

BESS Report

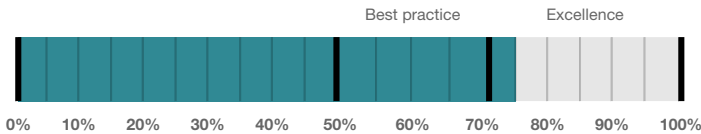
Built Environment Sustainability Scorecard



This BESS report outlines the sustainable design commitments of the proposed development at Ripplside Ripplside VIC 3215. The BESS report and accompanying documents and evidence are submitted in response to the requirement for a Sustainable Design Assessment or Sustainability Management Plan at Greater Geelong City Council.

Note that where a Sustainability Management Plan is required, the BESS report must be accompanied by a report that further demonstrates the development's potential to achieve the relevant environmental performance outcomes and documents the means by which the performance outcomes can be achieved.

Your BESS Score



77%

Project details

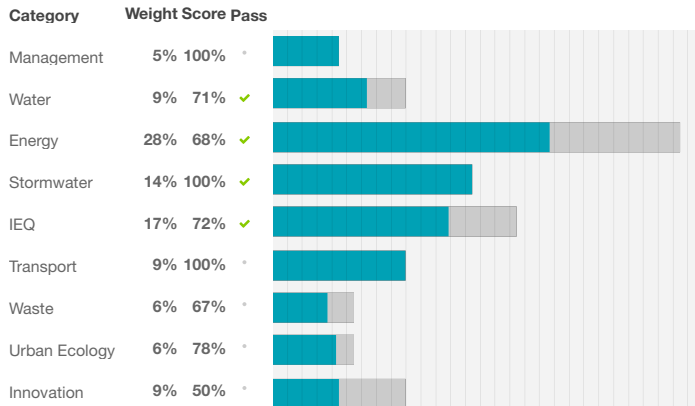
Address Ripplside Ripplside VIC 3215
Project no 7EC96DA1-R5
BESS Version BESS-5

Site type Mixed use development
Account esd@acor.com.au
Application no.
Site area 4,255.00 m²
Building floor area 6,832.50 m²
Date 15 July 2022
Software version 1.7.0-B.386

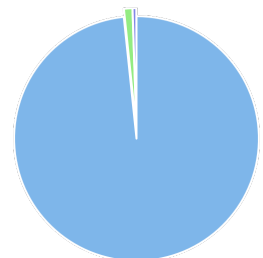


Performance by category

● Your development ● Maximum available



Building Type composition



● Apartment ● Shop ● Office Building

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Dwellings & Non Res Spaces

Dwellings

Name	Quantity	Area	% of total area
Apartment			
Dwelling 1	84	80.0 m ²	98%
Total	84	6,720 m²	98%

Non-Res Spaces

Name	Quantity	Area	% of total area
Office Building			
Office Building 1	1	34.7 m ²	< 1%
Total	1	34 m²	< 1%
Shop			
Shop 1	1	77.8 m ²	1%
Total	1	77 m²	1%

Supporting information

Floorplans & elevation notes

Credit	Requirement	Response	Status
Management 3.1	Individual utility meters annotated	To be printed Refer VIC200313_ESD SMP_C_220714 Page 13	✓
Management 3.2	Individual utility meters annotated	To be printed Refer VIC200313_ESD SMP_C_220714 Page 13	✓
Management 3.3	Common area submeters annotated		-
Water 3.1	Water efficient garden annotated	To be printed Refer Landscaping plans	✓
Energy 3.1	Carpark with natural ventilation or CO monitoring system		-
Energy 4.2	Floor plans showing location of photovoltaic panels as described.	To be printed Refer VIC200313_ESD SMP_C_220714 Page 23	✓
Stormwater 1.1	Location of any stormwater management systems used in STORM or MUSIC modelling (e.g. Rainwater tanks, raingarden, buffer strips)	To be printed Refer VIC200313_ESD SMP_C_220714 Page 25 & 26	✓
IEQ 1.1	If using BESS daylight calculator, references to floorplans and elevations showing window sizes and sky angles.	To be printed Refer VIC200313_ESD SMP_C_220714 Page 27 & 48 - 51	✓
IEQ 1.2	If using BESS daylight calculator, references to floorplans and elevations showing window sizes and sky angles.	To be printed Refer VIC200313_ESD SMP_C_220714 Page 27 & 48 - 51	✓
IEQ 1.5	Floor plans with compliant bedrooms marked	To be printed Refer VIC200313_ESD SMP_C_220714 Page 48 - 51	✓
IEQ 2.1	Dwellings meeting the requirements for being 'naturally ventilated'	To be printed Refer VIC200313_ESD SMP_C_220714 Page 28 - 30	✓

Credit	Requirement	Response	Status
Transport 1.1	All nominated residential bicycle parking spaces	To be printed Refer VIC200313_ESD SMP_C_220714 Page 37	✓
Transport 1.2	All nominated residential visitor bicycle parking spaces	To be printed Refer VIC200313_ESD SMP_C_220714 Page 37	✓
Transport 1.3	Residential bicycle parking spaces at ground level	To be printed Refer VIC200313_ESD SMP_C_220714 Page 37	✓
Transport 1.4	All nominated non-residential bicycle parking spaces	To be printed Refer VIC200313_ESD SMP_C_220714 Page 37	✓
Transport 1.5	All nominated non-residential visitor bicycle parking spaces	To be printed Refer VIC200313_ESD SMP_C_220714 Page 37	✓
Transport 2.1	Location of electric vehicle charging infrastructure	To be printed Refer VIC200313_ESD SMP_C_220714 Page 38	✓
Transport 2.2	Location of car share parking space	To be printed Refer VIC200313_ESD SMP_C_220714 Page 39	✓
Transport 2.3	All nominated motorbicycle parking spaces	To be printed Refer VIC200313_ESD SMP_C_220714 Page 39 & 40	✓
Waste 2.1	Location of food and garden waste facilities	To be printed Refer VIC200313_ESD SMP_C_220714 Page 41	✓
Waste 2.2	Location of recycling facilities	To be printed Refer VIC200313_ESD SMP_C_220714 Page 41	✓
Urban Ecology 1.1	Size and location of communal spaces	To be printed Refer VIC200313_ESD SMP_C_220714 Page 42	✓
Urban Ecology 2.1	Vegetated areas	To be printed Refer VIC200313_ESD SMP_C_220714 Page 42	✓
Urban Ecology 2.2	Green roof	To be printed Refer VIC200313_ESD SMP_C_220714 Page 44	✓
Urban Ecology 3.1	Food production areas	To be printed Refer VIC200313_ESD SMP_C_220714 & Landscaping plans	✓

Supporting evidence

Credit	Requirement	Response	Status
Management 2.2	Preliminary NatHERS assessments		-
Management 2.3	Preliminary modelling report	To be printed VIC200313_Prelim NatHERS Report_A_210430 Preliminary NatHERS report	✓
Management 2.4	Section J glazing assessment	To be printed VIC200313_DTS Section J Report_A_210427 See Appendix A for Glazing assessment	✓
Energy 1.1	Energy Report showing calculations of reference case and proposed buildings		-

Credit	Requirement	Response	Status
Energy 3.1	Provide a written explanation of either the fully natural carpark ventilation or carbon monoxide monitoring, describing how these systems will work, what systems are required for them to be fully integrated and who will be responsible for their implementation throughout the design, procurement and operational phases of the building life.		-
Energy 3.6	Provide a written description of the average lighting power density to be installed in the development and specify the lighting type(s) to be used.		-
Energy 3.7	Provide a written description of the average lighting power density to be installed in the development and specify the lighting type(s) to be used.		-
Energy 4.2	Specifications of the solar photovoltaic system(s).		-
Stormwater 1.1	STORM report or MUSIC model	To be printed VIC200313_ESD SMP_A_210429 Refer VIC200313_ESD SMP_B_210506 Page 25 & 26	✓
IEQ 1.1	If using an alternative daylight modelling program, a short report detailing assumptions used and results achieved.		-
IEQ 1.2	If using an alternative daylight modelling program, a short report detailing assumptions used and results achieved.		-
IEQ 1.5	A list of compliant bedrooms	To be printed VIC200313_ESD SMP_A_210429 Refer VIC200313_ESD SMP_B_210506 Page 48 - 51	✓
IEQ 2.1	A list of naturally ventilated dwellings		-

Credit summary

Management Overall contribution 4.5%

		100%
1.1 Pre-Application Meeting		100%
2.2 Thermal Performance Modelling - Multi-Dwelling Residential		100%
2.3 Thermal Performance Modelling - Non-Residential		100%
2.4 Thermal Performance Modelling - Non-Residential		100%
3.1 Metering		100%
3.2 Metering		100%
3.3 Metering		100%
4.1 Building Users Guide		100%

Water Overall contribution 9.0%

		Minimum required 50%	71%	✓ Pass
1.1 Potable water use reduction			60%	
3.1 Water Efficient Landscaping			100%	
4.1 Building Systems Water Use Reduction			100%	

Energy Overall contribution 27.5%

		Minimum required 50%	68%	✓ Pass
1.1 Thermal Performance Rating - Non-Residential			38%	
1.2 Thermal Performance Rating - Residential			67%	
2.1 Greenhouse Gas Emissions			100%	
2.2 Peak Demand			2%	
2.3 Electricity Consumption			100%	
2.4 Gas Consumption			N/A	✦ Scoped Out
No gas connection in use				
3.1 Carpark Ventilation			100%	
3.2 Hot Water			2%	
3.4 Clothes Drying			0%	
3.6 Internal Lighting - Residential Multiple Dwellings			100%	
3.7 Internal Lighting - Non-Residential			100%	
4.1 Combined Heat and Power (cogeneration / trigeneration)			N/A	✦ Scoped Out
No cogeneration or trigeneration system in use.				
4.2 Renewable Energy Systems - Solar			98%	
4.4 Renewable Energy Systems - Other			0%	

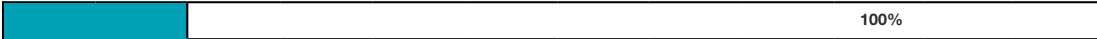






Stormwater Overall contribution 13.5%

		Minimum required 100%	100%	✓ Pass
1.1 Stormwater Treatment			100%	

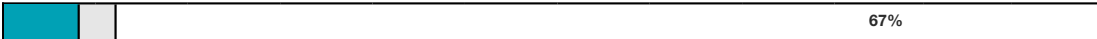
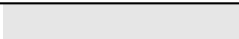
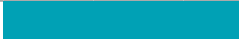

IEQ Overall contribution 16.5%

		Minimum required 50%	72%	✓ Pass
1.1 Daylight Access - Living Areas			67%	
1.2 Daylight Access - Bedrooms			100%	
1.3 Winter Sunlight			0%	
1.4 Daylight Access - Non-Residential			0%	
1.5 Daylight Access - Minimal Internal Bedrooms			100%	
2.1 Effective Natural Ventilation			67%	

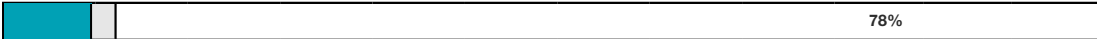

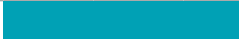


Transport Overall contribution 9.0%

		100%
1.1 Bicycle Parking - Residential		100%
1.2 Bicycle Parking - Residential Visitor		100%
1.3 Bicycle Parking - Convenience Residential		100%
1.4 Bicycle Parking - Non-Residential		100%
1.5 Bicycle Parking - Non-Residential Visitor		100%
1.6 End of Trip Facilities - Non-Residential		0%
2.1 Electric Vehicle Infrastructure		100%
2.2 Car Share Scheme		100%
2.3 Motorbikes / Mopeds		100%

Waste Overall contribution 5.5%

		67%
1.1 - Construction Waste - Building Re-Use		0%
2.1 - Operational Waste - Food & Garden Waste		100%
2.2 - Operational Waste - Convenience of Recycling		100%

Urban Ecology Overall contribution 5.5%

		78%
1.1 Communal Spaces		100%
2.1 Vegetation		100%
2.2 Green Roofs		100%
2.3 Green Walls and Facades		0%
2.4 Private Open Space - Balcony / Courtyard Ecology		0%
3.1 Food Production - Residential		100%
3.2 Food Production - Non-Residential		0%

Innovation Overall contribution 9.0%

		50%
1.1 Innovation		50%

Credit breakdown

Management Overall contribution 4%

1.1 Pre-Application Meeting	100%
Score Contribution	This credit contributes 37.4% towards the category score.
Criteria	Has an ESD professional been engaged to provide sustainability advice from schematic design to construction? AND Has the ESD professional been involved in a pre-application meeting with Council?
Question	Criteria Achieved ?
Project	Yes
2.2 Thermal Performance Modelling - Multi-Dwelling Residential	100%
Score Contribution	This credit contributes 24.5% towards the category score.
Criteria	Have preliminary NatHERS ratings been undertaken for all thermally unique dwellings?
Question	Criteria Achieved ?
Apartment	Yes
2.3 Thermal Performance Modelling - Non-Residential	100%
Score Contribution	This credit contributes 0.4% towards the category score.
Criteria	Has preliminary modelling been undertaken in accordance with either NCC2019 Section J (Energy Efficiency), NABERS or Green Star?
Question	Criteria Achieved ?
Office Building	Yes
Shop	Yes
2.4 Thermal Performance Modelling - Non-Residential	100%
Score Contribution	This credit contributes 0.2% towards the category score.
Criteria	Has a preliminary Section J facade assessment been undertaken?
Question	Criteria Achieved ?
Office Building	Yes
Shop	Yes
3.1 Metering	100%
Score Contribution	This credit contributes 12.3% towards the category score.
Criteria	Have utility meters been provided for all individual dwellings?
Question	Criteria Achieved ?
Apartment	Yes
3.2 Metering	100%
Score Contribution	This credit contributes 0.2% towards the category score.
Criteria	Have utility meters been provided for all individual commercial tenants?
Question	Criteria Achieved ?
Office Building	Yes
Shop	Yes

3.3 Metering

100%

Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Have all major common area services been separately submetered?
Question	Criteria Achieved ?
Apartment	Yes
Office Building	Yes
Shop	Yes

4.1 Building Users Guide

100%

Score Contribution	This credit contributes 12.5% towards the category score.
Criteria	Will a building users guide be produced and issued to occupants?
Question	Criteria Achieved ?
Project	Yes

Water Overall contribution 6% Minimum required 50%

Water Approach	
What approach do you want to use Water?:	Use the built in calculation tools
Project Water Profile Question	
Do you have a reticulated third pipe or an on-site water recycling system?:	No
Are you installing a swimming pool?:	No
Are you installing a rainwater tank?:	Yes
Water fixtures, fittings and connections	
Showerhead:	
Dwelling 1	4 Star WELS (>= 4.5 but <= 6.0)
Shop 1	Scope out
Office Building 1	
Bath: All	Scope out
Kitchen Taps: All	>= 5 Star WELS rating
Bathroom Taps: All	>= 5 Star WELS rating
Dishwashers: All	Scope out
WC: All	>= 5 Star WELS rating
Urinals: All	Scope out
Washing Machine Water Efficiency:	
Dwelling 1	>= 5 Star WELS rating
Shop 1	Scope out
Office Building 1	
Which non-potable water source is the dwelling/space connected to?: All	Tank 1
Non-potable water source connected to Toilets: All	Yes
Non-potable water source connected to Laundry (washing machine): All	No
Non-potable water source connected to Hot Water System: All	No
Rainwater Tank	
What is the total roof area connected to the rainwater tank?: Tank 1	1,260 m ²
Tank Size: Tank 1	45,000 Litres
Irrigation area connected to tank: Tank 1	-
Is connected irrigation area a water efficient garden?: Tank 1	Yes
Other external water demand connected to tank?: Tank 1	-

1.1 Potable water use reduction

60%

Score Contribution	This credit contributes 71.4% towards the category score.
Criteria	What is the reduction in total potable water use due to efficient fixtures, appliances, rainwater use and recycled water use? To achieve points in this credit there must be >25% potable water reduction.
Output	Reference
Project	10150 kL
Output	Proposed (excluding rainwater and recycled water use)
Project	6513 kL
Output	Proposed (including rainwater and recycled water use)
Project	5901 kL
Output	% Reduction in Potable Water Consumption
Project	41 %
Output	% of connected demand met by rainwater
Project	64 %
Output	How often does the tank overflow?
Project	Never / Rarely
Output	Opportunity for additional rainwater connection
Project	2581 kL

3.1 Water Efficient Landscaping

100%

Score Contribution	This credit contributes 14.3% towards the category score.
Criteria	Will water efficient landscaping be installed?
Question	Criteria Achieved ?
Project	Yes

4.1 Building Systems Water Use Reduction

100%


Score Contribution	This credit contributes 14.3% towards the category score.
Criteria	Where applicable, have measures been taken to reduce potable water consumption by >80% in the buildings air-conditioning chillers and when testing fire safety systems?
Question	Criteria Achieved ?
Project	Yes

Energy Overall contribution 19% Minimum required 50%

Use the BESS Deem to Satisfy (DtS) method for Energy?:	Yes
Do all exposed floors and ceilings (forming part of the envelope) demonstrate a minimum 10% improvement in required NCC2019 insulation levels (total R-value upwards and downwards)?:	Yes
Does all wall and glazing demonstrate meeting the required NCC2019 facade calculator (or better than the total allowance)?:	Yes
Are heating and cooling systems within one Star of the most efficient equivalent capacity unit available, or Coefficient of Performance (CoP) & Energy Efficiency Ratios (EER) not less than 85% of the CoP & EER of the most efficient equivalent capacity unit available?:	Yes
Are water heating systems within one star of the best available, or 85% or better than the most efficient equivalent capacity unit?:	Yes
Dwellings Energy Approach	
What approach do you want to use for Energy?:	Use the built in calculation tools
Project Energy Profile Question	
Are you installing a solar photovoltaic (PV) system?:	Yes
Are you installing any other renewable energy system(s)?:	Yes
Gas supplied into building:	No gas connection
Dwelling Energy Profile	
Below the floor is:	Ground or Carpark
Above the ceiling is:	Outside
Exposed sides:	2
NatHERS Annual Energy Loads - Heat:	61.6 MJ/sqm
NatHERS Annual Energy Loads - Cool:	42.5 MJ/sqm
NatHERS star rating:	7.5
Type of Heating System:	E Reverse cycle ducted
Heating System Efficiency:	4 Star
Type of Cooling System:	Refrigerative ducted
Cooling System Efficiency:	4 Stars
Type of Hot Water System:	A Electric Storage
% Contribution from solar hot water system:	-
Is the hot water system shared by multiple dwellings?:	Yes
Clothes Line:	A No drying facilities
Clothes Dryer:	A No clothes dryer
Non-Residential Spaces Energy Profiles	
Heating, Cooling & Comfort Ventilation - Electricity Reference fabric & services: All	-
Heating, Cooling & Comfort Ventilation - Electricity Proposed fabric & reference services: All	-

Heating, Cooling & Comfort Ventilation - Electricity	-
Proposed fabric & services: All	
Heating - Wood	-
Reference fabric & services: All	
Heating - Wood	-
Proposed fabric & reference services: All	
Heating - Wood	-
Proposed fabric & services: All	
Hot Water - Electricity	-
Reference: All	
Hot Water - Electricity	-
Proposed: All	
Lighting - Reference: All	-
Lighting - Proposed: All	-
Peak Thermal Cooling Load	-
Reference fabric and services: All	
Peak Thermal Cooling Load	-
Proposed fabric and services: All	
Solar Photovoltaic system	
System Size (lesser of inverter and panel capacity): PV	50.0 kW peak
Orientation (which way is the system facing)?: PV	North
Inclination (angle from horizontal): PV	15.0 Angle (degrees)
Which Building Class does this apply to?: PV	Apartment
1.1 Thermal Performance Rating - Non-Residential	38%
Score Contribution	This credit contributes 0.7% towards the category score.
Criteria	What is the % reduction in heating and cooling energy consumption against the reference case (NCC 2019 Section J)?
1.2 Thermal Performance Rating - Residential	67%
Score Contribution	This credit contributes 31.0% towards the category score.
Criteria	What is the average NatHERS rating?
Output	Average NATHERS Rating (Weighted)
Apartment	7.5 Stars
2.1 Greenhouse Gas Emissions	100%
Score Contribution	This credit contributes 10.5% towards the category score.
Criteria	What is the % reduction in annual greenhouse gas emissions against the benchmark?
Output	Reference Building with Reference Services (BCA only)
Apartment	598,326 kg CO ₂
Output	Proposed Building with Proposed Services (Actual Building)
Apartment	454,551 kg CO ₂
Output	% Reduction in GHG Emissions
Apartment	24 %

2.2 Peak Demand		2%
Score Contribution	This credit contributes 5.3% towards the category score.	
Criteria	What is the % reduction in the instantaneous (peak-hour) demand against the benchmark?	
Output	Peak Thermal Cooling Load - Baseline	
Apartment	1,171 kW	
Output	Peak Thermal Cooling Load - Proposed	
Apartment	1,108 kW	
Output	Peak Thermal Cooling Load - % Reduction	
Apartment	5 %	
2.3 Electricity Consumption		100%
Score Contribution	This credit contributes 10.5% towards the category score.	
Criteria	What is the % reduction in annual electricity consumption against the benchmark?	
Output	Reference	
Apartment	586,594 kWh	
Output	Proposed	
Apartment	445,638 kWh	
Output	Improvement	
Apartment	24 %	
2.4 Gas Consumption		N/A ✦ Scoped Out
This credit was scoped out	No gas connection in use	
3.1 Carpark Ventilation		100%
Score Contribution	This credit contributes 10.5% towards the category score.	
Criteria	If you have an enclosed carpark, is it: (a) fully naturally ventilated (no mechanical ventilation system) or (b) 40 car spaces or less with Carbon Monoxide monitoring to control the operation and speed of the ventilation fans?	
Question	Criteria Achieved ?	
Project	Yes	
3.2 Hot Water		2%
Score Contribution	This credit contributes 5.3% towards the category score.	
Criteria	What is the % reduction in annual hot water system energy use (gas and electricity) against the benchmark?	
Output	Reference	
Apartment	234,905 kWh	
Output	Proposed	
Apartment	278,986 kWh	
Output	Improvement	
Apartment	-19 %	

3.4 Clothes Drying	0%
Score Contribution	This credit contributes 5.2% towards the category score.
Criteria	Does the combination of clothes lines and efficient dryers reduce energy (gas+electricity) consumption by more than 10%?
Output	Reference
Apartment	41,160 kWh
Output	Proposed
Apartment	41,160 kWh
Output	Improvement
Apartment	0 %
3.6 Internal Lighting - Residential Multiple Dwellings	100%
Score Contribution	This credit contributes 10.3% towards the category score.
Criteria	Is the maximum illumination power density (W/m2) in at least 90% of the relevant building class at least 20% lower than required by Table J6.2a of the NCC 2019 Vol 1 (Class 2-9) and Clause 3.12.5.5 NCC 2019 Vol 2 (Class 1 & 10)?
Question	Criteria Achieved ?
Apartment	Yes
3.7 Internal Lighting - Non-Residential	100%
Score Contribution	This credit contributes 0.2% towards the category score.
Criteria	Does the maximum illumination power density (W/m2) in at least 90% of the area of the relevant building class meet the requirements in Table J6.2a of the NCC 2019 Vol 1?
Question	Criteria Achieved ?
Office Building	Yes
Shop	Yes
4.1 Combined Heat and Power (cogeneration / trigeneration)	N/A  Scoped Out
This credit was scoped out	No cogeneration or trigeneration system in use.
4.2 Renewable Energy Systems - Solar	98%
Score Contribution	This credit contributes 5.3% towards the category score.
Criteria	Does the solar power system provide 5% of the estimated energy consumption of the building class it supplies?
Output	Solar Power - Energy Generation per year
Apartment	62,221 kWh
Output	% of Building's Energy
Apartment	13 %
4.4 Renewable Energy Systems - Other	0%
Score Contribution	This credit contributes 5.3% towards the category score.
Criteria	Does another form of renewable energy (not solar) provide 5% of the estimated energy consumption of the building class it supplies?
Question	Other Renewable Energy - Energy Generation per year
Apartment	-

Stormwater Overall contribution 14% Minimum required 100%

Which stormwater modelling are you using?:		Melbourne Water STORM tool
1.1 Stormwater Treatment		100%
Score Contribution	This credit contributes 100.0% towards the category score.	
Criteria	Has best practice stormwater management been demonstrated?	
Question	STORM score achieved	
Project	100	
Output	Min STORM Score	
Project	100	

IEQ Overall contribution 12% Minimum required 50%

IEQ DTS	
Use the BESS Deemed to Satisfy (DtS) method for IEQ?:	No
Dwellings IEQ Approach	
What approach do you want to use for IEQ?:	Use the built in calculation tools
Dwelling Daylight Room Profile Questions	
Room Designation:	
AP - Living	Living
Living 2	
AP - Bedroom	Bedroom
Quantity:	
AP - Living	74
AP - Bedroom	156
Living 2	16
Auto-Pass:	
AP - Living	Yes
AP - Bedroom	
Living 2	No
Room Floor Area:	
AP - Living	-
AP - Bedroom	
Living 2	85.0 m ²
Vertical Angle:	
AP - Living	-
AP - Bedroom	
Living 2	31.0 Angle (degrees)
Horizontal Angle:	
AP - Living	-
AP - Bedroom	
Living 2	96.0 Angle (degrees)
Window Area:	
AP - Living	-
AP - Bedroom	
Living 2	9.2 m ²
Window Orientation:	
AP - Living	-
AP - Bedroom	
Living 2	South
Glass Type:	
AP - Living	-
AP - Bedroom	
Living 2	Green Double (VLT 0.58)
Daylight Criteria Achieved?: All	-

1.1 Daylight Access - Living Areas	67%
Score Contribution	This credit contributes 27.2% towards the category score.
Criteria	What % of living areas achieve a daylight factor greater than 1%
Output	Calculated percentage
Apartment	82 %
1.2 Daylight Access - Bedrooms	100%
Score Contribution	This credit contributes 27.2% towards the category score.
Criteria	What % of bedrooms achieve a daylight factor greater than 0.5%
Output	Calculated percentage
Apartment	100 %
1.3 Winter Sunlight	0%
Score Contribution	This credit contributes 9.1% towards the category score.
Criteria	Do 70% of dwellings receive at least 3 hours of direct sunlight in all Living areas between 9am and 3pm in mid-winter?
Question	Criteria Achieved ?
Apartment	No
1.4 Daylight Access - Non-Residential	0%
Score Contribution	This credit contributes 0.4% towards the category score.
Criteria	What % of the nominated floor area has at least 2% daylight factor?
Question	Percentage Achieved?
Office Building	0 %
Shop	0 %
1.5 Daylight Access - Minimal Internal Bedrooms	100%
Score Contribution	This credit contributes 9.1% towards the category score.
Criteria	Do at least 90% of dwellings have an external window in all bedrooms?
Question	Criteria Achieved ?
Apartment	Yes
2.1 Effective Natural Ventilation	67%
Score Contribution	This credit contributes 27.2% towards the category score.
Criteria	What % of dwellings are effectively naturally ventilated?
Question	Percentage Achieved?
Apartment	80 %

Transport Overall contribution 9%

1.1 Bicycle Parking - Residential		100%
Score Contribution	This credit contributes 21.9% towards the category score.	
Criteria	Is there at least one secure bicycle space per dwelling?	
Question	Bicycle Spaces Provided ?	
Apartment	90	
Output	Min Bicycle Spaces Required	
Apartment	84	
1.2 Bicycle Parking - Residential Visitor		100%
Score Contribution	This credit contributes 21.9% towards the category score.	
Criteria	Is there at least one visitor bicycle space per 5 dwellings?	
Question	Visitor Bicycle Spaces Provided ?	
Apartment	18	
Output	Min Visitor Bicycle Spaces Required	
Apartment	17	
1.3 Bicycle Parking - Convenience Residential		100%
Score Contribution	This credit contributes 11.0% towards the category score.	
Criteria	Are bike parking facilities for residents located at ground level?	
Question	Criteria Achieved ?	
Apartment	Yes	
1.4 Bicycle Parking - Non-Residential		100%
Score Contribution	This credit contributes 0.4% towards the category score.	
Criteria	Have the planning scheme requirements for employee bicycle parking been exceeded by at least 50% (or a minimum of 2 where there is no planning scheme requirement)?	
Question	Criteria Achieved ?	
Office Building	Yes	
Shop	Yes	
Question	Bicycle Spaces Provided ?	
Office Building	5	
Shop	5	
1.5 Bicycle Parking - Non-Residential Visitor		100%
Score Contribution	This credit contributes 0.2% towards the category score.	
Criteria	Have the planning scheme requirements for visitor bicycle parking been exceeded by at least 50% (or a minimum of 1 where there is no planning scheme requirement)?	
Question	Criteria Achieved ?	
Office Building	Yes	
Shop	Yes	
Question	Bicycle Spaces Provided ?	
Office Building	6	
Shop	5	

1.6 End of Trip Facilities - Non-Residential

0%

Score Contribution	This credit contributes 0.2% towards the category score.
Criteria	Where adequate bicycle parking has been provided. Is there also: * 1 shower for the first 5 employee bicycle spaces plus 1 to each 10 employee bicycles spaces thereafter, * changing facilities adjacent to showers, and * one secure locker per employee bicycle space in the vicinity of the changing / shower facilities?
Question	Number of showers provided ?
Office Building	-
Shop	-
Question	Number of lockers provided ?
Office Building	-
Shop	-
Output	Min Showers Required
Office Building	1
Shop	1
Output	Min Lockers Required
Office Building	5
Shop	5

2.1 Electric Vehicle Infrastructure

100%

Score Contribution	This credit contributes 22.3% towards the category score.
Criteria	Are facilities provided for the charging of electric vehicles?
Question	Criteria Achieved ?
Project	Yes

2.2 Car Share Scheme

100%

Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Has a formal car sharing scheme been integrated into the development?
Question	Criteria Achieved ?
Project	Yes

2.3 Motorbikes / Mopeds

100%

Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Are a minimum of 5% of vehicle parking spaces designed and labelled for motorbikes (must be at least 5 motorbike spaces)?
Question	Criteria Achieved ?
Project	Yes

Waste Overall contribution 4%

1.1 - Construction Waste - Building Re-Use	0%
Score Contribution	This credit contributes 33.3% towards the category score.
Criteria	If the development is on a site that has been previously developed, has at least 30% of the existing building been re-used?
Question	Criteria Achieved ?
Project	No
2.1 - Operational Waste - Food & Garden Waste	100%
Score Contribution	This credit contributes 33.3% towards the category score.
Criteria	Are facilities provided for on-site management of food and garden waste?
Question	Criteria Achieved ?
Project	Yes
2.2 - Operational Waste - Convenience of Recycling	100%
Score Contribution	This credit contributes 33.3% towards the category score.
Criteria	Are the recycling facilities at least as convenient for occupants as facilities for general waste?
Question	Criteria Achieved ?
Project	Yes

Urban Ecology Overall contribution 4%

1.1 Communal Spaces	100%
Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Is there at least the following amount of common space measured in square meters : * 1m ² for each of the first 50 occupants * Additional 0.5m ² for each occupant between 51 and 250 * Additional 0.25m ² for each occupant above 251?
Question	Common space provided
Apartment	118 m ²
Office Building	3.0 m ²
Shop	8.0 m ²
Output	Minimum Common Space Required
Apartment	112 m ²
Office Building	2 m ²
Shop	7 m ²
2.1 Vegetation	100%
Score Contribution	This credit contributes 44.5% towards the category score.
Criteria	How much of the site is covered with vegetation, expressed as a percentage of the total site area?
Question	Percentage Achieved ?
Project	30 %
2.2 Green Roofs	100%
Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Does the development incorporate a green roof?
Question	Criteria Achieved ?
Project	Yes
2.3 Green Walls and Facades	0%
Score Contribution	This credit contributes 11.1% towards the category score.
Criteria	Does the development incorporate a green wall or facade?
Question	Criteria Achieved ?
Project	No
2.4 Private Open Space - Balcony / Courtyard Ecology	0%
Score Contribution	This credit contributes 11.0% towards the category score.
Criteria	Is there a tap and floor waste on every balcony / in every courtyard?
Question	Criteria Achieved ?
Apartment	No

3.1 Food Production - Residential		100%
Score Contribution	This credit contributes 11.0% towards the category score.	
Criteria	Is there at least 0.25m ² of space per resident dedicated to food production?	
Question	Food Production Area	
Apartment	47.0 m ²	
Output	Min Food Production Area	
Apartment	44 m ²	
3.2 Food Production - Non-Residential		0%
Score Contribution	This credit contributes 0.2% towards the category score.	
Criteria	Is there at least 0.25m ² of space per occupant dedicated to food production?	
Question	Food Production Area	
Office Building	-	
Shop	-	
Output	Min Food Production Area	
Office Building	1 m ²	
Shop	2 m ²	

Innovation Overall contribution 4%

Innovations		
Description:		
Fountains	Water Fountains	
Low / Ultra Low VOC	Low / Ultra Low VOC paints, adhesives, Sealants and Carpets to meet Green Star Interiors v1.3	
Responsible Building Materials	Concrete , Steel and Timber to be follow Green Star Buildings v1.3	
Points Targeted:		
Fountains	1	
Low / Ultra Low VOC	2	
Responsible Building Materials	2	
1.1 Innovation		50%
Score Contribution	This credit contributes 100.0% towards the category score.	
Criteria	What percentage of the Innovation points have been claimed (10 points maximum)?	

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