8 m <sup>2</sup>	
		34 m²	37.8 m <sup>2</sup>	3.8 m <sup>2</sup>	
Other					
Bathroom	Level 2		4.15 m <sup>2</sup>		
Bathroom	Level 1		2.71 m <sup>2</sup>		
Bike Store	Level 0		1.45 m <sup>2</sup>		
Bin Store	Level 0		1.48 m²		
EnSuite	Level 2		4.24 m <sup>2</sup>		
Hallway	Level 1		13.46 m²		
Hallway	Level 2		14.32 m²		
Porch	Level 0		1.55 m <sup>2</sup>		
Terrace	Level 1		21.91 m <sup>2</sup>		
		0 m²	65.27 m <sup>2</sup>	0 m²	
Store 1					
Plant	Level 1		2.16 m <sup>2</sup>		
Store 1	Level 1		2.22 m²		
Store 2	Level 1		1.36 m²		
Store 3	Level 2		2.6 m <sup>2</sup>		
		0 m²	8.34 m²	0 m²	

#### **HQA** | DUPLEX D1AB

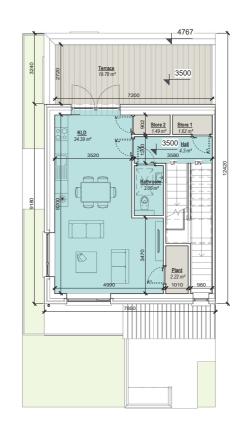




### **HQA** DUPLEX D2AA







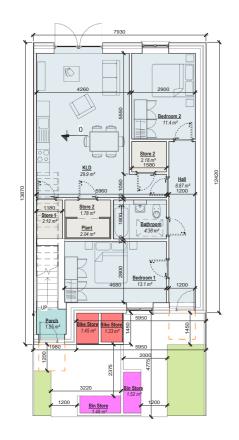




APARTMENT ROOM DATA SCHEDULE					
ROOM INFORMATION		AREA REQUIREMENT			
Name	Level	Area Target	Actual Area	Difference m²	
Bedroom					
Bedroom 1	Level 0	13 m²	15.01 m <sup>2</sup>	2.01 m <sup>2</sup>	
Bedroom 2	Level 0	11.4 m²	12.42 m²	1.02 m²	
		24.4 m²	27.43 m <sup>2</sup>	3.03 m <sup>2</sup>	
Living Area					
KLD	Level 0		28.84 m²		
		0 m²	28.84 m²	0 m <sup>2</sup>	
Other					
Bathroom	Level 0		4.32 m²		
Hall	Level 0		4.61 m <sup>2</sup>		
Plant	Level 0		2.16 m <sup>2</sup>		
		0 m²	11.09 m <sup>2</sup>	0 m²	
Store					
Bike Store	Level 0		1.33 m <sup>2</sup>		
Store 1	Level 0		1.65 m <sup>2</sup>		
Store 2	Level 0		2.05 m <sup>2</sup>		
Store 3	Level 0		1.68 m²		
Store 4	Level 0		2.54 m <sup>2</sup>		
		0 m²	9.26 m <sup>2</sup>	0 m²	

DUPLEX ROOM DATA SCHEDULE					
ROOM INFORMA			A REQUIREM	ENT	
Name	Level	Area Target	Actual Area	Difference m²	
Plant	Level 1		2.22 m <sup>2</sup>		
		0 m²	2.22 m <sup>2</sup>	0 m²	
edroom					
Bedroom 1	Level 2	13 m²	13.53 m²	0.53 m <sup>2</sup>	
Bedroom 2	Level 2	11.4 m²	11.73 m²	0.33 m <sup>2</sup>	
Bedroom 3	Level 2	7.1 m <sup>2</sup>	7.07 m <sup>2</sup>	-0.03 m <sup>2</sup>	
		31.5 m <sup>2</sup>	32.33 m <sup>2</sup>	0.83 m <sup>2</sup>	
iving Area					
KLD	Level 1	34 m²	34.39 m <sup>2</sup>	0.39 m <sup>2</sup>	
		34 m²	34.39 m <sup>2</sup>	0.39 m <sup>2</sup>	
ther					
Bathroom	Level 1	0 m²	3.06 m <sup>2</sup>	3.06 m <sup>2</sup>	
Bathroom	Level 2		4.29 m <sup>2</sup>		
Bin Store	Level 0		1.48 m²		
Hall	Level 1		4.3 m <sup>2</sup>		
Porch	Level 0		4.36 m <sup>2</sup>		
Terrace	Level 1		19.78 m²		
		0 m²	37.28 m <sup>2</sup>	3.06 m <sup>2</sup>	
tore					
Bike Store	Level 0		1.4 m <sup>2</sup>		
Store 1	Level 1		1.62 m <sup>2</sup>		
Store 2	Level 1		1.49 m²		
Store 3	Level 2		2.88 m <sup>2</sup>		
Store 4	Level 2		2.58 m <sup>2</sup>		

#### **HQA** | DUPLEX D2AB









APA	APARTMENT ROOM DATA SCHEDULE				
ROOM INFORMATION		AREA REQUIREMENT			
Name	Level	Area Target	Actual Area	Difference m²	
Bedroom					
Bedroom 1	Level 0	13 m²	13.1 m²	0.1 m²	
Bedroom 2	Level 0	11.4 m²	11.4 m²	0 m²	
		24.4 m²	24.5 m <sup>2</sup>	0.1 m²	
Living Area					
KLD	Level 0	28 m²	29.9 m <sup>2</sup>	1.9 m²	
		28 m²	29.9 m²	1.9 m²	
Other					
Bathroom	Level 0		4.36 m²		
Bin Store	Level 0		1.52 m²		
Hall	Level 0		8.87 m²		
Plant	Level 0		2.04 m <sup>2</sup>		
		0 m²	16.78 m²	0 m²	
Store					
Bike Store	Level 0		1.33 m²		
Store 1	Level 0		2.12 m <sup>2</sup>		
Store 2	Level 0		1.78 m²		
Store 2	Level 0		2.18 m <sup>2</sup>		
		0 m²	7.42 m²	0 m²	

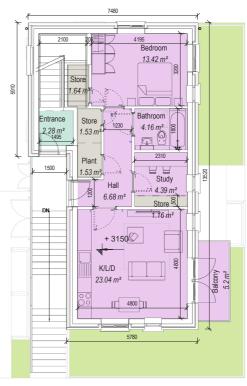
DUPLEX ROOM DATA SCHEDULE					
ROOM INFORM	MATION	AREA REQUIREMENT			
Name	Level	Area Target	Actual Area	Difference m²	
Bedroom					
Bedroom 1	Level 2	13 m²	13.14 m²	0.14 m <sup>2</sup>	
Bedroom 2	Level 2	11.4 m²	11.97 m²	0.57 m <sup>2</sup>	
Bedroom 3	Level 2	7.1 m²	7.15 m <sup>2</sup>	0.05 m <sup>2</sup>	
		31.5 m <sup>2</sup>	32.26 m <sup>2</sup>	0.76 m <sup>2</sup>	
Living Area					
KLD	Level 1	34 m²	34.53 m²	0.53 m <sup>2</sup>	
		34 m²	34.53 m <sup>2</sup>	0.53 m <sup>2</sup>	
Other					
Bathroom	Level 1		3 m²		
Bathroom	Level 2		4.22 m²		
Bin Store	Level 0		1.48 m²		
Hall	Level 1		4.3 m <sup>2</sup>		
Hall	Level 2		14.55 m²		
Plant	Level 1		2.24 m <sup>2</sup>		
Porch	Level 0		1.55 m²		
Terrace	Level 1		19.95 m²		
		0 m²	51.29 m²	0 m <sup>2</sup>	
Store					
Bike Store	Level 0		1.45 m²		
Store 1	Level 1		1.61 m <sup>2</sup>		
Store 2	Level 1		1.5 m²		
Store 3	Level 2		2.88 m <sup>2</sup>		
Store 4	Level 2		2.6 m <sup>2</sup>		
		0 m <sup>2</sup>	10.04 m²	0 m²	

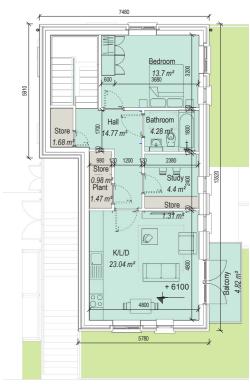


# **HQA |** TRIPLEX T1AA (3 STACKED SIMPLEX)









	ROOM	I DATA SCHE	DULE - APAR	TMENT 1	
	ROOM INFORMA	AREA REQUIREMENT			
Level	Name	Occupancy	Area Target	Actual Area	Difference m²
Bedroo	m				
00	Bedroom 1		13.00 m <sup>2</sup>	13.44 m²	0.44 m <sup>2</sup>
00	Bedroom 2		7.10 m <sup>2</sup>	7.62 m <sup>2</sup>	0.52 m <sup>2</sup>
			20.10 m <sup>2</sup>	21.06 m <sup>2</sup>	0.96 m <sup>2</sup>
Living A	Area				
00	K/L/D		28.00 m <sup>2</sup>	28.76 m <sup>2</sup>	0.76 m <sup>2</sup>
			28.00 m <sup>2</sup>	28.76 m <sup>2</sup>	0.76 m <sup>2</sup>
Other					
00	Bathroom			4.11 m <sup>2</sup>	
00	Hall			8.09 m <sup>2</sup>	
00	Plant			1.87 m <sup>2</sup>	
			0.00 m <sup>2</sup>	14.08 m²	0.00 m <sup>2</sup>
Store					
00	Store			2.25 m <sup>2</sup>	
00	Store			1.72 m²	
			0.00 m <sup>2</sup>	3.97 m <sup>2</sup>	0.00 m <sup>2</sup>

	ROOM	M DATA SCHE	DULE - APAR	TMENT 2		
	ROOM INFORMA	TION	ARI	A REQUIREM	REMENT	
Level	Name	Occupancy	Area Target	Actual Area	Difference m²	
Bedroo	m					
01	Bedroom		13.00 m <sup>2</sup>	13.42 m²	0.42 m <sup>2</sup>	
			13.00 m <sup>2</sup>	13.42 m²	0.42 m <sup>2</sup>	
Living A	Area					
01	K/L/D		23.00 m <sup>2</sup>	23.04 m²	0.04 m <sup>2</sup>	
			23.00 m <sup>2</sup>	23.04 m <sup>2</sup>	0.04 m <sup>2</sup>	
Other						
01	Balcony			5.20 m <sup>2</sup>		
01	Bathroom			4.16 m <sup>2</sup>		
00	Bins			1.27 m <sup>2</sup>		
01	Hall			6.68 m <sup>2</sup>		
01	Plant			1.53 m <sup>2</sup>		
01	Study			4.39 m <sup>2</sup>		
			0.00 m <sup>2</sup>	23.23 m²	0.00 m <sup>2</sup>	
Store						
00	Bike Store			2.27 m <sup>2</sup>		
01	Store			1.53 m²		
01	Store			1.16 m²		
01	Store			1.64 m²		
			0.00 m <sup>2</sup>	6.60 m <sup>2</sup>	0.00 m <sup>2</sup>	

	ROOM	M DATA SCHE	DULE - APAR	TMENT 3			
	ROOM INFORMA	TION	AREA REQUIREMENT				
Level	Name	Occupancy	Area Target	Actual Area	Difference m²		
Bedroo	m						
02	Bedroom		13.00 m <sup>2</sup>	13.70 m²	0.70 m <sup>2</sup>		
			13.00 m <sup>2</sup>	13.70 m²	0.70 m²		
Living A	Area						
02	K/L/D		23.00 m <sup>2</sup>	23.04 m <sup>2</sup>	0.04 m <sup>2</sup>		
			23.00 m <sup>2</sup>	23.04 m <sup>2</sup>	0.04 m <sup>2</sup>		
Other							
02	Balcony			4.82 m²			
02	Bathroom			4.28 m <sup>2</sup>			
00	Bins			1.27 m <sup>2</sup>			
01	Entrance			2.28 m <sup>2</sup>			
02	Hall			14.77 m²			
02	Plant			1.47 m²			
02	Study			4.40 m²			
			0.00 m <sup>2</sup>	33.31 m²	0.00 m <sup>2</sup>		
Store							
00	Bike Store			2.20 m <sup>2</sup>			
02	Store			1.68 m²			
02	Store			1.31 m <sup>2</sup>			
02	Store			0.98 m <sup>2</sup>			
			0.00 m <sup>2</sup>	6.16 m <sup>2</sup>	0.00 m <sup>2</sup>		

# **HQA |** TRIPLEX T2AA (3 STACKED SIMPLEX)



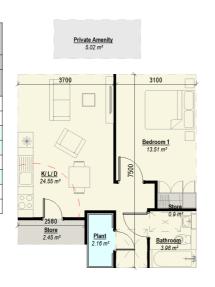
	ROOM DATA SCHEDULE - APARTMENT 1								
	ROOM INFORMA	TION	AREA REQUIREMENT						
Level	Name	Occupancy	Area Target   Actual Area		Difference m²				
Bedroo	m								
00	Bedroom 1		13.00 m <sup>2</sup>	13.44 m²	0.44 m²				
			13.00 m <sup>2</sup>	13.44 m²	0.44 m²				
Living A	Area								
00	K/L/D		23.00 m <sup>2</sup>	25.60 m <sup>2</sup>	2.60 m <sup>2</sup>				
			23.00 m <sup>2</sup>	25.60 m <sup>2</sup>	2.60 m <sup>2</sup>				
Other									
00	Bathroom			5.50 m <sup>2</sup>					
00	Hall			7.59 m²					
00	Plant			1.33 m²					
00	Study		5.00 m <sup>2</sup>	5.72 m <sup>2</sup>	0.72 m <sup>2</sup>				
			5.00 m <sup>2</sup>	20.15 m <sup>2</sup>	0.72 m²				
Store									
00	Store			2.25 m <sup>2</sup>					
00	Store			1.15 m²					
			0.00 m <sup>2</sup>	3.40 m <sup>2</sup>	0.00 m <sup>2</sup>				

	ROOM	DATA SCHE	DULE - APAR	TMENT 2	
	ROOM INFORMATION			A REQUIREM	ENT
Level	Name	Occupancy	Area Target	Actual Area	Difference m²
Bedroo	m				
01	Bedroom		13.00 m <sup>2</sup>	13.34 m²	0.34 m²
			13.00 m <sup>2</sup>	13.34 m²	0.34 m²
Living A	Area				
01	K/L/D		23.00 m <sup>2</sup>	23.22 m²	0.22 m <sup>2</sup>
			23.00 m <sup>2</sup>	23.22 m²	0.22 m <sup>2</sup>
Other					
01	Balcony			5.19 m²	
01	Bathroom			4.21 m²	
01	Hall			5.50 m <sup>2</sup>	
01	Plant			2.16 m <sup>2</sup>	
			0.00 m <sup>2</sup>	17.06 m²	0.00 m <sup>2</sup>
Store					
00	Bike Store			2.37 m²	
01	Store			1.56 m²	
01	Store			2.11 m <sup>2</sup>	
			0.00 m <sup>2</sup>	6.04 m²	0.00 m <sup>2</sup>

	ROOM	DATA SCHE	DULE - APAR	TMENT 3	
	ROOM INFORMAT	ION	ARE	A REQUIREM	ENT
Level	Name	Occupancy	Area Target	Actual Area	Difference m²
Bedroo	m				
02	Bedroom		13.00 m <sup>2</sup>	13.61 m²	0.61 m <sup>2</sup>
			13.00 m <sup>2</sup>	13.61 m²	0.61 m <sup>2</sup>
Living A	\rea				
02	K/L/D		23.00 m <sup>2</sup>	25.60 m <sup>2</sup>	2.60 m <sup>2</sup>
			23.00 m <sup>2</sup>	25.60 m <sup>2</sup>	2.60 m <sup>2</sup>
Other					
02	Balcony			4.82 m²	
02	Bathroom			3.96 m <sup>2</sup>	
01	Entrance			2.41 m <sup>2</sup>	
02	Hall			11.86 m²	
02	Plant			1.63 m <sup>2</sup>	
			0.00 m <sup>2</sup>	24.68 m²	0.00 m <sup>2</sup>
Store					
00	Bike Store			2.10 m <sup>2</sup>	
02	Store			1.95 m <sup>2</sup>	
02	Store			2.01 m <sup>2</sup>	
			0.00 m <sup>2</sup>	6.06 m <sup>2</sup>	0.00 m <sup>2</sup>

### **HQA** APARTMENT BLOCK

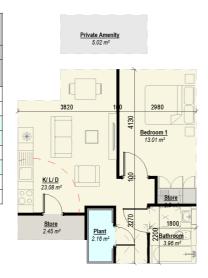
			1 Bed Type 01-A01			
		ROOM REC	QUIREMENT		DIMENSION R	EQUIREMENT
Occupancy	Name	Min Area (m²)	Actual Area (m²)	Difference (m²)	Min Width (m)	Compliance Check
1B 2P	Bathroom		3.96 m <sup>2</sup>			
1B 2P	Bedroom 1	13.00 m <sup>2</sup>	13.51 m²	0.51 m <sup>2</sup>	2.80	Yes
1B 2P	K/ L/ D	23.00 m <sup>2</sup>	24.55 m²	1.55 m²	3.30	Yes
1B 2P	Plant		2.16 m <sup>2</sup>			
1B 2P	Private Amenity	5.00 m <sup>2</sup>	5.02 m <sup>2</sup>	0.02 m <sup>2</sup>	1.50	Yes
1B 2P	Store		0.90 m <sup>2</sup>			No
1B 2P	Store		2.45 m <sup>2</sup>			



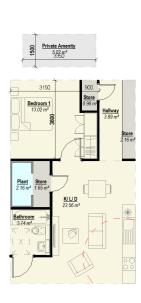
		ROOM REC	QUIREMENT		DIMENSION R	EQUIREMEN
Occupancy	Name	Min Area (m²)	Actual Area (m²)	Difference (m²)	Min Width (m)	Compliar Check
1B 2P	Bathroom		3.74 m²			
1B 2P	Bedroom 1	13.00 m <sup>2</sup>	13.02 m²	0.02 m <sup>2</sup>	2.80	Yes
1B 2P	Hallway		2.28 m²			
1B 2P	K/ L/ D	23.00 m <sup>2</sup>	26.01 m²	3.01 m <sup>2</sup>	3.30	Yes
1B 2P	Plant		2.16 m²			
1B 2P	Private Amenity	5.00 m <sup>2</sup>	5.02 m²	0.02 m <sup>2</sup>	1.50	Yes
1B 2P	Store		1.26 m²			No
1B 2P	Store		0.98 m²			No
1B 2P	Store		1.65 m²			



	1 Bed Type 01-C01							
		ROOM REC	QUIREMENT		DIMENSION R	EQUIREMENT		
Occupancy	Name	Min Area (m²)	Actual Area (m²)	Difference (m²)	Min Width (m)	Compliance Check		
1B 2P	Bathroom		3.96 m <sup>2</sup>					
1B 2P	Bedroom 1	13.00 m²	13.01 m²	0.01 m <sup>2</sup>	2.80	Yes		
1B 2P	K/ L/ D	23.00 m <sup>2</sup>	23.08 m²	0.08 m <sup>2</sup>	3.30	Yes		
1B 2P	Plant		2.16 m <sup>2</sup>					
1B 2P	Private Amenity	5.00 m <sup>2</sup>	5.02 m <sup>2</sup>	0.02 m <sup>2</sup>	1.50	Yes		
1B 2P	Store		2.45 m²					
	Store		0.90 m <sup>2</sup>					



	1 Bed Type 02-B01							
		ROOM REC	QUIREMENT		DIMENSION R	EQUIREMENT		
Occupancy	Name	Min Area (m²)	Actual Area (m²)	Difference (m²)	Min Width (m)	Compliance Check		
1B 2P	Bathroom		3.74 m²					
1B 2P	Bedroom 1	13.00 m²	13.02 m²	0.02 m <sup>2</sup>	2.80	Yes		
1B 2P	Hallway		3.89 m²					
1B 2P	K/ L/ D	23.00 m <sup>2</sup>	23.56 m²	0.56 m <sup>2</sup>	3.30	Yes		
1B 2P	Plant		2.16 m²					
1B 2P	Private Amenity	5.00 m <sup>2</sup>	5.02 m²	0.02 m <sup>2</sup>	1.50	Yes		
1B 2P	Store		2.16 m <sup>2</sup>			No		
1B 2P	Store		0.98 m²			No		
1B 2P	Store		1.65 m²					



## **HQA |** APARTMENT BLOCK

2 Bed Type 01-A01								
		ROOM REC	QUIREMENT		DIMENSION R	EQUIREMENT		
Occupancy	Name	Min Area (m²)	Actual Area (m²)	Difference (m²)	Min Width (m)	Compliance Check		
2B 4P	Bathroom		3.78 m²					
2B 4P	Bedroom 1	13.00 m <sup>2</sup>	13.40 m <sup>2</sup>	0.40 m <sup>2</sup>	2.80	Yes		
2B 4P	Bedroom 2	11.40 m²	13.42 m²	2.02 m <sup>2</sup>	2.80	Yes		
2B 4P	Hallway		7.41 m²					
2B 4P	K/ L/ D	28.00 m <sup>2</sup>	28.31 m²	0.31 m <sup>2</sup>	3.60	Yes		
2B 4P	Plant		2.16 m <sup>2</sup>					
2B 4P	Private Amenity	6.00 m <sup>2</sup>	7.13 m²	1.13 m²	1.50	Yes		
2B 4P	Store		2.52 m²			No		
2B 4P	Store		1.31 m²			No		
2B 4P	Store		0.96 m <sup>2</sup>					
2B 4P	Store		1.48 m²					





	2 Bed Type 01-C01								
		ROOM REC	QUIREMENT		DIMENSION R	EQUIREMENT			
Occupancy	Name	Min Area (m²)	Actual Area (m²)	Difference (m²)	Min Width (m)	Compliance Check			
2B 4P	Bathroom		3.78 m²						
2B 4P	Bedroom 1	13.00 m²	13.42 m²	0.42 m²	2800.00	Yes			
2B 4P	Bedroom 2	11.40 m²	11.42 m²	0.02 m <sup>2</sup>	2800.00	Yes			
2B 4P	Hallway		7.41 m²						
2B 4P	K/L/D	28.00 m <sup>2</sup>	28.31 m²	0.31 m <sup>2</sup>	3600.00	Yes			
2B 4P	Plant		2.16 m²						
2B 4P	Private Amenity	6.00 m <sup>2</sup>	7.13 m²	1.13 m²		Yes			
2B 4P	Store		2.52 m²			No			
2B 4P	Store		1.31 m²			No			
2B 4P	Store		0.96 m²						
2B 4P	Store		1.48 m²						









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