

CARBON REDUCTION SCHEME

2023

37 RICHMOUND ROAD

WORTHING

WEST SUSSEX

BN11 1 PW

Works to reduce Co2 by a minimum 20%

REF AWDM/1473/22

The development at 37 Richmond Road is the first in Sussex to be all electric as a accommodation business . The development has been carried out with partners Brighton University, Clean Growth Fund UK and LoCase Kent. The development and future running of the site will make savings of 12 tons of Carbon every year in symbiosis with many other measures the property will far exceed the 20 % Co2 reduction minimum target set.

Heating & Cooling

Panasonic ECO I EX MF3



Heat Recovery with DX Coil

Smart ventilation with heat recovery and able to heat or cool the air. Motorised heat recovery by-pass device automatically controlled by unit control to use fresh air free cooling when convenient. The system has been fitted with Econavi Habitation sensors. The room by room heating and cooling system will be controlled of site via a cloud-based application. The room sensors will establish if guests are present and only provide heating or cooling when necessary. The smart locks fitted to guest doors will also alert the Panasonic software when a guest arrives at the main entrance and will then activate heating or cooling reducing the need for wasted energy. The unique heat exchanger in the system specification reclaims heat or cooling and recycles the energy to save on heating or cooling waste.



The ECO MF3 is probably one of the first to be installed in worthing. The technology is groundbreaking and saves an estimated 12 tons of carbon every year. New technology such as the ECO MF3 means size is a little bigger than its more environmentally harmful predecessors. The size of the unit has

meant there is only one location it can be mounted. Many steps have been taken to reduce the impact on the building. Step 1. Vinyl high resolution wrap to camouflage the unit into the existing brick work step 2. A full tree and plant pack will be placed in eye view of guest and residents mostly obscuring the unit from any visibility especially once the greenery has matured. The unit has a 5 -8 yrs shelf life, Panasonic have suggested once the technology has ameliorated substantially on this type of unit will reduce by 50% in its size.

Construction insulation

The property has been over engineered to a level agreed as Server usage. The 147mm thick walls used to build the rooms along with 100mm Rwa45 sound block insulation will result in minimal temperature movement all year round. Minimal heating or cooling will be necessary. The building was unable to produce an energy rating purchase due to its poor construction. Investment in insulation and all new facilities have resulted in a class B normally defining a new build after 2012.

See Therm energy calculations report fig1 . And full EPC calculations attached .

Lighting

All lighting in the building is of course led and all the public areas are light by 12v DC Neon lighting resulting in the very highest efficiency lighting. The public ways are also controlled by movement inferred sensors accurately only lighting areas people are moving in.



As part of the application we have set KPI and initiatives that will be delivered as part of the prposal and ongoing as part of the USP of the business.

1. we are working with Brighton University to comply with the LoCase funding and green growth fund UK project criteria. All parties monitor and check our business meets the standards of environmental reduction practices and provide information on better working practices to continue to be greener.

2. We have applied to join STEM (part of the LoCase group) and our goal will to be accredited a gold accreditation for lowering Carbon and excellence in environmental working practices

3. We are teaming up with Roccora one of the leading waste providers in the country and originally partly started in Brighton. Ricorra will recycle our waste and provide data sheets every month to our guest on exactly where and how their or other guests waste was processed.

4. The entire building is a smart building, meaning we have completed control of heating/ cooling, lighting and all utilities from API links . We can monitor usage and waste and act immediately to reduce unnecessary utility usage.

5. We encourage the use of electric vehicles to travel to our hotel , to help with the initiative we will pay for all the parking if you visit us with an electric vehicle.

6. At Sleep we are working with our laundry company to only use non-Biological and plant-based washing products. We are also ensuring our laundry is short cycling our wash loads to ensure we considerably reduce Watter waste.

7. We have disconnected the gas supply to the building permanently. We hope to be an example on this practice. We would like all businesses to look at their operating systems and simply cut the gas off . Understandable this may be impossible for some however we believe many businesses could achieve this . Once Gas connections are rare Carbon usages can start to fall. One of our actions is to use our business voice to encourage the local council to prevent Gas connections on new builds and development.

8 . All rooms toilet paper is non bleached and produced with zero carbon from bamboo

Full plan EPC calculations (commercial format)

IMPORTANT NOTE from THERM ENERGY

Please find attached the BRUKL output report along with the EPC for the Hotel at 37 Richmond Road. As the software only shows compliance against new building standards you may look at the document and think the property does not comply with Building Regulations, however I can confirm that all the information entered, and results shown is in compliance with Building Regulations for existing/converted buildings. Building Control will know this when they review the document and will look at the individual entries and confirm they are happy with it. All u-values and M&E services meet the requirements as stated in Building Regulations Part L (2021).

James Barker

Bachelor of Science (BSc)Construction Management and Building Surveying



BRUKL Output Document

HM Government

Compliance with England Building Regulations Part L 2021

Project name

Hotel

As built

Date: Wed Aug 02 13:59:04 2023

Administrative information

Building Details

Address: Hotel, 37 Richmond Road, Worthing, BN11 1PW

Certifier details

Name:

Telephone number:

Address: , ,

Certification tool

Calculation engine: TAS

Calculation engine version: "v9.5.5"

Interface to calculation engine: TAS

Interface to calculation engine version: v9.5.5

BRUKL compliance module version: v6.1.e.0

Foundation area [m²]: 105.03

The CO_2 emission and primary energy rates of the building must not exceed the targets

The building does not comply with England Building Regulations Part L 2021

Target CO_2 emission rate (TER), $kgCO_2/m^2annum$	30.07	
Building CO_2 emission rate (BER), $kgCO_2/m^2annum$	48.72	
Target primary energy rate (TPER), kWh_{PE}/m^2annum	322.68	
Building primary energy rate (BPER), kWh_{PE}/m^2annum	518.96	
Do the building's emission and primary energy rates exceed the targets?	BER > TER	BPER > TPER

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

Fabric element	$U_{a\text{-}Limit}$	$U_{a\text{-}Calc}$	$U_{i\text{-}Calc}$	First surface with maximum value
Walls*	0.26	0.6	0.6	External Wall
Floors	0.18	0.5	0.5	Ground Floor
Pitched roofs	0.16	0.15	0.17	Slope Roof
Flat roofs	0.18	-	-	No flat roofs in project
Windows** and roof windows	1.6	4.96	4.96	W01
Rooflights***	2.2	-	-	No rooflights in project
Personnel doors^	1.6	2	2	D01
Vehicle access & similar large doors	1.3	-	-	No vehicle access or similar large doors in project
High usage entrance doors	3	-	-	No high usage entrance doors in project

$U_{a\text{-}Limit}$ = Limiting area-weighted average U-values [W/(m²K)] $U_{i\text{-}Calc}$ = Calculated maximum individual element U-values [W/(m²K)]

$U_{a\text{-}Calc}$ = Calculated area-weighted average U-values [W/(m²K)]

* 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. *** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
$m^3/(h.m^2)$ at 50 Pa	8	15

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	NO
Whole building electric power factor achieved by power factor correction	<0.9

1- Bed (3 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	4	5	-	-	-
Standard value	2.5*	3	N/A	N/A	N/A
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.					

2- Bed (6 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	4	-	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
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.					

3- Ensuite (9 Zones)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	-	-	-
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

4- Circ

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	1	-	-	-	-
Standard value	0.86	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES

1- New HWS Circuit

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	1	0
Standard value	1	N/A

Zone-level mechanical ventilation, exhaust, and terminal units

ID	System type in the Approved Documents
A	Local supply or extract ventilation units
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 balanced supply and extract ventilation system
E	Local balanced supply and extract ventilation units
F	Other local ventilation units
G	Fan assisted terminal variable air volume units
H	Fan coil units
I	Kitchen extract with the fan remote from the zone and a grease filter
NB: Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.	

Zone name	SFP [W/(l/s)]									HR efficiency	
ID of system type	A	B	C	D	E	F	G	H	I		
Standard value	0.3	1.1	0.5	2.3	2	0.5	0.5	0.4	1	Zone	Standard
GF_Ensuite 1	-	-	0.5	-	-	-	-	-	-	-	N/A
GF_Ensuite 2	-	-	0.5	-	-	-	-	-	-	-	N/A
GF_Ensuite 3	-	-	0.5	-	-	-	-	-	-	-	N/A
GF_Ensuite 4	-	-	0.5	-	-	-	-	-	-	-	N/A
GF_Ensuite 5	-	-	0.5	-	-	-	-	-	-	-	N/A
1F_Ensuite 1	-	-	0.5	-	-	-	-	-	-	-	N/A
1F_Ensuite 2	-	-	0.5	-	-	-	-	-	-	-	N/A
1F_Ensuite 3	-	-	0.5	-	-	-	-	-	-	-	N/A
1F_Ensuite 4	-	-	0.5	-	-	-	-	-	-	-	N/A

General lighting and display lighting	General luminaire	Display light source	
Zone name	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
Standard value	95	80	0.3
GF_Bed 1	95	-	-
GF_Bed 2	95	-	-
GF_Bed 3	95	-	-
GF_Bed 4	95	-	-
GF_Bed 5	95	-	-
GF_Ensuite 1	95	-	-
GF_Ensuite 2	95	-	-
GF_Ensuite 3	95	-	-
GF_Ensuite 4	95	-	-
GF_Ensuite 5	95	-	-
GF_Circulation 1	95	-	-
GF_Circulation 2	95	-	-
GF_Storage 1	95	-	-
1F_Bed 1	95	-	-
1F_Bed 2	95	-	-
1F_Bed 3	95	-	-
1F_Bed 4	95	-	-
1F_Ensuite 1	95	-	-
1F_Ensuite 2	95	-	-
1F_Ensuite 3	95	-	-
1F_Ensuite 4	95	-	-
1F_Circulation 1	95	-	-
1F_Circulation 2	95	-	-
1F_Storage 1	95	-	-

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
GF_Bed 1	YES (+95%)	NO
GF_Bed 2	NO (-3%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
GF_Bed 3	YES (+35%)	NO
GF_Bed 4	NO (-3%)	NO
GF_Bed 5	YES (+9%)	NO
1F_Bed 1	NO (-19%)	NO
1F_Bed 2	NO (-43%)	NO
1F_Bed 3	YES (+35%)	NO
1F_Bed 4	NO (-45%)	NO

Regulation 25A: Consideration of high efficiency 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
Floor area [m²]	222	222
External area [m²]	776	776
Weather	SOU	SOU
Infiltration [m³/hm²@ 50Pa]	15	3
Average conductance [W/K]	653	292
Average U-value [W/m²K]	0.84	0.38
Alpha value* [%]	34.77	19.77

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

Building Use

% Area	Building Type
	Retail/Financial and Professional Services
	Restaurants and Cafes/Drinking Establishments/Takeaways
	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
100	**Hotels**
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
	Residential Spaces
	Non-residential Institutions: Community/Day Centre
	Non-residential Institutions: Libraries, Museums, and Galleries
	Non-residential Institutions: Education
	Non-residential Institutions: Primary Health Care Building
	Non-residential Institutions: Crown and County Courts
	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	153.67	46.32
Cooling	0.01	0.46
Auxiliary	1.68	1.35
Lighting	9.38	7.88
Hot water	174.02	172.06
Equipment*	37.97	37.97
TOTAL**	**338.77**	**228.08**

* Energy used by equipment does not count towards the total for consumption or 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	10.93
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	*0*	*10.93*

Energy & CO_2 Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	796.43	272.95
Primary energy [kWh_{PE}/m²]	518.96	322.68
Total emissions [kg/m²]	48.72	30.07

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 SSEEF	Cool SSEER	Heat gen SEFF	Cool gen SEER
[ST] Split or multi-split system, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
	Actual	542.5	0.3	37.7	0	0	4	5	4	5
	Notional	68.6	14.6	7.2	0.9	0	2.64	4.4	----	----
[ST] No Heating or Cooling										
	Actual	2071.2	0	575.3	0	13.9	1	0	1	0
	Notional	964	0	199.8	0	11.2	1.34	0	----	----
[ST] Other local room heater - unfanned, [HS] Room heater, [HFT] Electricity, [CFT] Electricity										
	Actual	848.6	0	235.7	0	0	1	0	1	0
	Notional	279.8	0	58	0	0	1.34	0	----	----

Key to terms

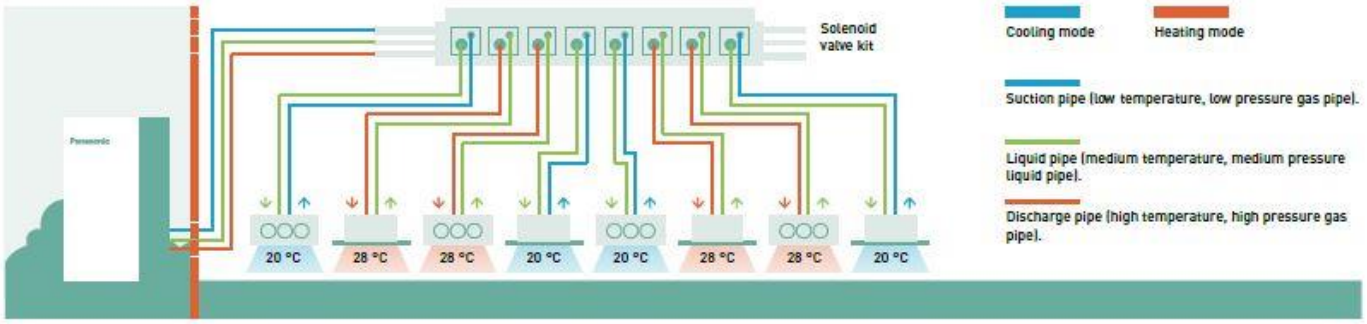
Heat dem [MJ/m2] = Heating energy demand
Cool dem [MJ/m2] = Cooling energy demand
Heat con [kWh/m2] = Heating energy consumption
Cool con [kWh/m2] = Cooling energy consumption
Aux con [kWh/m2] = Auxiliary energy consumption
Heat SSEFF = Heating system seasonal efficiency (for notional building, value 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

Slim 3-Pipe control box kit / Multiple connection type

Heat recovery Box to connect multiple indoor units with just one box, 4, 6 and up to 8 indoor units or groups.
The height is only 200 mm, which is especially advantageous in hotel applications, where space for connecting several boxes is limited.

Individual control of multiple indoor units with solenoid valve kits.
- Any design and layout can be used in a single system.
- Cooling operation is possible up to an outdoor temperature of -10 °C.

System structure.

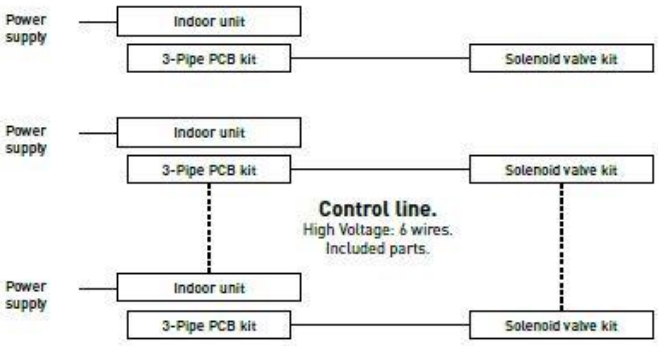




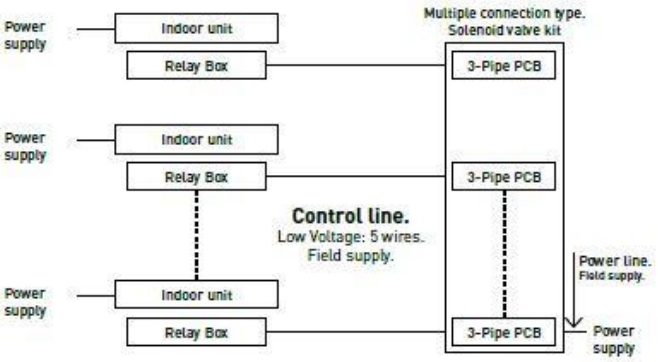
	1 port	4 port	6 port	8 port
56 type	CZ-P56HR3	CZ-P456HR3	CZ-P656HR3	CZ-P856HR3
160 type	CZ-P160HR3	CZ-P4160HR3	—	—

Solenoid valve kit / wiring work

Current model / single connection type.



New model / multiple connection type.



3-Pipe PCB kit.
Separately purchased.



Single HR3 kit.



Signal Relay Box.
Included accessory.



Multiple HR3 kit.



3-Pipe ECOi EX MF3 Series

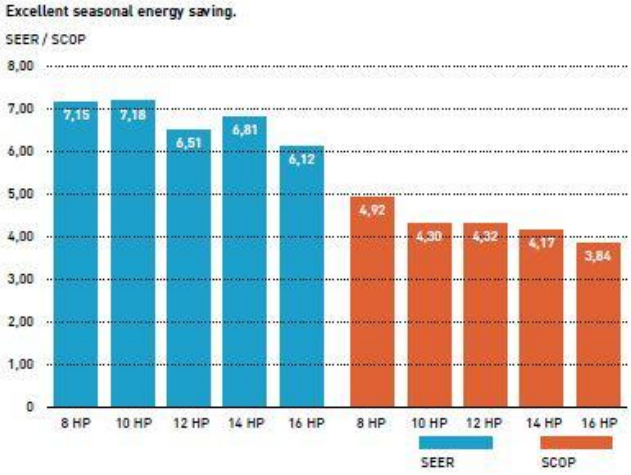
Simultaneous heating and cooling VRF system.
The Panasonic 3-Pipe ECOi EX MF3 Series offers the best solution for the most discerning customers and demanding installations.

Simultaneous heating and cooling VRF System

The Panasonic 3-Pipe ECOi EX MF3 Series offers the ideal solution to meet customer's demands.

Upgraded energy efficiency utilized ECOi EX technology.
- SEER / SCOP improved in full capacities from 8 to 16 HP
- SEER / SCOP follows LOT21 (January 2018)
- Eurovent certified EER / COP

Design flexibility.
- High reliability even under extreme temperature conditions
- Connection of up to 52 indoor units
- Slim heat recovery box with just 200 mm height
- Farthest piping length between indoor and outdoor units: 200 m

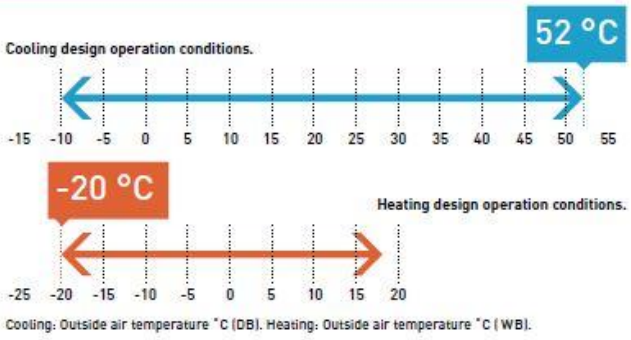


Extended design operation conditions

Cooling design operation conditions: The cooling operating range has been extended to -10 °C ~ 52 °C by changing the outdoor fan to an Inverter type.
Heating design operation conditions: Stable heating operation even with an outside air temperature of -20 °C. The heating operating range has been extended to -20 °C by use of a compressor with a high-pressure vessel.

Wide temperature setting range

Wired remote controller heating temperature setting range is 16 to 30 °C as standard.



Increased maximum number of connectable indoor units

Maximum 48 HP with 52 indoor units can be set up according to user needs.
Connectable indoor / outdoor unit capacity ratio up to 150 %.

System (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Connectable indoor units*: 150 %	19	24	29	34	39	43	48	52				52									

*Depending on indoor units types. Please check service manuals.

Power suppression control for energy saving (demand control) [1]

The 3-Pipe ECOi EX MF3 Series has a built-in demand function which uses the inverter characteristics. With this demand function, the power consumption can be set in three steps, and operation [2] at optimum performance is performed according to the setting and the power consumption. This function is useful to reduce the annual power consumption and to save electricity costs while maintaining comfort.

1) An outdoor Seri-Para I/O unit is required for demand input.
2) Setting is possible as 0 % or in the range from 40 to 100 % (in steps of 5 %). At the time of shipping, setting has been done to the three steps of 0 %, 70 %, and 100 %.

Energy Performance Certificate

Non-Domestic Building

HM Government

Hotel
37 Richmond Road
Worthing
BN11 1PW

Certificate Reference Number:
5619-0942-0503-7517-1479

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



Technical information

Main heating fuel:	Grid Supplied Electricity
Building environment:	Air Conditioning
Total useful floor area (m^2):	222
Building complexity:	Level 5
Building emission rate ($kgCO_2/m^2$ per year):	48.72
Primary energy use (kWh_{PE}/m^2 per year):	518.96

Benchmarks

Buildings similar to this one could have ratings as follows:

16 If newly built

64 If typical of the existing stock

ONLY FOR ILLUSTRATION

Administrative information

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

Assessment Software:	TAS v9.5.5 using calculation engine TAS v9.5.5
Property Reference:	UPRN-123456789012
Assessor Name:	
Assessor Number:	LCEA000000
Accreditation Scheme:	CIBSE Certification Limited
Assessor Qualifications:	NOS5
Employer/Trading Name:	
Employer/Trading Address:	
Issue Date:	02 Aug 2023
Valid Until:	01 Aug 2033 (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: 2619-7159-3790-0567-4810

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 www.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 and 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.

FOR ILLUSTRATION ONLY

Jun21 v4

C34 – Estimated GHG Reductions

This Standard Form will act as confirmation that Eco Otel Limited has been assisted in making GHG reductions as a direct result of the intervention provided. We confirm that making GHG reductions has been achieved in line with the Carbon Capture Template completed at application stage.

1. Baseline measure of KWh/CO2e consumed by previous technology, product or activity.
2. Manufacture specification for the technology or product to evidence the KWh/CO2e consumed by the technology.
3. Reference to an independent verification (Carbon Capture Template) that supports the claim of the manufacturer and/or that of the applicant in adaptation of process/operation.

Enterprise:

Organisation Name*	Eco Otel Limited
Postcode:*	BN11 1PW
Building Name:	West Sussex County Building
Secondary Name:	Sleep .
Street:	37 Richmond Road
District:	West Sussex
Town:	Worthing
County:	West Sussex
Telephone*	07515552793
Email*	andy@loveproto.com
Trading Status*	Ltd
Date Assistance Received*	03-Feb-2023
No. of Employees (FTE)*	7
GHG Baseline	72.2
GHG Data (Current)	60.08
Forename*	Andrew
Surname*	Sparsis
Position Within Organisation*	Founder

Signature: *

Date: *18-Jul-2023



Tuesday, 18 July 2023 19:37:21

IP Address: 2.125.25.31

The Low Carbon Across the South and East Programme has been funded by the European Regional Development Fund 2014-20. It is a partnership between the Kent County Council, Basingstoke & Deane Borough Council, East Sussex County Council, Essex County Council, Isle of Wight Council, Portsmouth City Council, Rushmoor Borough Council, Southampton City Council, Southend-on-Sea Borough Council, Surrey County Council, Test Valley Borough Council, Thurrock Council, the University of Brighton, the University of Portsmouth, West Sussex County Council, and Winchester City Council.

European Union
European Regional Development Fund

HM Government

LOCASE
LOW CARBON ACROSS THE SOUTH AND EAST

Jun21v4

Standard Form (C34)

C34 – Estimated GHG Reductions

This Standard Form will act as confirmation that **Eco Otel Ltd** has been assisted in making GHG reductions as a direct result of the intervention provided. We confirm that making GHG reductions has been achieved in line with the Carbon Capture Template completed at application stage.

- Baseline measure of KWh/CO_2e consumed by previous technology, product, or activity.
- Manufacture specification for the technology or product to evidence the KWh/CO_2e consumed by the technology.
- Reference to an independent verification (Carbon Capture Template) that supports the claim of the manufacturer and/or that of the applicant in adaptation of process/operation.

Enterprise:

Company Name	Eco Otel Ltd		
Address	Eco Otel Limited, West Sussex County Building, 37 Richmond Road, Worthing, West Sussex, BN11 1PW		
Telephone	07515552793	**Email**	andy@loveproto.com
Trading Status	Limited Company	**No of Employees**	7
Date Assistance Received	3rd February 2023		
GHG Baseline	72.20 tonnes CO2e	**GHG Data (Current)**	60.08 tonnes CO2e
Name	Andrew Sparsis	**Position**	Founder/Director
Signature		**Date**	

The Low Carbon Across the South and East Programme has been funded by the European Regional Development Fund 2014-20. It is a partnership between the Kent County Council, Basingstoke & Deane Borough Council, East Sussex County Council,

naked sprout

The UK's Most Sustainable Tissue Products



Certified B Corporation

This company meets the highest standards of social and environmental impact

IMPACT - 2022

With our pioneering manufacturing process, our impact is as low as it can be. The benefits are passed on to our customers, lessening the everyday impact of their homes and workplaces.

IMPACT - 2022 IN NUMBERS

HARSH CHEMICALS



With no bleach, dyes, fragrances or harsh chemicals used in our manufacturing we prevented **12,269 litres of chemicals** from entering our water ways in 2022. **That's 153 full bath loads.**

PLASTIC



We have saved **3 tonnes of plastic** from entering landfill. That's the equivalent of **154,321 million plastic bottles**, or more than the weight of **an elephant**!

DEFORESTATION



By manufacturing using 100% bamboo we have saved **14,410 trees** being cut down. That's the amount you'd find growing in **18 acres of UK woodland** or the equivalent of **288 tennis courts.**

CARBON



With 100% renewable energy generated on-site at our factory we've stopped over **97 tonnes** of carbon entering the atmosphere - the equivalent of **burning 823 barrels of oil.**