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Introduction

This document sets out EDC's approach to assessing the sustainable performance of planning applications within the urban development area of Ebbsfleet.

The document is intended to be used by applicants, Ebbsfleet Development Corporation's planning team and the Ebbsfleet Design Forum to frame discussions around sustainability from the outset of a project. The assessment tables will also be used to report on sustainable performance to the planning committee at application stage.

Our focus has been on clarity, consistency and practicality, using the performance levels that have been developed by industry to measure and report on design performance of projects in Ebbsfleet. We have also monitored progress of the newly launched 'Net Zero Carbon Building Standard', and aligned where possible. The guide aligns local planning policy with EDC's environmental ambitions and industry defined best practice to provide a consistent methodology for assessing and reporting across Carbon & Energy, Water, Waste & Materials, Natural **Environment, Health & Wellbeing** and Inclusive Growth & Community Development.

The document provides two key tools for applicants;

- Assessment tables provide a framework for defining sustainable performance within a planning application. They have been developed to interpret local planning policy into clear performance levels that are consistent with national industry best practice, and to ensure delivery of quantifiable ambitions set out in Ebbsfleet's Sustainable Framework.
- Simple and clear design guidance is provided for key project types. This guidance is intended to provide a basic framework for demonstrating project sustainability performance within the application documentation. The guidance will also be used during pre-application meetings to ensure key design approaches and technologies have been tested and incorporated where appropriate into projects at the earliest opportunity.

The guidance and assessment tables will be reviewed on a regular basis to ensure they remain relevant, practical, and impactful in enabling EDC to deliver on the ambitions of the Ebbsfleet Environmental Sustainability Framework.

Ebbsfleet's Environmental Sustainability Framework

In 2021 Ebbsfleet Development Corporation published the Ebbsfleet Environmental Sustainability Framework and Action Plan to bring together its activities around environmental sustainability into a single programme. This programme compliments EDC's placemaking work around economic development, inclusive growth, community development and social value, to cover all three pillars of sustainable development.

The core of this framework has been developed from the relevant UN Sustainable Development Goals and assimilated into five priority environmental themes, as well as a sixth 'Inclusive growth and community development' them to reference the socio-economic aspects of sustainability.

The resulting action plan focuses and encourages improved sustainability of the emerging Garden City in Ebbsfleet, the facilitation of sustainable behaviours, and improving EDC's organisational performance.



- **Energy use:** Ebbsfleet will aim to be net zero carbon upon completion.
- Energy generation & distribution: EDC projects aim to be exemplar in energy generation and usage.



- Water use: Minimise net water supply from outside the Ebbsfleet Garden City area.
- Water quality: Provide access to a broad range of affordable leisure and sports activities within Ebbsfleet's water courses.
- Flood resilience: EDC projects to prioritise green and blue sustainable drainage to achieve resilience to 1% annual exceedance probability.



- Waste reduction : Minimise construction and operational waste and maximise domestic recycling.
- Waste reduction: Promote circular economy through EDC procurement, partnerships, and investment.
- Healthy materials: Promote sustainable building materials within EDC projects (where appropriate).





- Environment: Create a healthy environment where people are empowered to enjoy a high quality of life and improved life expectancy, supported through sustainable buildings and civic infrastructure.
- **Sustainable travel:** Net zero travel-based carbon emissions per person per day.
- **Healthy buildings:** Deliver comfortable and accessible buildings.

Natural Environment

- Greening the city: To create a healthy, biodiverse and attractive landscape, including 400ha of newly accessible green and blue spaces that supports active lifestyles by 2035.
- **Biodiversity:** To achieve net positive species impact by 2035.

inclusive growth + community development

- Enterprise and social inclusion: EDC has identified core social value TOMs (Themes, Outcomes and Measures) that focus on jobs, economic growth, community and environmental commitments and are based on activity identified as being able to meet local needs.
- Deliver an inclusive, diverse and creative economy.

Purpose, audience and application

Purpose of assessment tables

The assessment tables and guidance have been developed for;

EDC to provide a common understanding of sustainability and net zero aligned performance measures applicable across the Garden City.

Applicants to provide a clear set of sustainability and net zero aligned performance measures they are to achieve and with guidance on how to achieve them.

The assessment tables have been developed to enable EDC and applicants alike to deliver against;

1) sustainability policies included in the development plans applicable to Ebbsfleet

2) the vision set out in the Ebbsfleet Sustainability Framework

3) the objectives defined in EDC's Decarbonisation Plan

The performance measures and levels set out in the assessment tables aim to support all EDC projects being net zero carbon on completion of the Garden City, ensuring that carbon emissions are mitigated at every stage of the project's life cycle. The expectation from EDC is that applicants will aim to meet the measures set out in the dark green box for each performance measure to achieve carbon net-zero performance and deliver the vision and planning policies for Ebbsfleet.

However we also recognise that technologies and practice is changing rapidly, and the performance level that can be achieved may also be dependent on the specifics of a site's context and brief. Where applicants are unable to meet the dark green performance level, they should evidence in the supporting documentation the reasons why dark green can not be achieved.

In line with the NPPF's presumption in favour of sustainable development, planning applications that place priority on Net Zero measures across all six priority will be considered exemplary.

Applicants are required to complete the relevant Sustainability Summary Assessment Table (dependent on project type), and submit supporting documentation to evidence this performance level as detailed in EDC's validation checklist. In instances where an applicant is delivering projects that cover more than one typology, assessments matrices must be submitted for each typology.

Ebbsfleet's Environmental Sustainability Framework sets two key ambitions for carbon and energy; to be net zero carbon upon completion, and to be an exemplar for energy generation, distribution, and efficiency.

How to use the assessment tables

Step 1 > Select a project type

Firstly, applicants should decide which of the four project types apply to their project, these being 1) residential, 2) commercial, 3) public buildings, and 4) public realm and infrastructure. In instances where an applicant is delivering projects that cover more than one typology, an assessments table should be submitted for each building type.



Residential Buildings

The Ebbsfleet Garden City is a large residential-led masterplan area comprising or a mix of housing typologies including:

- Terraced dwellings, typically ≤ 3 storeys
- Semi-detached dwellings, typically ≤ 3 storeys
- Detached dwellings, typically ≤ 3 storeys
- Medium scale apartment blocks, ≤4 storeys
- Large scale apartment block, > 4 storeys



Schools & Community Buildings

School and Community buildings within the Ebbsfleet Garden City development area includes:

- Nurseries
- Primary Schools
- Secondary Schools
- Multi-faith facilities + Community halls/facilities
- Healthcare facilities



Commercial Buildings

Commercial Buildings within the Ebbsfleet Garden City development area includes:

- Office buildings / floor space
- Retail buildings / floor space
- Industrial facilities



Public realm + Infrastructure

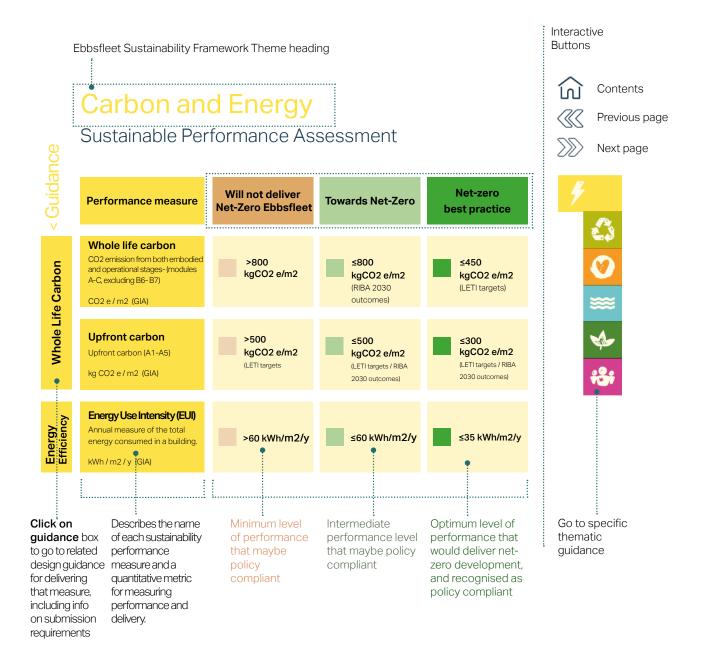
Public realm and infrastructure development covers a range of elements including:

- Open Space / External Play Space
- Hard & Soft Landscaping
- Community Gardens/Allotments/Orchards
- Roads + Cycle Paths + Green/Blue/Drainage Infrastructure in the public realm

Step 2 > Consult assessment tables

Applicants should consult the relevant assessment tables for the specific project type. The assessment tables are split into the six sustainability themes as set out in Ebbsfleet's Sustainability Framework; Carbon and Energy, Water, Waste and Materials, Health and Wellbeing, Natural Environment and Inclusive Growth and Community Growth. Applicants should work through each performance measure, and use the guidance where necessary to better understand how they can achieve the performance level

You can click on the guidance tab to the left of each performance measure, to short-cut to the relevant guidance.



Step 3 > Use the design guidance

Each performance measure has supporting design and submission guidance that sets out key design principles and submission requirements for evidencing the performance of your planning application.

You can click on the guidance box to the left of each performance measure to hyperlink to the relevant guidance for that measure. The guidance sets out

1) Relevant polices in the local plans that require performance for that sustainability theme

2) General best practice design principles

- 3) Submission requirements
- 4) Links to more detailed guidance

Definition of sustainability subject area ŝ Whole-life Carbon Assessment 38 within the building, and providing smart energy management systems to allow users to monitor and manage energy use into the future. > See Passive Design for detailed guidance Aim: Reduce carbon emissions at every stage of the project's life cycle SD Generaté renewable energy Generating energy on site helps to reduce demand on the national grid, decarbonise the national grid, and off-set the energy demanded by the site. Whole life carbon is a measure of the total amount of carbon emitted The 'Energy Use Intensity' is a measure of how much energy per m2 is required by the building per annum. throughout the life cycle of a building or infrastructural asset, and include both upfront emissions generated through construction, and operational emissions generated during the building's use. The 'operational renewables' metric » See Energy Efficiency for detailed guidance rovides an understanding of whether a life is reliant on the decarbonisation of the The UK Green Building Council's 'Net zero carbon framework' provides 2 national grid to achieve operational net-zero by 2050, or can claim to be net-zero upon a useful approach to guide projects in reducing carbon across all stages to mitigate climate change. Use passive design to reduce the energy needed for heating / cooling 0 Passive design aims to use the conditions and climate of a site, and the design of the building's external walls, root and floors to minimise energy needed to keep occupan comfortable throughout the year. > See Renewables for detailed guid Building Provide metering, monitoring and reporting to help users reduce their energy use 1 Creational endoded The operational heating demand metric Incorporating smart energy/building management systems can allow users to better manage and reduce their energy usage. The reporting of the buildings / projects in-use energy on an annual bas will improve our ability to further reduce carbon across the industry. provides a measure of how design has been applied. well passive »See Energy Management for detailed guidance Use a whole-life carbon assessme method to inform the design proce and reduce carbon at every stage. and the reduction of waste immended detailed guidance Submission requirements : The 'upfront carbon' metric provides a summary of how much carbon is emitted during construction. LETI Client Guide Embedding a whole-life cycle assessment Embedding a Whole-life cycle assessment infort ne design process will ensure every design decision considers its impacts on the embodied and operational carbon emitted, it should also encourage design for flexibility adaptability and deconstruction to minimise end-ol-life impacts and enable a 'circular economy' within the built environment: EDC Sustainability Assessment L >See Unfront carbon for detailed muldance vhole-life carbon performance should GLA London Plan Guidance: Whole Life Cycle Carbon Reduce operational energy needed. and EDC Whole Life Garbon Assessment and 3. The two formplates are be RICS Whole Life Carbon Assessment Reducing the energy demanded by a building when in use will make it much bolinal gives the operationally net-zero carbon, regardless of whether the energy is generated by on site renewable sources or the national grid. LETI Climate Emergency **Design Guide** Use a circular economy approach to reduce upfront carbon Upfront carbon can be significantly reduced through the re-use and retrofit of existing buildings / infrastructure. The pursuit of a citcular economy approach in the design and specification of products and materials. This can be achieved by using a combined of passive design to reduce the energy needed for servicing the building, using efficient electrical devices and systems **RIBA Sustainable Outcomes** 2030 Guide 57 Ebosfieet Sustainability Assessment Gui 55 İ..... Key design principles Submission requirement Links to other more detailed

guidance

Step 4 > Complete Sustainability Assessment Summary Table

Applicants are required to submit a Sustainability Summary Assessment Table as part of their planning application, which will be presented to the Planning Committee as part of the Planning Officer's Report (where applications are determined by committee) Complete the relevant summary assessment table based on the type of project, by ticking which of the three boxes the scheme achieves for that performance measure. Only one box should be ticked for each performance measure.

planning application	Project Name:		Date:			
project info	Sustainability Themes / Performance Measure	Please select Sustainability Level achieved in each measure				
	Carbon & Energy	Carbon & Energy				
	Whole life Carbon					
	Upfront Carbon					
	Energy efficiency : Energy Use Intensity (EUI)					
	Passive Design : Space heating					
	Renewables					
	Energy Management		N/A			
	Waste & Materials					
	Circular sourcing					
	Responsible sourcing					
	End of life reusability		N/A			
	Construction waste					
	Offsite Manufactured, MMC, Pre-manufactured					
	Health & Wellbeing					
Sustainability level	Cycle parking & facilities		N/A			
check boxes, from	Car club		N/A			
lower performance that won't achieve	Transport connections	••••	N/A	-		
net zero (left) to net	Healthy materials					
zero best practice	External daylight and sunlight					
(right).	Internal daylighting					
Check the box that reflects the	Overheating					
selected level for	Water					
each measure.	Sustainable Urban Drainage Systems (SuDs)					
	Surface water run off					
	Potable Water use					
	Water Collection			Π		
	Natural Environment					
	Biodiversity Net Gain					
	Urban Greening Factor		N/A			
	Tree Canopy cover					
	Green Roof coverage					
	Food growing					
	Drought resistance					

<u>.</u>....



Step 5 > Provide supporting evidence

Planning applications should include the following documentation, to provide the supporting evidence of performance of the project as set out in the Sustainability Assessment Summary Table. Further information on submission requirements can be found in the guidance pages for each performance measure.



The expectation from EDC is that applicants will aim to meet the measures set out in the dark green box for each performance measure to achieve carbon net-zero performance and deliver the vision and planning policies for Ebbsfleet.

However we also recognise that technologies and practice is changing rapidly, and the performance level that can be achieved may also be dependent on the specifics of a site's context and brief. Where applicants are unable to meet the dark green performance level, they should evidence in the supporting documentation listed to the left the reasons why dark green can not be achieved, with any supporting calculations to support this.

New Requirement



EBBSFIEE SUSTAINABILITY ASSESSMENT

// Residentia





Residential One Page Design Guidance

Carbon & Energy

The primary focus is on the the delivery of Net Zero Carbon residential buildings, which:

- Embodied carbon: Use materials that are highly sustainable, renewable or made of high recycled content such as timber, GGBS concrete and recycled steel. Schemes should make reference to how materials are manufactured, procured, transported and constructed onsite to reduce Upfront Carbon figures. Questions should be asked about what are the big ticket carbon saving materials being used, their specifications & strategies for repair, maintenance & replacement of the homes to reduce in-use embodied carbon
- Passive design: Windows locations and sizes- are based on facade orientation, natural light optimisation and inclusion of shading devices, where appropriate
- **Passive design:** Incorporate natural ventilation- are dual aspect as a priority, and utilise MVHR where appropriate
- <u>Energy efficiency</u>: Low carbon heating sources- do not use fossil fuels. Schemes should adopt direct electric active systems or Ground/Water/Air Source Heat Pumps
- Renewables: Utilise renewable energy sources such as solar panels PV cells to ensure a low operational carbon homes. Applicants should demonstrate orientation of homes' main elevation within +/-30deg of south, maximise solar PV gains and winter heat gains
- **Metering and monitoring:** Align with Soft Landing principles to reduce performance gaps in completed homes.



₩ Water

The primary focus is to construct dwellings to be climate resilient, and minimise potable water use to reduce pressure on water demand. Residential schemes should demonstrate:

- **SUDs:** Evidence of blue / green infrastructure and Sustainable Urban Drainage Systems that capture stormwater and mitigate flooding
- SUDs: Evidence of permeable hard landscape surfaces
- **SUDs:** Provision of rainwater collection such as water butts to dwellings and Grey water recycling measures
- Water use: Reduced appliance and fitting flow rates to minimise water use and use of Waste Water Heat Recovery appliances
- Water Use: Refer to the <u>AECB Design Guidance Standard</u> for guidance

🖏 Waste & Materia

The primary focus is to cor economy principles, promo materials and opportunities for waste streams.

Residential schemes should e

- Waste: Appropriately sized storage provision for recy streams.
- <u>Circular economy:</u> Spectresponsibly sourced mate treatment.
- <u>Circular economy:</u> Dene efficiency, high PMV, decons with DfMA and Offsite Cons



als

struct dwellings with circular te sustainable and healthy residents to minimise domestic

vidence:

d, easily accessible and secure cling food and domestic waste

ecify reused or recycled and rials in dwellings and landscape

nonstrate design for material struction or adaptability of homes truction / MMC methods.

🕖 Health & Wellbeing

The primary focus is to develop healthy neighbourhoods with active travel and low carbon and pollution infrastructure, that allow residents to be within a 5 minute walk of day to day amenities. Healthy homes should be safe, secure, accessible, light, quiet, comfortable and resilient to climate change. Residential developments should incorporate:

Sustainable Travel:

- EDC Sustainable Travel Strategy requirements and measures
- Mobility hubs within 400m of front doors to provide residents with an interchange for sustainable modes of transportation to take them further afield. A mobility hub should provide connection between at least two types of sustainable transportation such as bus-to-train or bike-to-bus
- Car Clubs to promote reduced car quantities and pollution
- EV charging points to individual dwellings and car hub locations as specified
- A clear public realm design hierarchy of pedestrian, cycle and public transport routes
- Secure Bicycle storage facilities

Housing Quality:

- Align architectural design proposals with the <u>Design for Ebbsfleet</u>
 <u>Character Guide</u>
- NDSS space standards as a minimum with M(4)2 compliance desired alongside EDC outdoor space requirements
- Demonstrate design and specification of healthy materials with low emission of Volatile Organic Compounds via EPD datasheets
- **Overheating:** Optimise dwelling orientation, density, massing and room locations to maximise natural daylight and limit overshadowing. Allow a distance of 1/1.5 times the building height between apartment buildings
- **Overheating:** Demonstrate summer solar gain and overheating mitigation with shading devices and projecting balcony locations

🍫 🛛 Natural Environment

The primary focus is to construct dwellings and their surroundings with green infrastructure that contributes to climate resilience and provides opportunities to enable residents to connect with nature and make sustainable lifestyle choices. Applicants should provide evidence of:

- **Biodiversity:** Creation and provision of habitats in the landscape
- **Biodiversity:** Adoption of minimum 10% Biodiversity Net Gain and target 0.4 or greater Urban Greening Factor opportunities
- Green Infrastructure: Soft landscaping and Tree Canopy Cover strategies in alignment with <u>EDC'S Public Realm Strategy</u>
- **Green Infrastructure:** Diversity of native and drought resistance species of planting
- Green Infrastructure: Connect new public realm to existing
- **Green Infrastructure:** Provision of food growing facilities

Residential Carbon and Energy

Sustainable Performance Assessment



Residential Waste & Materials

Sustainability Performance Assessment

Will not deliver Net Zero / Performance measure **Towards Net-Zero Net-Zero Ebbsfleet Circular economy Circular sourcing** <30% ≥30% ≥50% % building materials by volume that Provide Circular Provide Provide circular are reused, recycled, secondary and renewable in construction comprehensive economy Economy justification statement statement and See glossary for definition. table of results. Responsible <75% of key ≥75% of key 100% of key sourcing materials are materials are materials are responsibly responsibly responsibly % construction materials by volume sourced sourced sourced that are responsibly sourced 50% 'Space' layer **Towards Net Zero** End of life reusability Target + Material Not designed 50% Wholebuilding for reuse and/or passports % building materials/ elements Designed for reusable at end of life by volume/tonnage disassembly introduced site disassembly and wide reuse **Construction waste** *Zero non-*Zero non-Waste to landfill hazardous waste hazardous waste Waste to landfill and incineration and % incinerated volume/tonnage to landfill and to landfill and ≤10% incinerated. 0% incinerated. Offsite Manufactured, **MMC**, Pre-manufactured <10% ≥10% -50% > 50% % Pre manufactured volume/tonnage

*

< Guidance

Circular Economy

Referencing GLA CE Template v1.1 May 2023

Residential Health & Wellbeing

Sustainable Performance Assessment

Guidance	Sustainable Performance Assessment				
< Gu	Performance measure	Will not deliver a healthy Ebbsfleet	Towards a healthy Ebbsfleet	Healthy Ebbsfleet	F
Sustainable Travel	Local amenities % of homes are located within 5min walk of 3 key services and 15min walk from 6 key services.	100% of homes are located within 10 mins walk to 3 key services	100% of homes are located within 10 mins walk to 6 key services	100% of homes are located within 5 mins walk to 6 key services	
	Cycle parking & facilities No. of secure (enclosed), high quality cycle parking spaces & facilities per person.	Houses : 1 cycle space / bedroom Flats : 1 cycle space / unit (Kent County parking standards)	Flats/Houses : 1 cycle space / bedroom	Flats/Houses : 1 cycle space / resident	**
	Car club Distance from car club and ratio of car/number of units.	1 car club bay or less within 5min walk of all homes.	Not Applicable	2 car club bays within 5 minute walking radius of all homes.	4
	Transport connections Distance to public transport stops and Mobility hubs	Not all homes are within 400m of a bus stop	All homes are within 400m of a bus stop	All homes are within 400m of a mobility hub (car share, bike share, bike hubs, bus stops)	
Healthy Homes and Buildings	Housing Quality Meet National Space Standards	Nationally Described Space Standards (NDSS) EDC outdoor space stds +	NDSS + EDC outdoor space stds + Part M4(2)	Meets NDSS EDC outdoor space stds + Part M4(2) + sprinklers for ≥ 4 storeys	
	Healthy materials % surface area of materials that restrict VOC emissions	<90% flooring, <75% insulation, ceiling wall panels	≥90% flooring, ≥75% insulation, ceiling wall panels from WELL	≥95% flooring, ≥85% insulation, ceiling wall panels from WELL	
	External daylight + sunlight Compliance with BRE 209 standard for external daylight a nd sunlight	 2hrs direct sunlight on the ground to 50% or more of open space on 21st March 	 ≥ 2hrs direct sunlight on the ground to 70% of open space on 21 March 	 ≥ 3hrs direct sunlight on the ground to 70% of open spaces on 21 March 	
	Internal daylighting Compliance with minimum daylight standards	BS EN 17037 daylight standard (Min. 300 lx natural light over 50% the space)	>85% of the space at 500lux BS EN 17037 daylight standard (medium level)	>85% of the space at 750lux BS EN 17037 daylight standard (high level)	
	Dual aspect % dual aspect	<75% dual aspect units and no north facing single aspect	≥75% dual aspect units and no north facing single aspect	100% dual aspect units	
Overheating	Overheating All buildings to pass overheating criteria	Part O requirements (Overheating Calculations: Simplified Method)	≥80% pass 2050 weather scenario (Dynamic Thermal Modelling: CIBSE TM59 Calculations)	100% pass 2050 weather scenario (Dynamic Thermal Modelling: CIBSE TM59 Calculations)	

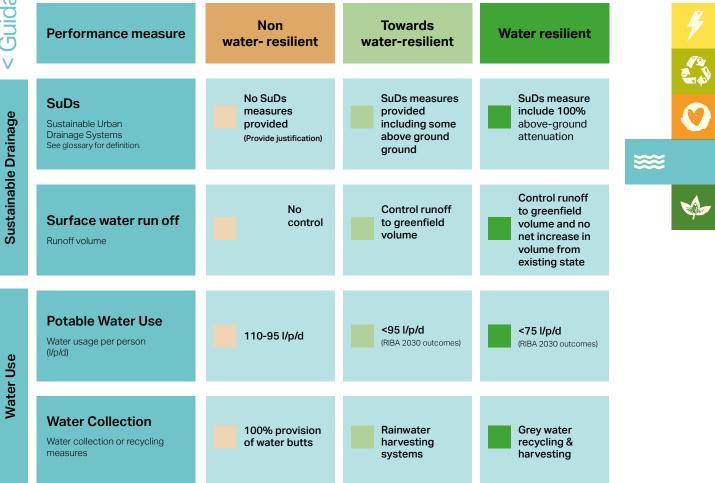
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Ebbsfleet Sustainability Assessment Guide



< Guidance

Sustainable Performance Assessment



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Residential Natural Environment

Sustainability Performance Assessment



Residential Inclusive growth + community development

Performance measure Assessment criteria		Yes	No
Community Engagement	Project has delivered engagement aligned with EDC's guidance on community engagement, and facilitated co-design events early in the design process to up-skill the community on design, and enable them to engage in the co-design of the project.		
Community Engagement	Project has utilised a digital engagement platform throughout the design process to provide a portal for all briefing and community engagement activities, and to provide feedback on community proposals and ideas.		
Accessibility	Project has included an access consultant to enable best practice accessibility within the project.		
Accessibility	For Public Buildings, the project has applied the public building section of the London Legacy Development Corporation's Inclusive Design Standards.		
Arts and Culture	Design team has reviewed the <u>Ebbsfleet Public</u> <u>Art Strategy</u> , and integrated the Ebbsfleet public art principles into the project's design process and engagement programe.		

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Application Assessment Summary

Project Name: Date:				
Sustainability Themes / Performance Measure		Please select Sustainability Level achieved in each measure		
Carbon & Energy				
Whole life Carbon				
Upfront Carbon				
Energy efficiency : Energy Use Intensity (EUI)				
Passive Design : Space heating				
Renewables				
Energy Management		N/A		
Waste & Materials				
Circular sourcing				
Responsible sourcing				
End of life reusability				
Construction waste				
Offsite Manufactured, MMC, Pre-manufactured				
Health & Wellbeing				
Local Amenities				
Cycle parking & facilities				
Car club		N/A		
Transport connections				
Housing Quality				
Healthy materials				
External daylight and sunlight				
Internal daylighting				
Dual aspect				
Overheating				
Water				
Sustainable Urban Drainage Systems (SuDs)				
Surface water run off				
Potable Water use				
Water Collection				
Natural Environment				
Biodiversity Net Gain	N/A			
Urban Greening Factor		N/A		
Tree Canopy cover				
Green Roof coverage				
Food growing				
Drought resistance				