From:

Subject: FW: URGENT: Planning Conditions to clear - Spa development at Ox Pasture Hall

01 March 2022 09:56:40

CVC to book in please

From: Mick Paxton

Sent: 28 February 2022 06:58

To: Jill Bastow

Subject: Fwd: URGENT: Planning Conditions to clear - Spa development at Ox Pasture Hall

hi jill - hope your keeping ok and I have been asked by ox pasture hall to send you the outstanding information for closure of the conditions for the application and they have also sent the attached landscape plan as well - hope this is ok but please contact me if you require any further information - thanks mick

----- Forwarded message -----

From: General Manager- Ox Pasture Hall Date: Wed, Feb 9, 2022 at 10:33 AM

Subject: URGENT: Planning Conditions to clear - Spa development at Ox Pasture Hall

Hi Mick,

I have attached to this email the following information for the planning conditions you should have apart from the biomass information which i have now attached-

Condition 3 - External Lighting

Drawing attached to this email

Condition 11 - Roof Lights

Information attached to this email

Condition 13 - External Fixtures (signage, roof flues etc)

Drawing from yourself was to be produced to show boiler room flue

Condition 14 - to Confirm Flues shall be coloured Matt Black

Please confirm to Jill Bastow all flues in Matt Black

Condition 17 - Biomass Boiler information to be sent

Attached information for Biomass boiler + email from Ian Robinson both confirm at least 10% offset of CO2 using biomass to comply with this condition

Kind regards,

Jay Badsha General Manager Ox Pasture Hall Hotel

----Original Message-----

From: To:

Sent: Wed, 9 Feb 2022 8:53

Subject: URGENT: Planning Conditions to clear - Spa development at Ox Pasture Hall

Hi Jav.

Please check with Mick Paxton to see which planning conditions still need to be cleared. I think he has the information for some. Please speak with Mick and send him any information he needs

I think we still need to clear the following

Condition 3 - External Lighting

Condition 11 - Roof Lights

Condition 13 - External Fixtures (signage, roof flues etc)

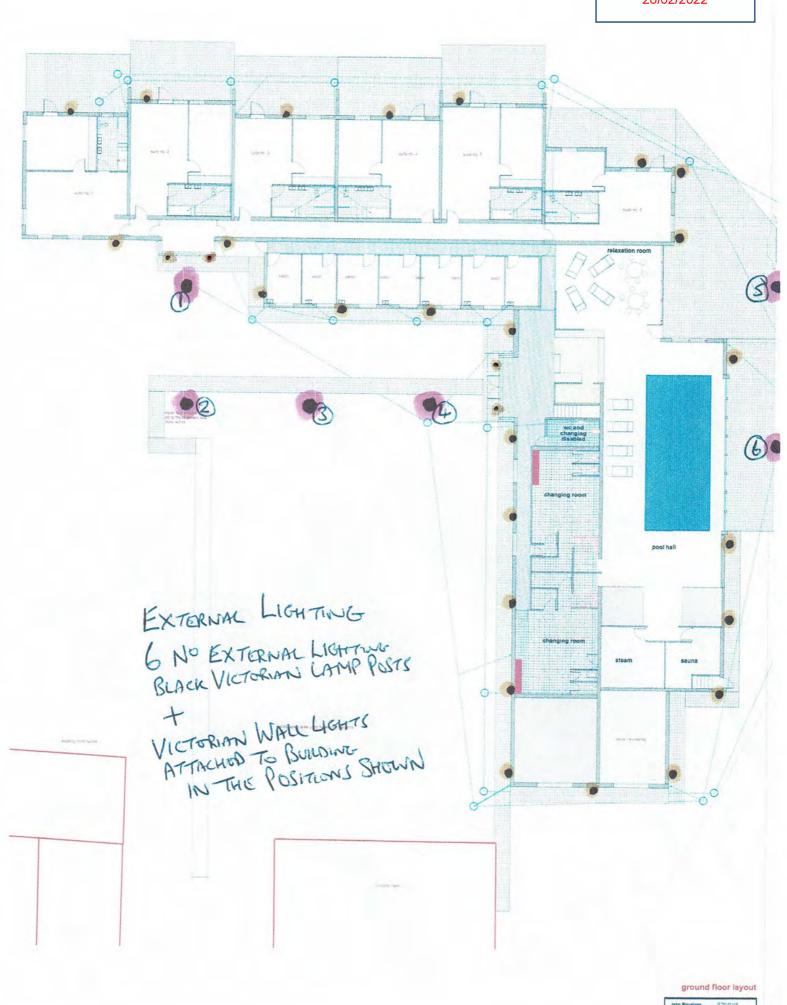
Condition 14 - to Confirm Flues shall be coloured Matt Black

Condition 15 - Landscaping Scheme

Condition 17 - Biomass Boiler information to be sent

All these Conditions are now Urgent	
Thank you	
Shaun	

Mick may already have cleared some of these off already. Please check with Mick





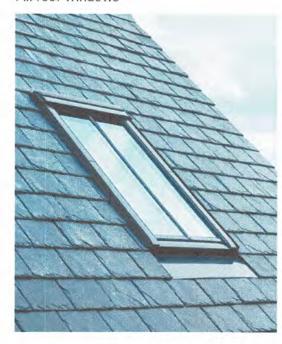
Homeowner 🕶

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Roof windows Conservation roof windows

All roof windows



Conservation roof windows

From £547.00 excl. VAT

All the benefits of a VELUX roof window with a traditional appearance.

Our classic windows blend tastefully into the roof of your old building with a vertical centre bar and black finish exterior. All our conservation roof windows have the technically superior features of a VELUX roof window in a traditional black conservation style. No matter what type of glazing you choose, you'll have the added benefit of energy efficiency and all the features you'd expect.

Product features:

- · Available in either centre-pivot or top-hung opening.
- Black external profiles and glazing bar.
- Recessed installation possible for slate and tile roofs.
- Rotates 180° for easy cleaning of the outer pane.
- Insulation collar and Underfelt collar included in all conservation packages.

55cm WIDE X 98cm HIGH.

Sizes and Prices

Internal finish and glazing



White painted finish

- Above head height
- --70 pane



BRUKL Output Document



Compliance with England Building Regulations Part L 2013

Project name

NYMNPA 28/02/2022

As designed

Hotel Leisure Complex

Date: Mon Feb 15 12:45:51 2021

Administrative information

Building Details

Address: Ox Pasture Hall Country House Hotel, Lady Ediths Drive, SCARBOROUGH, YO12 5TD

Certification tool

Calculation engine: SBEM

Calculation engine version: v5.6.a.2 Interface to calculation engine: iSBEM

Interface to calculation engine version: v5.6.a BRUKL compliance check version: v5.6.a.1

Owner Details

Name: Ox Pasture Hall Country House Hotel

Telephone number: Information not provided by the user Address: Lady Edith's Drive, SCARBOROUGH, YO12 5TD

Certifier details

Name: Iain Robinson

Telephone number: 01904490686

Address: 1A Princess Road, YORK, YO32 5UE

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	113.5
Target CO ₂ emission rate (TER), kgCO ₂ /m ² .annum	113.5
Building CO ₂ emission rate (BER), kgCO ₂ /m ² .annum	111.5
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	Ua-Limit	Ua-Calc	Ui-Calc	Surface where the maximum value occurs
Wall**	0.35	0.2	0.2	Wall.S.1
Floor	0.25	0.12	0.14	Floor.1.1.1
Roof	0.25	0.22	0.22	Roof.1.1.1.1.1
Windows***, roof windows, and rooflights	2.2	1.4	1.4	W.S.1
Personnel doors	2.2	1.4	1.4	D.N.1.1
Vehicle access & similar large doors	1.5	-	-	"No external vehicle access doors"
High usage entrance doors	3.5	-	-	"No external high usage entrance doors"

U_{e-Limit} = Limiting area-weighted average U-values [W/(m²K)]

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

U_{I-Calc} = Calculated maximum individual element U-values [W/(m²K)]

* 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
m³/(h.m²) at 50 Pa	10	7

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	NO
Whole building electric power factor achieved by power factor correction	<0.9

1- LPG Bolier

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficienc	
This system	0.93	-	-	-	-	
Standard value	0.93*	N/A	N/A	N/A	N/A	
Automatic moni	itoring & targeting w	ith alarms for out-of	f-range values for th	is HVAC system	m YES	
* Standard shown is	for LPG single boiler system	ms <=2 MW output. For sin nulti-boiler system, limiting	gle boiler systems >2 MW			

1- Default HWS

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	Hot water provided by HVAC system	0.013
Standard value	N/A	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
В	Zonal supply system where the fan is remote from the zone
С	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
Н	Fan coil units
1	Zonal extract system where the fan is remote from the zone with grease filter

Zone name		SFP [W/(I/s)]					UD a	fficiency			
ID of system type	A	В	0.5	D	E	F	G	Н	1	HIVE	inciency
Standard value	0.3	1.1			1.6	6 0.5	1.1	0.5		Zone	Standard
ZO/01/04	-	-	-	1	-	-	-	-	-	0.89	0.5

General lighting and display lighting	Lumino	ous effic			
Zone name	ame Luminaire		Display lamp	General lighting [W	
Standard value	60	60	22		
ZO/01/04	-	100		2652	
ZO/01/07	50	-	-	485	
ZO/01/01	-	100	-	732	
ZO/01/02	-	100	-	596	
ZO/01/03	-	100	-	170	
ZO/01/05	-	100	-	306	
ZO/01/06	-	100	-	414	
ZO/02/01	-	100	-	538	
ZO/02/02	-	100	-	151	

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?
ZO/01/04	YES (+13.7%)	NO
ZO/01/01	NO (-62.8%)	NO
ZO/01/02	NO (-69.3%)	NO
ZO/01/03	NO (-33.6%)	NO
ZO/02/01	NO (-69.4%)	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?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

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Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

Building Use

100

	Actual	Notional
Area [m²]	1320.5	1320.5
External area [m²]	2933.8	2933.8
Weather	LEE	LEE
Infiltration [m³/hm²@ 50Pa]	7	3
Average conductance [W/K]	712.34	996.92
Average U-value [W/m²K]	0.24	0.34
Alpha value* [%]	17.93	13.56
	and deliberated that an extract product are the reservence	

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

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
B8 Storage or Distribution
C1 Hotels
C2 Residential Institutions: Hospitals and Care Homes
C2 Residential Institutions: Residential schools
and the second s

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	56	76.57
Cooling	0	0
Auxiliary	5.56	3.71
Lighting	17.58	11.58
Hot water	356.71	362.09
Equipment*	45.81	45.81
TOTAL**	435.85	453.94

^{*} 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	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0

Energy & CO₂ Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m²]	285.73	328.22
Primary energy* [kWh/m²]	520.88	523.89
Total emissions [kg/m²]	111.5	113.5

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

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Sy	stem 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
[S]	T] No Heatir	ng or Coolin	g							
	Actual	50.8	127.2	0	0	8.8	0	0	0	0
	Notional	150.4	24.4	0	0	7.6	0	0		
S	T] Central h	eating using	water: floo	or heating,	[HS] LTHW	boiler, [HF	T] LPG, [C	FT] Electric	ity	
	Actual	248.1	81.6	78.8	0	4.2	0.87	0	0.93	0
	Notional	317.8	73	107.8	0	2.1	0.82	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

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Key Features

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

Building fabric

Element	U _{I-Тур}	U _{i-Min}	Surface where the minimum value occurs*
Wall	0.23	0.2	Wall.S.1
Floor	0.2	80.0	Floor.1.1.1.1
Roof	0.15	0.22	Roof.1.1.1.1.1
Windows, roof windows, and rooflights	1.5	1.4	W.S.1
Personnel doors	1.5	1.4	D.N.1.1
Vehicle access & similar large doors	1.5	-	"No external vehicle access doors"
High usage entrance doors	1.5	-	"No external high usage entrance doors"
U _{I-Typ} = Typical individual element U-values [W/(m ² / _I * There might be more than one surface where the		J-value oc	U _{I-Min} = Minimum individual element U-values [W/(m²K)] curs.

Air Permeability	Typical value	This building	
m³/(h.m²) at 50 Pa	5	7	

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SBEM Calculations 10% reduction in CO2

Mon, Feb 15, 2021 at 1:08 PM

Jay

Please find attached the SBEM Compliance Reports under Part L2A of the Building Regulations showing the CO2 reductions achieved by using a Bio-Mass boiler against a standard LPG Gas boiler.

The Building Target Co2 emissions figure using LPG Gas as a heating form is 113.45 KgCo2/m2/yr. and compliance is shown by the Building Emissions rate being 111.47 KgCo2/m2/yr.

To comply with the planning condition 17 (a 10% reduction in Co2) a Bio Mass boiler is proposed. The Target Emissions Rate is 25.14 KgCo2/m2/yr. the Building Emissions Rate achieved is 25.38 KgCo2/m2/yr. thus showing compliance, with Building Regulations

The overall reduction in Co2 by using a Bio mass boiler is 77% over a traditional LPG gas boiler, thus showing compliance with the planning condition.

Kind regards

NYMNPA

28/02/2022

lain Robinson

Architectural & Creative Design Ltd

Architectural & Creative Design Ltd 1A Princess Road York YO32 5UE - Co No 75813225

Elmhurst Licensed On Construction Domestic Energy Assessors (OCDEA) and Commercial Building Energy Assessors (iSBEM)

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2 attachments



Ox Pasture Hall Leisure Complex 2020_Bio Mass Boiler_brukl.pdf

Ox Pasture Hall Leisure Complex 2020_LPG Gas Heating_brukl.pdf 279K

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BRUKL Output Document



Compliance with England Building Regulations Part L 2013

Project name

NYMNPA

Hotel Leisure Complex

28/02/2022

As designed

Date: Wed Aug 05 12:07:45 2020

Administrative information

Building Details

Address: Ox Pasture Hall Country House Hotel, Lady Ediths Drive, SCARBOROUGH, YO12 5TD

Certification tool

Calculation engine: SBEM

Calculation engine version: v5.6.a.1
Interface to calculation engine: iSBEM

Interface to calculation engine version: v5.6.a

BRUKL compliance check version: v5.6.a.1

Owner Details

Name: Ox Pasture Hall Country House Hotel

Telephone number: Information not provided by the user Address: Lady Edith's Drive, SCARBOROUGH, YO12 5TD

Certifier details

Name: lain Robinson

Telephone number: 01904 490686

Address: 1A Princess Road, YORK, YO32 5UE

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	25.4
Target CO ₂ emission rate (TER), kgCO ₂ /m ² .annum	25.4
Building CO₂ emission rate (BER), kgCO₂/m².annum	25.4
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	Ua-Limit	Ua-Calc	Ui-Calc	Surface where the maximum value occurs
Wall**	0.35	0.2	0.2	Wall.S.1
Floor	0.25	0.12	0.14	Floor.1.1.1
Roof	0.25	0.22	0.22	Roof.1.1.1.1.1
Windows***, roof windows, and rooflights	2.2	1.4	1.4	W.S.1
Personnel doors	2.2	1.4	1.4	D.N.1.1
Vehicle access & similar large doors	1.5	-	-	"No external vehicle access doors"
High usage entrance doors	3.5	-	-	"No external high usage entrance doors"

U_{a-Limit} = Limiting area-weighted average U-values [W/(m²K)]

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

U_{I-Calc} = Calculated maximum individual element U-values [W/(m²K)]

* 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 standa		This building
m³/(h.m²) at 50 Pa	10	7

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	NO
Whole building electric power factor achieved by power factor correction	<0.9

1- Bio-Mass Boiler

	Heating efficiency	Cooling efficiency	Radiant efficiency	nt efficiency SFP [W/(I/s)]		
This system	0.89			-	-	
Standard value	0.75	N/A	N/A	N/A	N/A	
Automatic moni	itoring & targeting w	ith alarms for out-of	-range values for th	is HVAC system	m YES	

1- Default HWS

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	Hot water provided by HVAC system	0.013
Standard value	N/A	N/A

Local mechanical ventilation, exhaust, and terminal units

ID	System type in Non-domestic Building Services Compliance Guide						
Α	Local supply or extract ventilation units serving a single area						
В	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						
Н	Fan coil units						
1	Zonal extract system where the fan is remote from the zone with grease filter						

Zone name		SFP [W/(I/s)]					UD.	HR efficiency			
ID of system typ	A	В	B C 1.1 0.5	D	D E 1.9 1.6	F	G 5 1.1	H 0.5	1	TIK efficiency	
Standard value	0.3	1.1				0.5				Zone	Standard
ZO/01/04	-	-	-	1	-	-	-	-	-	0.89	0.5

General lighting and display lighting	Luminous efficacy [lm/W]			
Zone name	Luminaire	Lamp	Display lamp	General lighting [W]
Standard value	60	60	22	
ZO/01/04	-	100	-	2652
ZO/01/07	50	-	-	485
ZO/01/01	-	100	-	732
ZO/01/02	-	100	-	596
ZO/01/03	-	100	-	170
ZO/01/05	-	100	-	306
ZO/01/06	-	100	-	414
ZO/02/01	-	100	-	538
ZO/02/02	-	100	-	151

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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?
ZO/01/04	YES (+13.7%)	NO
ZO/01/01	NO (-62.8%)	NO
ZO/01/02	NO (-69.3%)	NO
ZO/01/03	NO (-33.6%)	NO
ZO/02/01	NO (-69.4%)	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?	NO
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	NO

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Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

Building Use

% Area

100

	Marine Warrison	
	Actual	Notional
Area [m²]	1320.5	1320.5
External area [m²]	2933.8	2933.8
Weather	LEE	LEE
Infiltration [m³/hm²@ 50Pa]	7	3
Average conductance [W/K]	712.34	996.92
Average U-value [W/m²K]	0.24	0.34
Alpha value* [%]	17.93	13.56

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

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
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	58.55	99.53
Cooling	0	0
Auxiliary	5.56	3.71
Lighting	17.58	11.58
Hot water	372.74	470.72
Equipment*	45.81	45.81
TOTAL**	454.42	585.54

^{*} 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.

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28/02/2022

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]	285.73	328.22
Primary energy* [kWh/m²]	506.63	621.71
Total emissions [kg/m²]	25.4	25.4

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

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
[S	T] No Heatir	ng or Coolin	g							
	Actual	50.8	127.2	0	0	8.8	0	0	0	0
	Notional	150.4	24.4	0	0	7.6	0	0		
[S	T] Central h	eating using	water: floo	or heating,	[HS] LTHW	boiler, [HF	T] Biomas	s, [CFT] Ele	ctricity	
	Actual	248.1	81.6	82.4	0	4.2	0.84	0	0.89	0
	Notional	317.8	73	140.1	0	2.1	0.63	0	l	

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

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Key Features

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

Building fabric

Element	U _{i-Тур}	U _{i-Min}	Surface where the minimum value occurs*
Wall	0.23	0.2	Wall.S.1
Floor	0.2	0.08	Floor.1.1.1.1
Roof	0.15	0.22	Roof.1.1.1.1.1
Windows, roof windows, and rooflights	1.5	1.4	W.S.1
Personnel doors	1.5	1.4	D.N.1.1
Vehicle access & similar large doors	1.5	-	"No external vehicle access doors"
High usage entrance doors	1.5	-	"No external high usage entrance doors"
U _{FTyp} = Typical individual element U-values [W/(m ²)] * There might be more than one surface where the	**	J-value oc	U _{I-Min} = Minimum individual element U-values [W/(m²K)] curs.

Air Permeability	Typical value	This building	
m3/(h.m2) at 50 Pa	5	7	

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