



Wide Lane Southampton SO18 2FA

Environment Social and Governance Policy

Table of Contents

About this policy	2
Who is responsible for this policy.....	2
Our ESG commitment.....	2
Our statement on climate change and the environment	4
Our statement on social responsibility	6
Our statement on ethical governance.....	8
Our business and ESG.....	8
ESG and our reputation	9
ESG and our customers	9
ESG and our suppliers	10
ESG and our board	10
ESG and our employees	11
Monitoring and enforcement.....	12
Appendix: Building Certificates.....	13

1. About this policy

Paul Murray PLC is a UK-based importer and distributor of health, beauty and nursery products that aims to implement the highest environmental, social and governance (ESG) standards. The prosperity of the Company and of the communities within which it operates requires a commitment to the sustainable management of our activities. The directors have decided to develop a robust and transparent ESG strategy that affects and enhances all areas of the Company's business in line with ESG issues.

The Company wishes to adopt this strategy as a framework for how the directors will manage ESG issues relevant to the Company's business. This policy will inform our ESG efforts moving forward. This includes, but is not limited to reporting, disclosures (both material and non-material), business practices, policies, procedures, investments, board activities, stakeholder engagement, and investor relations.

Nothing in this policy shall be taken or understood to legally limit or reduce our current commitments. This policy does not form part of any contract of employment or other contract to provide services, and we may amend it at any time.

2. Who is responsible for this policy?

The board has overall responsibility for the effective operation of this policy. They have delegated responsibility for overseeing its implementation to the Business Services Director. Suggestions for change should be reported to the Business Services Director.

Line managers have day-to-day responsibility for this policy and any questions about this policy should be referred to them in the first instance.

This policy is reviewed annually by the board. Changes may be made at any time as government guidance develops.

3. Our ESG commitment

We strive to build sustainable, equitable, healthy, and diverse communities through a combination of innovative business practises and exemplary environmental, social and governance (ESG) performance. This commitment informs every aspect of our business, including how we design and build new projects, operate our company, collaborate with stakeholders and report progress.

This ESG Policy sets out our approach to sustainability matters. At the heart of the Policy is a corporate culture that has sustainability at the core of all our business operations and values.

4. Our statement on the environment

Our Environmental Policy is our written commitment to both the people within our organisation and to our customers and suppliers. It confirms Paul Murray PLC's commitment to continuous improvement in managing environmental issues, including the proper management and monitoring of waste the reduction of pollution and emissions, training staff, monitoring of environmental performance and total compliance with all environmental legislation:

- Waste (England & Wales) Regulations 2011
- The Hazardous Waste (England & Wales) Regulations 2005
- Environmental Protection (Duty of Care) Regulations 1991
- The Environmental Act 1990
- The Control of Pollution (Amendment) Act 1989

Paul Murray PLC is committed to creating a sustainable society by protecting and, where possible, enhancing the company's social, environmental and economic impacts, preventing pollution, and driving sustainable economic development as part of a transition to a low carbon future. We do this by:

- Improving resource efficiency, including use of water, energy (including transport related energy usage) and raw materials.
- Ensuring that our systems and procedures prevent pollution and minimise resource consumption.
- Understanding our customers and stakeholders' expectations and requirements in relation to the environment
- Ensuring that our employees and suppliers are able and are encouraged to support our sustainability commitments.
- Ensuring that we continually review how we can make improvements to our sustainability performance by monitoring our sustainability performance and progress against objectives and targets.
- Adhering to Paul Murray PLC's Sustainability Policy and related objectives and targets.

Transport

The sales department, who do most of the mileage, are moving to electric vehicles. Seven Territory Managers have been supplied with self-charging hybrid vehicles. By the end of 2023 all 26 of the TM's and BDM's will be supplied with self-charging hybrids.

- From 2025 we plan to move the whole sales fleet to all electric.
- All Company Directors have Electric Vehicles: 3 Full electric and 4 Hybrid
- We had 18 EV Box vehicle charging points installed at the Head Office to be used by members of staff and visitors.
- Incentives for staff to use alternative method of travel to work, such as Cycle to Work scheme and a cycle storage bay and shower facilities available to be used by all members of staff.

Buildings

- Paul Murray PLC Head Office has BREEAM Certification, achieving Excellent rating. BREEAM is a worldwide recognized sustainability assessment method for environmental performance of buildings through design, specification, construction and operation.
- Emissions from product being delivered by reducing the size of the retail packaging and business travel emissions being reduced by replacing face-to-face meetings with virtual meetings, when possible.
- The Company does not ship products by air.
- Category A Energy Efficient Building to comply with adopted policy CS20 of the Local Development Framework Core Strategy Development Plan 2010.
- All Internal/External Lighting being LED
- Roof fitted with Solar Panels to heat water for washing hands and cleaning floors.
- Pre-blended temperature-controlled water taps to minimise water wastage.

Waste management

- Waste produced at Paul Murrays' head office does not go into landfill. All cardboard goes to recycling and general waste gets re-sorted to remove recyclable materials. Materials that are not recyclable gets incinerated for energy recovery.

Pollution

- Acoustic Barrier made from natural material (Coconut) built to rear of warehouse to ensure that nuisances and hazards arising from the site due to noise are minimised. This is a green wall covered with ivy.
- Environmental Interceptor Water Tanks under service yard to capture heavy contaminants before water is released into waterways.
- Subterranean water run-off drainage tunnels under car park have penstock gates installed to isolate any contaminant spills.
- No use currently or previously carried on by the company has resulted in the emission of fumes or particles into the atmosphere.
- The Company does not discharge, nor has it ever discharged non-domestic fluids into the watercourse, the sea or into the ground other than toilet and sink effluent into the local sewer system.

Packaging materials

- We are removing all PVC plastic materials by the end of 2023.
- We are planning to reduce non-recyclable PP by 50% by the end of 2025.
- All packaging used in our warehouse is recyclable
- Customer Orders are shipped using FSC certified cartons.

Ecology

- Over 50 trees have been planted around our head office to ensure that the development makes a positive contribution to the local environment in accordance with the Local Planning Authority by Section 197 of the Town and Country Planning Act 1990.
- Ecological mitigation measures with Bat and Bird Boxes installed on site to enhance habitat for protected species under the Wildlife and Countryside Act 1981.

Engagement with Local Authorities

- Continuous involvement with local council schemes such as the Cycle to Work scheme and Bike Doctor workshops to encourage the use of alternative methods of transport to work.

Philanthropy

- Paul Murray PLC has worked in partnership with the WWF to help fund and organise the first recycling facility in Puerto Villamil on the Galapagos Islands, Ecuador.

5. Our statement on social responsibility

Our focus is to deepen relationships with our key stakeholders by investing in our employees and partnering with our customers, communities, investors and suppliers. We are committed to engage with our employees to provide a challenging, dynamic, inclusive and diverse work environment that supports their professional development, as well as promoting their overall health and wellness. We will support initiatives that benefit the environment, human welfare and education. This includes skills training that advance workforce talent and economic development in the communities in which we operate.

This Corporate Social Responsibility (CSR) Statement formalises how we manage our business processes to produce an overall positive impact on society. To us Corporate Social Responsibility means being a good corporate citizen and describes business behaviours, designed not only to deliver commercial objectives and meet legal requirements, but also have a positive social impact on our community and those communities of our customers and suppliers. It is our desire to run a business responsibly and align our strategy with CSR goals so as to have a significant and positive impact both on the business itself and the communities in which the business operates.

Our team

We are committed to the well-being and continual development of our people and to training our workforce, where employees are appreciated, valued and given regular feedback so that each employee has a clear understanding of their role and how they contribute to the business.

We operate a meritocracy, where all employees are recognised and rewarded on the basis of their performance, effort, contribution and achievements. We expect our employees to act with integrity towards one another and exercise a high standard of business practice and workmanship. We support diversity, fairness and equal opportunities and aim to involve and consult regularly with employees as to the direction of the business.

Our customers

We aim to build long term relationships with all our customers and other stakeholders by understanding their objectives as they evolve over time and meeting their needs. We aim to give fair value, consistent quality and reliability. We aim to have the highest professional and ethical standards and will be honest, open and transparent in all our dealings with customers.

Our suppliers

We aim to create and maintain strong relationships with key suppliers and contractors. We aim to choose suppliers that share our ethos in relation to employment practices, quality and environmental controls. This will be communicated to all suppliers and potential suppliers.

Our service providers

We aim to create and maintain strong relationships with key service providers. We aim to choose providers who share our ethos in relation to employment practices, quality and environmental controls. This will be communicated to all providers and potential providers.

Our health and safety

We aim to achieve and maintain the highest standards of health and safety and provide a safe and healthy working environment for all of our activities. We have a current and effective written health and safety policy that is regularly reviewed and updated.

As a minimum we will achieve full compliance with all legal and other requirements surrounding our business activities. We will drive continuous improvement of health and safety management and performance through the setting and regular reviewing of health and safety objectives and targets across all areas of Paul Murray PLC.

All office staff are offered access to our Mediacash health insurance scheme.

Our community

We recognise and understand the significance of the local community within which we operate. We aim to enhance our contribution to the community by being sensitive to the needs of local people and groups and promoting ethical and socially responsible trading.

Philanthropy

Paul Murray PLC has close fund-raising ties to local charities such as Rose Road disabled children services and Trinity charity for the homeless as well as annual donations to the Southampton City Missions Basics Bank.

6. Our statement on ethical governance

Our focus is to promote strong oversight, vision, transparency and risk management at all levels of our organization, ensuring the resilience and long-term preservation of value for our business.

We will maintain strong corporate governance practices through exemplary board stewardship, management accountability, and proactive risk management. We work towards reducing or removing risk by taking steps to mitigate any risks that may be identified. The Chairman takes responsibility for evaluating risk and for raising such risks at the monthly Board Meeting. Regulatory Affairs is also a permanent agenda item for these Board Meetings. The minutes of these meetings are signed when approved and filed as a record of our deliberations and decisions.

We are committed to high ethical standards through a strong code of ethics and business conduct, and executive leadership that promotes a culture of honesty and integrity. We believe that our ways of working reflect these principles. We hope that such principles are evident to those people with whom we come into contact during our business activities, be they staff, customers or suppliers. We cultivate these strong stakeholder relationships through transparency, open communications, and responding to stakeholder input.

7. Our business and ESG

The ESG policy helps to assess our impact in the community, and take concerted, defined and measurable action to improve it. The ethical and practical values that make up the different parts of ESG have always been at the heart of what we as a company stand for. With the growth of ESG and the increased awareness of these factors among our key stakeholders, we have a better opportunity to make a positive impact in the world.

As a business, we also have a duty to our people, our customers, and the wider community. ESG gives us an opportunity to bring those impacts together. We value investing in our people as we value protecting our environment and being a good corporate citizen.

Fostering openness, sustainability, and respect are our key objectives. We value our team members and stakeholders and strive to work in collaboration. Our view on ESG is that it is a continuous process of aligning our operations and controls with our values as a company.

Our commitment to improve our social and environmental performance demonstrates a strong, well-informed management attitude and a values-led culture that is both alert and responsive to the challenges and opportunities of doing business responsibly and sustainably.

8. ESG and our reputation

ESG is fundamental to our reputation as a business. Reputation is built through frequent and repeated interactions with stakeholders. When those interactions are positive, our business, and our reputation, can thrive. In an uncertain economic climate, positive reputation is one of the key drivers to long term success. We want all our stakeholders, from customers to our staff, to be proud to be a part of our business. Part of that pride is understanding how our business makes a positive contribution to the world.

Environmental - Environmental sustainability is an ethical and commercial imperative. Managing our carbon footprint goes hand in hand with the strategic necessity to operate efficiently. Our commitment to tackling climate change at a corporate level is fundamental to our strategic objectives.

Social - Our people make up our business. Intellectual capital is core to our clients, our business model and our long-term sustainability as a business. We aim to foster an environment that values and nurtures unique talents and contributions from every individual within a culture of inclusivity. While we have progress to make, we are committed to cultivating and empowering change by building an inclusive workplace where all talents can thrive.

Governance - Good governance is foundational to our business, and all aspects of ESG. We cannot thrive without paying attention to our compliance obligations. Our business seeks to go beyond the concept of 'box-ticking' and embed compliance into the heart of our business.

9. ESG and our customers

We have an obligation to our customers to offer them the best service. Customers are at the heart of our business, and without these partnerships our business wouldn't exist. Part of that commitment to customers is about responding to their needs, hearing their concerns and committing ourselves to customer satisfaction. The best customers are those who see us as partners in their own enterprise. In turn, those customers reward us with their continued business, and building and maintaining our world-class reputation.

ESG priorities are drawn not only from shareholder concerns but also customer needs. Customers are asking how we are improving the world around us. It is imperative on us as a business that all of our interactions with customers are positive and that we are a company they are proud to work with and recommend.

That is why it is important to understand ESG, its impact and what it means for our company. We want to feel proud of our business and the positive impact we have on the world, so that our customers will feel the same.

10. ESG and our suppliers

It is necessary to undertake frequent analysis of existing and new suppliers to identify factors that are not compatible with our ESG goals. Various tools can be used to assess the ESG credentials of our supply chain:

Risk assessments: Undertake risk assessment of the value chain in order to identify key vulnerabilities based on supplier and customer needs.

Real-time tracking: Tracking and traceability over suppliers and movements of goods and services.

Screening, risk-ranking & monitoring: ESG due diligence on suppliers to evaluate and rank them based on their ESG profile and track record, and monitoring for ESG breaches.

Investigations: Investigate ESG incidents that take place in the value chain, have remediation plans ready and manage financial and reputational damage.

Incident response management: Build robust internal governance frameworks to respond to ESG issues in the value chain.

11. ESG and our board

The board is responsible for writing the ESG pages inside the annual report and producing all information regarding ESG disclosures.

The aim of the board is to establish a unified view of ESG, increasing understanding of all three aspects, environmental, social and governance, and to promote robust standards of corporate governance that integrate all these aspects. This will help to more effectively integrate ESG factors into the decision-making process.

The key objectives of the board are to:

- Emphasise the importance of environmental measures, sustainability goals and performance, at all levels of the business.
- Provide best practice on the structure, policies and regulations that impact the business
- Increase understanding and awareness of corporate governance and social aspects that impact the industry
- Implement and promote common and workable standards of corporate governance for the business

12. ESG and our employees

Each member of our business has a responsibility to ensure our organisation thrives. When it comes to ESG, this means understanding roles and strategic objectives:

- Our strategic ESG goals
- How we plan to achieve them and over what time
- Individual and team contribution to those goals
- How to discuss our ESG goals with customers and third parties
- Where to report potential concerns or actions which go against our policy

On an individual level, there is an important role to play in meeting our ESG objectives:

Environmental - We all have a role to play in reducing carbon emissions and getting to net zero. While as a business we are setting organisation-level targets, consider the environmental impact of individual decisions. For instance:

- When travelling, are there more environmentally friendly options to take?
- Can some meetings be done remotely instead of travelling?
- Think before printing
- Does the office have recycling and energy saving measures?

Social - Building a diverse and inclusive workforce where everyone feels valued is everyone's responsibility. Understanding individual roles in bringing people together is critical to our success as a business. From hiring the best talent to encouraging all staff to thrive, we want a workplace where people proactively work to be the best:

- Challenge and report discriminatory or offensive behaviour
- Understand diversity and inclusion policies
- Be an active ally for groups often underrepresented
- Lead by example

Governance - Good governance goes beyond having the right policies and procedures in place. It's about embedding compliance in day-to-day work. From completing training on time to actively understanding how regulations affect work, good governance starts from the individual acting ethically:

- Refer to policies and procedures instead of shortcuts
- Be aware of red flags for compliance failures and risks in all areas of work
- Call out poor behaviour or report failures

13. Monitoring and enforcement

We seek to proactively prevent and mitigate instances of non-compliance with this ESG policy.

Any breaches or concerns, including ethical concerns or potential breaches in our commitment to high ethical standards should be reported as soon as possible through our whistleblowing channels.

Progress on this policy is reported to the Board on a regular basis. Active participation and engagement at all levels of the business is of great importance to ensure ownership of ESG by all staff. At minimum, we endeavour to maintain compliance with legislative requirements.

Energy Performance Certificate

Non-Domestic Building



Unit 3
Mountpark Southampton
Wide Lane
SOUTHAMPTON
SO18 2FA

Certificate Reference Number:
9690-3060-0633-0390-6325

This certificate shows the energy rating of this building. It indicates the energy efficiency of the building fabric and the heating, ventilation, cooling and lighting systems. The rating is compared to two benchmarks for this type of building: one appropriate for new buildings and one appropriate for existing buildings. There is more advice on how to interpret this information in the guidance document *Energy Performance Certificates for the construction, sale and let of non-dwellings* available on the Government's website at www.gov.uk/government/collections/energy-performance-certificates.

Energy Performance Asset Rating

More energy efficient

A+

Net zero CO₂ emissions

A 0-25

◀ 11

This is how energy efficient the building is.

B 26-50

C 51-75

D 76-100

E 101-125

F 126-150

G Over 150

Less energy efficient

Technical Information

Main heating fuel:	Grid Supplied Electricity
Building environment:	Air Conditioning
Total useful floor area (m ²):	4693
Building complexity (NOS level):	5
Building emission rate (kgCO ₂ /m ² per year):	6.94
Primary energy use (kWh/m ² per year):	49.27

Benchmarks

Buildings similar to this one could have ratings as follows:

19 If newly built

51 If typical of the existing stock

Administrative Information

This is an Energy Performance Certificate as defined in the Energy Performance of Buildings Regulations 2012 as amended.

Assessment Software:	Virtual Environment v7.0.8 using calculation engine ApacheSim v7.0.8
Property Reference:	603633690000
Assessor Name:	Rob Gill
Assessor Number:	LCEA042813
Accreditation Scheme:	CIBSE Certification Limited
Employer/Trading Name:	Yonder
Employer/Trading Address:	Third Floor, Concordia Works, 30 Sovereign Street, Lees LS1 4BA
Issue Date:	26 Oct 2017
Valid Until:	25 Oct 2027 (unless superseded by a later certificate)
Related Party Disclosure:	Not related to the owner.

Recommendations for improving the energy performance of the building are contained in the associated Recommendation Report - 0660-0343-9639-0620-3096.

About this document and the data in it

This document has been produced following an energy assessment undertaken by a qualified Energy Assessor, accredited by CIBSE Certification Limited. You can obtain contact details of the Accreditation Scheme at cibsecertification.com.

A copy of this certificate has been lodged on a national register as a requirement under the Energy Performance of Buildings Regulations 2012 as amended. It will be made available via the online search function at www.ndepcregister.com. The certificate (including the building address) and other data about the building collected during the energy assessment but not shown on the certificate, for instance heating system data, will be made publicly available at www.opendatacommunities.org.

This certificate and other data about the building may be shared with other bodies (including government departments and enforcement agencies) for research, statistical and enforcement purposes. For further information about how data about the property are used, please visit www.ndepcregister.com. To opt out of having information about your building made publicly available, please visit www.ndepcregister.com/optout.

There is more information in the guidance document *Energy Performance Certificates for the construction, sale and let of non-dwellings* available on the Government website at: www.gov.uk/government/collections/energy-performance-certificates. It explains the content and use of this document, advises on how to identify the authenticity of a certificate and how to make a complaint.

Opportunity to benefit from a Green Deal on this property

The Green Deal can help you cut your energy bills by making energy efficiency improvements at no upfront costs. Use the Green Deal to find trusted advisors who will come to your property, recommend measures that are right for you and help you access a range of accredited installers. Responsibility for repayments stays with the property – whoever pays the energy bills benefits so they are responsible for the payments.

To find out how you could use Green Deal finance to improve your property please call 0300 123 1234.

BREEAM® UK

Code for a Sustainable Built Environment
www.breeam.org

Interim Certificate – Design Stage

This is to certify that:

**Unit 1, 2 & 3 Mountpark Southampton
Wide Lane
Southampton
Hampshire
SO18 2NQ**

has been assessed to:

**BREEAM UK New Construction 2014: Industrial
(Fully Fitted)**

by a licensed assessor for:

Mountpark

and has achieved a score of **72.1%**

Excellent



Certificate Number: **BREEAM-0066-7006**

Issue: **01**

15 September 2017

Date of Issue

Signed on behalf of BRE Global Ltd.

Gavin Dunn

Director, BREEAM

Winvic Construction

Principal Contractor

HWM Building Services

Building Services

Schindler

Lifts

Yonder Limited

Assessor Company

Maartje Heller

Licensed Assessor

MH76

Assessor Number

Michael Sparks Associates

Architect

Arun Thaneja

BREEAM Accredited Professional

Complete Design Partnership

Flood Risk



This certificate is issued by BRE Global Ltd to the Licensed Assessor named above based on their assessment of data provided by the Client and verified at the time of Assessment.

This certificate remains the property of BRE Global Ltd and is issued subject to terms and conditions visit www.greenbooklive.com/terms.

To check the authenticity of this certificate visit www.greenbooklive.com/check, scan the QR Tag or contact us: E: breeam@bre.co.uk T: 0333 321 88 11

BREEAM is a registered trademark of BRE (the Building Research Establishment Ltd. Community Trade Mark E5778551)



bre

Interim Certificate Number: BREEAM-0066-7006

Issue: 01

**Unit 1, 2 & 3 Mountpark Southampton
Wide Lane
Southampton
Hampshire
SO18 2NQ**

Assessed for: Mountpark

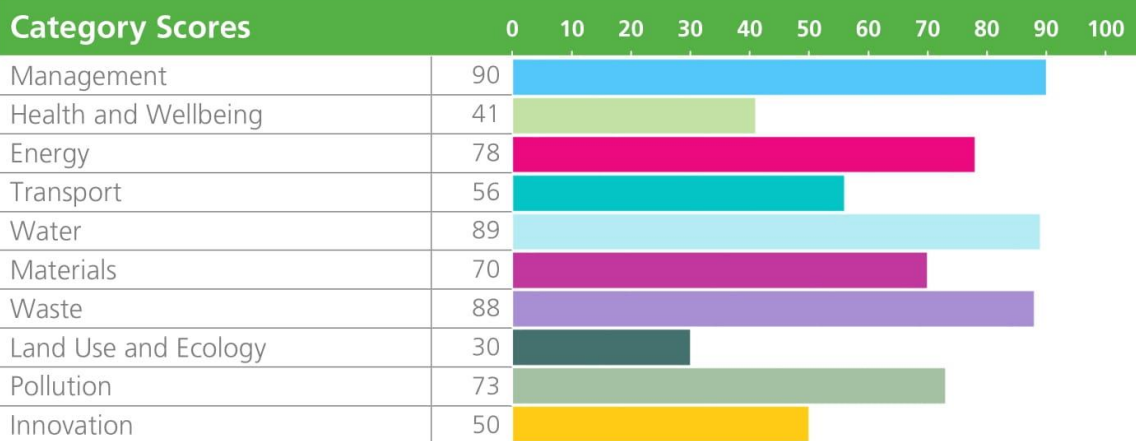
by: Yonder Limited
Assessor Company

Maartje Heller
Licensed Assessor

MH76
Assessor Number

**BREEAM UK New Construction 2014: Industrial
(Fully Fitted)**

Overall Score: 72.1%
Rating: Excellent



Gavin Dunn, Director, BREEAM, BRE Global Ltd.

15 September 2017
Date of Issue



This certificate is issued by BRE Global Ltd to the Licensed Assessor named above based on their assessment of data provided by the Client and verified at the time of Assessment.

This certificate remains the property of BRE Global Ltd and is issued subject to terms and conditions - visit www.greenbooklive.com/terms.

To check the authenticity of this certificate visit www.greenbooklive.com/check, scan the QR Tag or contact us: E: breeam@bre.co.uk T: 0333 321 88 11

BREEAM is a registered trademark of BRE (the Building Research Establishment Ltd. Community Trade Mark E5778551)



BRUKL Output Document



Compliance with England Building Regulations Part L 2013

Project name

Unit 3 Mountpark

As built

Date: Thu Oct 26 18:16:49 2017

Administrative information

Building Details

Address: SOUTHAMPTON, SO18 2FA

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.8

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.8

BRUKL compliance check version: v5.3.a.0

Owner Details

Name:

Telephone number:

Address: , ,

Certifier details

Name: Rob Gill

Telephone number: 01134 931 280

Address: Yonder, Third Floor, Concordia Works, Sovereign Street, Leeds, LS1 4BA

Criterion 1: The calculated CO₂ emission rate for the building must not exceed the target

CO ₂ emission rate from the notional building, kgCO ₂ /m ² .annum	11.5
Target CO ₂ emission rate (TER), kgCO ₂ /m ² .annum	11.5
Building CO ₂ emission rate (BER), kgCO ₂ /m ² .annum	6.9
Are emissions from the building less than or equal to the target?	BER =< TER
Are as built details the same as used in the BER calculations?	Separate submission

Criterion 2: The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Values which do not achieve the standards in the Non-Domestic Building Services Compliance Guide and Part L are displayed in red.

Building fabric

Element	U _a -Limit	U _a -Calc	U _i -Calc	Surface where the maximum value occurs*
Wall**	0.35	0.35	0.35	02000000:Surf[9]
Floor	0.25	0.18	0.18	02000000:Surf[0]
Roof	0.25	0.25	0.25	0200000E:Surf[22]
Windows***, roof windows, and rooflights	2.2	1.17	1.6	02000000:Surf[48]
Personnel doors	2.2	2.2	2.2	02000000:Surf[1]
Vehicle access & similar large doors	1.5	1.5	1.5	0200000E:Surf[2]
High usage entrance doors	3.5	-	-	No High usage entrance doors in building
U _a -Limit = Limiting area-weighted average U-values [W/(m ² K)]		U _i -Calc = Calculated maximum individual element U-values [W/(m ² K)]		
U _a -Calc = Calculated area-weighted average U-values [W/(m ² K)]				
* There might be more than one surface where the maximum U-value occurs.				
** Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.				
*** Display windows and similar glazing are excluded from the U-value check.				
N.B.: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.				

Air Permeability	Worst acceptable standard	This building
m ³ /(h.m ²) at 50 Pa	10	2

Building services

The standard values listed below are minimum values for efficiencies and maximum values for SFPs. Refer to the Non-Domestic Building Services Compliance Guide for details.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- HVAC 2: HTG EV

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.58	0	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

2- HVAC 1: HTG NV

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	0.67	0	-
Standard value	N/A	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

3- HVAC 4: VRF MV

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	4.48	3.56	0	0	0.74
Standard value	2.5*	3.2	N/A	N/A	0.65
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps. For types <=12 kW output, refer to EN 14825 for limiting standards.

1- DHW 1: Thermodynamic

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	4.71	0.006
Standard value	1	N/A

Local mechanical ventilation, exhaust, and terminal units

ID	System type in Non-domestic Building Services Compliance Guide
A	Local supply or extract ventilation units serving a single area
B	Zonal supply system where the fan is remote from the zone
C	Zonal extract system where the fan is remote from the zone
D	Zonal supply and extract ventilation units serving a single room or zone with heating and heat recovery
E	Local supply and extract ventilation system serving a single area with heating and heat recovery
F	Other local ventilation units
G	Fan-assisted terminal VAV unit
H	Fan coil units
I	Zonal extract system where the fan is remote from the zone with grease filter

Zone name	ID of system type	SFP [W/(l/s)]									HR efficiency	
		A	B	C	D	E	F	G	H	I	Zone	Standard
	Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1		
02.00.02 Cleaners		-	-	0.5	-	-	-	-	-	-	-	N/A
02.00.03 Disabled WC/ Shower		-	-	0.5	-	-	-	-	-	-	-	N/A
02.00.07 Reception		-	1.6	0	-	-	-	-	-	-	-	N/A
02.01.00 Open Plan Office		-	1.6	0	-	-	-	-	-	-	-	N/A

Zone name	SFP [W/(l/s)]									HR efficiency	
	A	B	C	D	E	F	G	H	I	Zone	Standard
ID of system type	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1		
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1		
02.01.02 WC	-	-	0.5	-	-	-	-	-	-	-	N/A
02.01.01 WC	-	-	0.5	-	-	-	-	-	-	-	N/A

Zone name	Luminous efficacy [lm/W]			General lighting [W]
	Luminaire	Lamp	Display lamp	
Standard value	60	60	22	
02.00.01 Warehouse Undercroft	102	-	-	794
02.00.02 Cleaners	102	-	-	7
02.00.03 Disabled WC/ Shower	-	102	-	21
02.00.05 Circulation	-	102	-	32
02.00.07 Reception	-	102	102	175
02.00.06 Stair 1	-	102	-	38
02.01.03 Stair 1	-	102	-	25
02.01.05 Circulation	-	102	-	27
02.01.00 Open Plan Office	102	-	-	1029
02.01.02 WC	-	102	-	23
02.01.01 WC	-	102	-	23
02.00.00 Unit 3 Warehouse	102	-	-	18524

Criterion 3: The spaces in the building should have appropriate passive control measures to limit solar gains

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
02.00.01 Warehouse Undercroft	YES (+30.5%)	NO
02.00.07 Reception	NO (-4%)	NO
02.01.00 Open Plan Office	YES (+9.8%)	NO
02.00.00 Unit 3 Warehouse	NO (-39.8%)	NO

Criterion 4: The performance of the building, as built, should be consistent with the calculated BER

Separate submission

Criterion 5: The necessary provisions for enabling energy-efficient operation of the building should be in place

Separate submission

EPBD (Recast): Consideration of alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	YES
Is evidence of such assessment available as a separate submission?	YES
Are any such measures included in the proposed design?	YES

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Area [m ²]	4692.9	4692.9
External area [m ²]	12104.4	12104.4
Weather	SOU	SOU
Infiltration [m ³ /hm ² @ 50Pa]	2	3
Average conductance [W/K]	3908.11	3744.92
Average U-value [W/m ² K]	0.32	0.31
Alpha value* [%]	10	10

* Percentage of the building's average heat transfer coefficient which is due to thermal bridging

Building Use

% Area	Building Type
	A1/A2 Retail/Financial and Professional services
	A3/A4/A5 Restaurants and Cafes/Drinking Est./Takeaways
	B1 Offices and Workshop businesses
	B2 to B7 General Industrial and Special Industrial Groups
100	B8 Storage or Distribution
	C1 Hotels
	C2 Residential Institutions: Hospitals and Care Homes
	C2 Residential Institutions: Residential schools
	C2 Residential Institutions: Universities and colleges
	C2A Secure Residential Institutions
	Residential spaces
	D1 Non-residential Institutions: Community/Day Centre
	D1 Non-residential Institutions: Libraries, Museums, and Galleries
	D1 Non-residential Institutions: Education
	D1 Non-residential Institutions: Primary Health Care Building
	D1 Non-residential Institutions: Crown and County Courts
	D2 General Assembly and Leisure, Night Clubs, and Theatres
	Others: Passenger terminals
	Others: Emergency services
	Others: Miscellaneous 24hr activities
	Others: Car Parks 24 hrs
	Others: Stand alone utility block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	1.2	1.25
Cooling	0.61	0.43
Auxiliary	0.44	0.27
Lighting	9.14	17.39
Hot water	2.33	3.75
Equipment*	30.17	30.17
TOTAL**	13.72	23.1

* Energy used by equipment does not count towards the total for calculating emissions.

** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	0	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0

Energy & CO₂ Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m ²]	16.54	12.42
Primary energy* [kWh/m ²]	49.27	80.09
Total emissions [kg/m ²]	6.9	11.5

* Primary energy is net of any electrical energy displaced by CHP generators, if applicable.

HVAC Systems Performance										
System Type	Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEFF	Cool SSEER	Heat gen SEFF	Cool gen SEER	
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	146.5	0	40.7	0	0	1	0	1	0
	Notional	109.3	0	35.2	0	0	0.86	0	----	----
[ST] Other local room heater - unfanned, [HS] Direct or storage electric heater, [HFT] Electricity, [CFT] Electricity										
	Actual	396.9	0	110.2	0	21.7	1	0	1	0
	Notional	414.1	0	133.4	0	28.9	0.86	0	----	----
[ST] Split or multi-split system, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity										
	Actual	149.1	163.3	9.4	13.9	6.5	4.39	3.27	4.48	4.37
	Notional	89.7	135	9.7	9.9	3.7	2.56	3.79	----	----
[ST] No Heating or Cooling										
	Actual	0	0	0	0	0	0	0	0	0
	Notional	0	0	0	0	0	0	0	----	----

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type

Key Features

Vinciv

The Building Control Body is advised to give particular attention to items whose specifications are better than typically expected.

Building fabric

Element	U _{i-Typ}	U _{i-Min}	Surface where the minimum value occurs*
Wall	0.23	0.35	0200000E:Surf[8]
Floor	0.2	0.18	02000000:Surf[0]
Roof	0.15	0.25	0200000E:Surf[22]
Windows, roof windows, and rooflights	1.5	1	0200000E:Surf[19]
Personnel doors	1.5	2.2	02000000:Surf[1]
Vehicle access & similar large doors	1.5	1.5	0200000E:Surf[2]
High usage entrance doors	1.5	-	No High usage entrance doors in building
U _{i-Typ} = Typical individual element U-values [W/(m ² K)]		U _{i-Min} = Minimum individual element U-values [W/(m ² K)]	
* There might be more than one surface where the minimum U-value occurs.			

Air Permeability	Typical value	This building
m ³ /(h.m ²) at 50 Pa	5	2