BRUKL Output Document



Compliance with England Building Regulations Part L 2013

Project name

Hertfordshire Constabulary Headquarters As designed

Date: Tue Jul 06 13:24:26 2021

Administrative information

Building Details

Address: Stanborough Road, Welwyn Garden City, AL8

6XF

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.13

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.13

BRUKL compliance check version: v5.6.b.0

Certifier details

Name: Name

Telephone number: Phone

Address: Street Address, City, Postcode

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	19.1
Target CO ₂ emission rate (TER), kgCO ₂ /m ² .annum	19.1
Building CO ₂ emission rate (BER), kgCO ₂ /m ² .annum	14.2
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}	Ua-Calc	Ui-Calc	Surface where the maximum value occurs*
Wall**	0.35	0.12	0.12	000000F:Surf[0]
Floor	0.25	0.12	0.12	LG00002D:Surf[0]
Roof	0.25	0.12	0.12	0000003D:Surf[0]
Windows***, roof windows, and rooflights	2.2	1.4	1.4	00000001:Surf[0]
Personnel doors	2.2	2.2	2.2	00000078:Surf[12]
Vehicle access & similar large doors	1.5	-	-	No Vehicle access doors in building
High usage entrance doors	3.5	-	-	No High usage entrance doors in building
the first transfer of	111 217)7	1		

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

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

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

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	3.5

^{*} 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.

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- _heating only - nvhr

Heating efficiency	Cooling efficiency Radiant efficiency		SFP [W/(I/s)]	HR efficiency				
3.74	-	0	0	-				
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								
	3.74 2.5*	3.74 - 2.5* N/A	3.74 - 0 2.5* N/A N/A	2.5* N/A N/A N/A				

^{*} 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.

2- _fcu

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency				
This system	3.74	4.14	0	1.5	-				
Standard value	2.5*	2.55	N/A	1.6^	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. For types <=12 kW output, refer to EN 14825

3- _heating only - hr 76%

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency				
This system	3.74	-	0	0	0.76				
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. For types <=12 kW output, refer to EN 14825 for limiting standards.

4- fcu - hr 76%

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency					
This system	3.74	4.14	0	1.5	0.76					
Standard value	2.5*	2.55	N/A	1.6^	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. For types <=12 kW output, refer to EN 14825 for limiting standards.

5- _constant volume - hr 74%

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(I/s)]	HR efficiency
This system	3.74	4.14	0	1.86	0.74
Standard value	2.5*	2.55	N/A	1.6^	N/A

Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system YES

for limiting standards.

A Limiting SEP may be extended by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes

[^] Limiting SFP may be extended by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.

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^{*} 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.

[^] Limiting SFP may be extended by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.

6- _heating - mech vent kitchen

This system 3.74 - 0 0	-							
Standard value2.5*N/AN/AN/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. For types <=12 kW output, refer to EN 14825 for limiting standards.

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
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
Е	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
I	Zonal extract system where the fan is remote from the zone with grease filter

Zone name		SFP [W/(I/s)]									
ID of system type	Α	В	С	D	E	F	G	Н	ı	HRE	efficiency
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard
0.01_FF_Server	-	-	-	-	-	-	-	0.3	-	-	N/A
0.01_FF_WCs	-	0.8	0.9	-	-	-	-	-	-	-	N/A
0.01_FF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.01_FF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.01_FF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.02_SF_Server	-	-	-	-	-	-	-	0.3	-	-	N/A
0.02_SF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.02_SF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.02_SF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.02_SF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.02_SF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.03_TF_Server	-	-	-	-	-	-	-	0.3	-	-	N/A
0.03_TF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.03_TF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.03_TF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.03_TF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.03_TF_WCs	-	8.0	0.9	-	-	-	-	-	-	-	N/A
0.0_GF_Cold Water Storage	-	-	-	-	-	-	-	0.5	-	-	N/A
0.0_GF_I.T. Comms	-	-	-	-	-	-	-	0.3	-	-	N/A
0.0_GF_Mechanical pumps and Ther	mal st	ores	-	-	-	-	-	0.5	-	-	N/A
0.0_GF_Meeting room	-	-	-	-	-	-	-	0.3	-	-	N/A
0.0_GF_Meeting room	-	-	-	-	-	-	-	0.3	-	-	N/A
0.0_GF_Server	-	-	-	-	-	-	-	0.3	-	-	N/A

[&]quot;No HWS in project, or hot water is provided by HVAC system"

SFP [W/(I/s)]					<i>cc</i> : -:					
Α	В	С	D	Е	F	G	Н	ı	HRE	efficiency
0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard
-	0.8	0.9	-	-	-	-	-	-	-	N/A
-	0.8	0.9	-	-	-	-	-	-	-	N/A
-	0.8	0.9	-	-	-	-	-	-	-	N/A
-	0.8	0.9	-	-	-	-	-	-	-	N/A
-	-	-	-	-	-	-	0.5	-	-	N/A
-	-	-	0.7	-	-	-	-	-	-	N/A
-	-	-	-	-	-	-	0.5	-	-	N/A
-	-	-	-	-	-	-	0.3	-	-	N/A
-	-	-	-	-	-	-	0.3	-	-	N/A
-	0.8	0.9	-	-	-	-	-	-	-	N/A
-	-	-	-	-	-	-	0.3	-	-	N/A
_	-	-	-	-	-	-	0.3	-	-	N/A
_	-	-	-	-	-	-	0.3	-	-	N/A
-	-	-	-	-	-	-		-	-	N/A
-	-	-	-	-	-	-		-	-	N/A
_	-	-	_	_	-	_		-	-	N/A
-	-	-	-	-	-	-		-	-	N/A
_	-	-	-	-	-	-		-	-	N/A
_	-	-	_	_	-	_	-	-	-	N/A
_	-	-	_	_	-	_		-	-	N/A
_	-	-	-	-	-	-		-	-	N/A
_	-	-	-	-	-	-		-	-	N/A
_	-	-	-	-	-	-	0.3	-	-	N/A
_	-	-	-	-	-	-	0.3	-	-	N/A
_	-	-	-	-	-	-		-	-	N/A
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eter)	-	-	-	-	-	-		-	-	N/A
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Zone name					SF	P [W/	(l/s)]				шр.	fficionav
	ID of system type	Α	В	С	D	E	F	G	Н	ı	пке	fficiency
	Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard
0.03 TF Meeti	ng room (Perimeter)	-	-	-	_	-	-	-	0.3	-	_	N/A

General lighting and display lighting	Luminous efficacy [lm/W]]	
Zone name	Luminaire	Lamp	Display lamp	General lighting [W]	
Standard value	60	60	22		
0.01_FF_Circulation	-	100	-	30	
0.01_FF_Circulation	-	100	-	30	
0.01_FF_Server	90	-	-	47	
0.01_FF_Stair	-	100	-	78	
0.01_FF_Stair	-	100	-	81	
0.01_FF_Stair	-	100	-	78	
0.01_FF_Stair	-	100	-	81	
0.01_FF_WCs	-	100	-	101	
0.01_FF_WCs	-	100	-	101	
0.01_FF_WCs	-	100	-	113	
0.01_FF_WCs	-	100	-	93	
0.02_SF_Circulation	-	100	-	30	
0.02_SF_Circulation	-	100	-	30	
0.02_SF_Server	90	-	-	47	
0.02_SF_Stair	-	100	-	78	
0.02_SF_Stair	-	100	-	78	
0.02_SF_Stair	-	100	-	81	
0.02_SF_Stair	-	100	-	81	
0.02_SF_WCs	-	100	-	101	
0.02_SF_WCs	-	100	-	101	
0.02_SF_WCs	-	100	-	113	
0.02_SF_WCs	-	100	-	71	
0.02_SF_WCs	-	100	-	88	
0.03_TF_Circulation	-	100	-	30	
0.03_TF_Circulation	-	100	-	30	
0.03_TF_Circulation	-	100	-	112	
0.03_TF_Circulation	-	100	-	234	
0.03_TF_Server	90	-	-	47	
0.03_TF_Stair	-	100	-	81	
0.03_TF_Stair	-	100	-	81	
0.03_TF_Stair	-	100	-	78	
0.03_TF_Stair	-	100	-	78	
0.03_TF_WCs	-	100	-	101	
0.03_TF_WCs	-	100	-	101	
0.03_TF_WCs	-	100	-	113	
0.03_TF_WCs	-	100	-	71	
0.03_TF_WCs	-	100	-	88	
0.0_GF_Circulation	-	100	-	30	

General lighting and display lighting	Luminous efficacy [lm/W]				
Zone name	Luminaire	Lamp	Display lamp	General lighting [W	
Standard value	60	60	22		
0.0_GF_Circulation	-	100	-	69	
0.0_GF_Circulation	-	100	-	69	
0.0_GF_Circulation	-	100	-	156	
0.0_GF_Circulation	-	100	-	159	
0.0_GF_Cold Water Storage	90	-	-	261	
0.0_GF_Entrance Hall	-	100	25	3198	
0.0_GF_I.T. Comms	90	-	-	133	
0.0_GF_Mechanical pumps and Thermal stores	90	-	-	303	
0.0_GF_Meeting room	90	-	-	185	
0.0_GF_Meeting room	90	-	-	249	
0.0_GF_Reception office	90	-	-	329	
0.0_GF_Restaurant and Agile working	-	100	-	1223	
0.0_GF_Server	90	-	-	47	
0.0_GF_Showers	-	100	-	236	
0.0_GF_Stair	_	100	-	78	
0.0_GF_Stair	-	100	-	81	
0.0_GF_Stair	-	100	-	81	
0.0_GF_Stair	-	100	_	78	
0.0_GF_WCs	-	100	_	101	
0.0_GF_WCs	-	100	_	101	
0.0_GF_WCs	-	100	_	113	
0.0_GF_WCs	-	100	_	93	
LG_LGF_Electrical Plant	90	-	_	236	
LG_LGF_Kitchen	-	100	_	1041	
LG LGF Kitchen AHU Plant	90	-	_	377	
LG_LGF_Restaurant	_	100	-	1722	
LG_LGF_Server	90	-	-	41	
LG_LGF_Staff welfare	90	-	-	219	
LG_LGF_Stair	-	100	-	76	
LG_LGF_Stair	-	100	-	73	
LG_LGF_WCs	-	100	_	93	
0.0_GF_Meeting room (Perimeter)	90	-	_	144	
0.0_GF_Meeting room	90	_	_	90	
0.0_GF_Meeting room (Perimeter)	90	_	_	262	
0.0_GF_Meeting room	90	_	_	159	
0.0_GF_Meeting room (Perimeter)	90	_	_	346	
0.0_GF_Meeting room	90	_	_	164	
0.0_GF_Meeting room	90	-	-	146	
0.0_GF_Meeting room	90	_	-	121	
0.0_GF_Agile working	90	_	_	464	
0.0_GF_Agile working (Perimeter)	90	_	-	228	
0.0_GF_Meeting room	90	_	_	62	
0.0_GF_Meeting room (Perimeter)	90		-	144	

General lighting and display lighting	Lumino	ous effic	acy [lm/W]	
Zone name	Luminaire	Lamp	Display lamp	General lighting [W]
Standard value	60	60	22	
0.0_GF_Meeting room	90	-	-	63
0.0_GF_Meeting room (Perimeter)	90	-	-	145
0.0_GF_Meeting room	90	-	-	78
0.0_GF_Meeting room (Perimeter)	90	-	-	172
0.0_GF_Conference / Meeting	90	-	-	762
0.0_GF_Conference / Meeting (Perimeter)	90	-	-	504
0.01_FF_Office_East (Perimeter)	90	-	-	757
0.01_FF_Office_East	90	-	-	1070
0.01_FF_Office_East (Perimeter)	90	-	-	912
0.01_FF_Meeting room	90	-	-	261
0.01_FF_Meeting room (Perimeter)	90	-	_	228
0.01_FF_Office_West (Perimeter)	90	-	-	668
0.01_FF_Office_West	90	_	_	1560
0.01_FF_Office_West (Perimeter)	90	_	_	140
0.01_FF_Office_West (Perimeter)	90	- _	_	911
0.01_FF_Office_West	90	-	-	1071
	90	-	-	757
0.01_FF_Office_West (Perimeter)		-	-	
0.01_FF_Office_East (Perimeter)	90	-	-	667
0.01_FF_Office_East	90	-	-	1707
0.01_FF_Meeting room	90	-	-	261
0.01_FF_Meeting room (Perimeter)	90	-	-	228
0.02_SF_Office_West (Perimeter)	90	-	-	911
0.02_SF_Office_West	90	-	-	1071
0.02_SF_Office_West (Perimeter)	90	-	-	757
0.02_SF_Office_East (Perimeter)	90	-	-	544
0.02_SF_Office_East	90	-	-	1810
0.02_SF_Meeting room	90	-	-	98
0.02_SF_Meeting room (Perimeter)	90	-	-	228
0.02_SF_Green room (Perimeter)	90	-	-	147
0.02_SF_Green room	90	-	-	86
0.02_SF_Office_East (Perimeter)	90	-	-	757
0.02_SF_Office_East	90	-	-	1070
0.02_SF_Office_East (Perimeter)	90	-	-	912
0.02_SF_Office_West (Perimeter)	90	-	-	668
0.02_SF_Meeting room	90	-	-	97
0.02_SF_Meeting room (Perimeter)	90	-	-	228
0.02_SF_Office_West	90	_	-	1582
0.02_SF_Office_West (Perimeter)	90	-	-	282
0.03_SF_Safeguarding_West (Perimeter)	90	-	-	911
0.03_SF_Safeguarding_West	90	-	-	1071
0.03_SF_Safeguarding_West (Perimeter)	90	-	-	757
0.03_SF_Safeguarding_East (Perimeter)	90	-	-	667
0.03_SF_Safeguarding_East	90	-	-	1862

General lighting and display lighting	Lumino			
Zone name	Luminaire	Lamp	Display lamp	General lighting [W
Standard value	60	60	22	
0.03_TF_Meeting room (Perimeter)	90	-	-	228
0.03_TF_Meeting room	90	-	-	98
0.03_TF_Executive open plan office (Perimeter)	90	-	-	276
0.03_TF_HFRS (3P) (Perimeter)	90	-	-	158
0.03_TF_HFRS (3P)	90	-	-	78
0.03_TF_Meeting room	90	-	-	261
0.03_TF_Meeting room (Perimeter)	90	-	-	228
0.03_TF_OPCC (2P) (Perimeter)	90	-	-	145
0.03_TF_OPCC (2P)	90	-	-	70
0.03_TF_OPCC (2P) (Perimeter)	90	-	-	145
0.03_TF_OPCC (2P)	90	-	-	70
0.03_TF_PES (3P) (Perimeter)	90	-	-	145
0.03_TF_PES (3P)	90	-	-	70
0.03_TF_Meeting room (Perimeter)	90	-	-	145
0.03_TF_Meeting room	90	-	-	70
0.03_TF_PES (3P) (Perimeter)	90	-	-	145
0.03_TF_PES (3P)	90	-	-	70
0.03_TF_Executive open plan office	90	-	-	530
0.03_TF_Executive open plan office (Perimeter)	90	-	-	345
0.03_TF_HFRS (6P)	90	-	-	127
0.03_TF_HFRS (6P) (Perimeter)	90	-	-	262
0.03_TF_HFRS Exec	90	-	-	73
0.03_TF_HFRS Exec (Perimeter)	90	-	-	145
0.03_TF_HFRS Exec	90	-	-	73
0.03_TF_HFRS Exec (Perimeter)	90	-	-	145
0.03_TF_OPCC Exec	90	-	-	81
0.03_TF_OPCC Exec (Perimeter)	90	-	-	145
0.03_TF_Meeting room	90	-	-	81
0.03_TF_Meeting room (Perimeter)	90	-	-	145
0.03_TF_PES Exec	90	-	-	81
0.03_TF_PES Exec (Perimeter)	90	-	-	145
0.03_TF_PES Exec	90	-	-	81
0.03_TF_PES Exec (Perimeter)	90	-	-	145
0.03_TF_OPCC Exec	90	-	-	81
0.03_TF_OPCC Exec (Perimeter)	90	-	-	145
0.03_TF_OPCC Exec	90	-	-	81
0.03_TF_OPCC Exec (Perimeter)	90	-	-	145

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?
0.01_FF_Server	N/A	N/A
0.02_SF_Server	N/A	N/A
0.03_TF_Server	N/A	N/A

D.Q.GF_Cold Water Storage	Zone	Solar gain limit exceeded? (%)	Internal blinds used?
0.0_GF_Inchanical pumps and Thermal stores N/A N/A 0.0_GF_Mechanical pumps and Thermal stores N/A N/A 0.0_GF_Meeting room N/O N/O 0.0_GF_Meeting room N/A N/A 0.0_GF_Restaurant and Agile working N/O -32% 0.0_GF_Server N/A N/A 0.0_GF_Server N/A N/A N/A N/A N/A LG_LGF_Electrical Plant N/A N/A LG_LGF_Kitchen AHU Plant N/A N/A LG_LGF_Restaurant YES (+180%) NO LG_LGF_Server YES (+232.5%) NO LG_LGF_Server YES (+232.5%) NO LG_LGF_Staff welfare N/A N/A 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-58.6%) NO 0.0_GF_Meeting room (Perimeter) NO (-58.6%) NO 0.0_GF_Meeting room (Perimeter) NO (-52.2%) NO 0.0_GF_Mee	0.0_GF_Cold Water Storage	N/A	N/A
0.0_GF_Meeting room N/O (-99.5%) N/O 0.0_GF_Meeting room NO (-99.5%) NO 0.0_GF_Meeting room N/A N/A 0.0_GF_Reception office N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 0.0_GF_Recepting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-58.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-58.9%) NO <	0.0_GF_Entrance Hall	YES (+363.6%)	NO
0.0_GF_Meeting room NO (-99.5%) NO 0.0_GF_Meeteling room N/A N/A 0.0_GF_Reception office N/A N/A 0.0_GF_Restaurant and Agile working NO (-32%) NO 0.0_GF_Server N/A N/A N/A N/A N/A LG_LGF_Electrical Plant N/A N/A LG_LGF_Kitchen AHU Plant N/A N/A LG_LGF_Restaurant YES (+180%) NO LG_LGF_Server YES (+232.5%) NO LG_LGF_Staff welfare N/A N/A 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-87.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-58.6%) NO 0.0_GF_Meeting room (Perimeter) NO (-58.6%) NO 0.0_GF_Meeting room (Perimeter) NO (-58.8%) NO 0.0_GF_Meeting room (NO (-58.9%) NO NO (-59.8%) NO 0.0_GF_Meeting room (Perimeter) NO (-57.9%) <	0.0_GF_I.T. Comms	N/A	N/A
0.0_GF_Meeting room N/A N/A N/A 0.0_GF_Reception office N/A N/A N/A 0.0_GF_Restaurant and Agile working NO (-32%) NO 0.0_GF_Server N/A N/A N/A LG_GF_Server N/A N/A N/A LG_LGF_Kitchen AHU Plant N/A N/A N/A LG_LGF_Server YES (+180%) NO NO LG_LGF_Staff welfare N/A N/A N/A 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-85.6%) NO 0.0_GF_Meeting room (Perimeter) NO (-55.6%) NO 0.0_GF_Meeting room (Perimeter) NO (-56.8%) NO 0.0_GF_Meeting room (Perimeter) NO (-51.7%) NO 0.0_GF_Meeting room (Perimeter) NO (-51.7%) NO 0.0_GF_Meeting room NO (-51.7%) NO 0.0_GF_Meeting room NO (-75%) NO 0.0_GF_Agile working NO (-79%)	0.0_GF_Mechanical pumps and Thermal stores	N/A	N/A
0.0_GF_Reception office N/A N/A N/A 0.0_GF_Restaurant and Agile working NO (-32%) NO 0.0_GF_Server N/A N/A N/A LG_LGF_Electrical Plant N/A N/A N/A LG_LGF_Electrical Plant N/A N/A N/A LG_LGF_Restaurant YES (+180%) NO LG_LGF_Server YES (+232.5%) NO LG_LGF_Staff welfare N/A N/A 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-87.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-56.8%) NO 0.0_GF_Meeting room (Perimeter) NO (-56.8%) NO 0.0_GF_Meeting room (Perimeter) NO (-55.8%) NO 0.0_GF_Meeting room (Perimeter) NO (-55.8%) NO 0.0_GF_Meeting room NO (-75%) NO 0.0_GF_Agile working (Perimeter) NO (-75%) NO 0.0_GF_Agile working (Perimeter) NO (-70.4%) NO	0.0_GF_Meeting room	NO (-99.5%)	NO
0.0_GF_Restaurant and Agile working	0.0_GF_Meeting room	N/A	N/A
D.O.GF_Server	0.0_GF_Reception office	N/A	N/A
LG_LGF_Electrical Plant N/A N/A LG_LGF_Kitchen AHU Plant N/A N/A LG_LGF_Restaurant YES (+180%) NO LG_LGF_Starf YES (+232.5%) NO LG_LGF_Staff welfare N/A N/A 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-58.6%) NO 0.0_GF_Meeting room (Perimeter) NO (-58.6%) NO 0.0_GF_Meeting room (Perimeter) NO (-56.8%) NO 0.0_GF_Meeting room (Perimeter) NO (-55.2%) NO 0.0_GF_Meeting room (Perimeter) NO (-51.7%) NO 0.0_GF_Meeting room (Perimeter) NO (-59.8%) NO 0.0_GF_Agile working NO (-75%) NO 0.0_GF_Agile working (Perimeter) NO (-75%) NO 0.0_GF_Meeting room (Perimeter) NO (-71%) NO 0.0_GF_Meeting room (Perimeter) NO (-71%) NO 0.0_GF_Meeting room (Perimeter) NO (-70.4%) NO 0.0_GF_Meetin	0.0_GF_Restaurant and Agile working	NO (-32%)	NO
LG_LGF_Kitchen AHU Plant	0.0_GF_Server	N/A	N/A
LG_LGF_Restaurant	LG_LGF_Electrical Plant	N/A	N/A
LG_LGF_Server	LG_LGF_Kitchen AHU Plant	N/A	N/A
LG_LGF_Staff welfare	LG_LGF_Restaurant	YES (+180%)	NO
0.0_GF_Meeting room (Perimeter) NO (-84.9%) NO 0.0_GF_Meeting room NO (-87.9%) NO 0.0_GF_Meeting room (Perimeter) NO (-58.6%) NO 0.0_GF_Meeting room NO (-56.8%) NO 0.0_GF_Meeting room (Perimeter) NO (-52.2%) NO 0.0_GF_Meeting room NO (-51.7%) NO 0.0_GF_Meeting room NO (-59.8%) NO 0.0_GF_Meeting room NO (-59.8%) NO 0.0_GF_Meeting room NO (-79%) NO 0.0_GF_Agile working NO (-79%) NO 0.0_GF_Agile working (Perimeter) NO (-79%) NO 0.0_GF_Meeting room NO (-71%) NO 0.0_GF_Meeting room (Perimeter) NO (-71%) NO 0.0_GF_Meeting room (Perimeter) NO (-70.4%) NO 0.0_GF_Meeting room (Perimeter) NO (-70.4%) NO 0.0_GF_Meeting room (Perimeter) NO (-70.7%) NO 0.0_GF_Meeting room (Perimeter) NO (-70.7%) NO 0.0_GF_Conference / Meeting NO (-70.7%) NO 0.0_GF_Conference / Meeti	LG_LGF_Server	YES (+232.5%)	NO
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0.0_GF_Meeting room (Perimeter) NO (-71%) NO 0.0_GF_Meeting room NO (-70.4%) NO 0.0_GF_Meeting room (Perimeter) NO (-74%) NO 0.0_GF_Meeting room (Perimeter) NO (-77.3%) NO 0.0_GF_Meeting room (Perimeter) NO (-73.5%) NO 0.0_GF_Conference / Meeting NO (-70.7%) NO 0.0_GF_Conference / Meeting (Perimeter) NO (-19.6%) NO 0.01_FF_Office_East (Perimeter) NO (-77.7%) NO 0.01_FF_Office_East (Perimeter) NO (-70.5%) NO 0.01_FF_Office_East (Perimeter) NO (-43.1%) NO 0.01_FF_Meeting room NO (-84.8%) NO 0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West (Perimeter) NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.0_GF_Agile working (Perimeter)	NO (-79%)	NO
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0.0_GF_Meeting room (Perimeter) NO (-74%) NO 0.0_GF_Meeting room NO (-77.3%) NO 0.0_GF_Meeting room (Perimeter) NO (-73.5%) NO 0.0_GF_Conference / Meeting NO (-70.7%) NO 0.0_GF_Conference / Meeting (Perimeter) NO (-19.6%) NO 0.01_FF_Office_East (Perimeter) NO (-77.7%) NO 0.01_FF_Office_East (Perimeter) NO (-70.5%) NO 0.01_FF_Office_East (Perimeter) NO (-43.1%) NO 0.01_FF_Meeting room NO (-84.8%) NO 0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West (Perimeter) NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.0_GF_Meeting room (Perimeter)	NO (-71%)	NO
0.0_GF_Meeting room NO (-77.3%) NO 0.0_GF_Meeting room (Perimeter) NO (-73.5%) NO 0.0_GF_Conference / Meeting NO (-70.7%) NO 0.0_GF_Conference / Meeting (Perimeter) NO (-19.6%) NO 0.01_FF_Office_East (Perimeter) NO (-77.7%) NO 0.01_FF_Office_East (Perimeter) NO (-70.5%) NO 0.01_FF_Office_East (Perimeter) NO (-43.1%) NO 0.01_FF_Meeting room NO (-84.8%) NO 0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West (Perimeter) NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.0_GF_Meeting room	NO (-70.4%)	NO
0.0_GF_Meeting room (Perimeter) NO (-73.5%) NO 0.0_GF_Conference / Meeting NO (-70.7%) NO 0.0_GF_Conference / Meeting (Perimeter) NO (-19.6%) NO 0.01_FF_Office_East (Perimeter) NO (-77.7%) NO 0.01_FF_Office_East (Perimeter) NO (-70.5%) NO 0.01_FF_Office_East (Perimeter) NO (-43.1%) NO 0.01_FF_Meeting room NO (-84.8%) NO 0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West (Perimeter) NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.0_GF_Meeting room (Perimeter)	NO (-74%)	NO
0.0_GF_Conference / Meeting NO (-70.7%) NO 0.0_GF_Conference / Meeting (Perimeter) NO (-19.6%) NO 0.01_FF_Office_East (Perimeter) NO (-77.7%) NO 0.01_FF_Office_East NO (-70.5%) NO 0.01_FF_Office_East (Perimeter) NO (-43.1%) NO 0.01_FF_Meeting room NO (-84.8%) NO 0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West (Perimeter) NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.0_GF_Meeting room	NO (-77.3%)	NO
0.0_GF_Conference / Meeting (Perimeter) NO (-19.6%) NO 0.01_FF_Office_East (Perimeter) NO (-77.7%) NO 0.01_FF_Office_East NO (-70.5%) NO 0.01_FF_Office_East (Perimeter) NO (-43.1%) NO 0.01_FF_Meeting room NO (-84.8%) NO 0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West (Perimeter) NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.0_GF_Meeting room (Perimeter)	NO (-73.5%)	NO
0.01_FF_Office_East (Perimeter) NO (-77.7%) NO 0.01_FF_Office_East NO (-70.5%) NO 0.01_FF_Office_East (Perimeter) NO (-43.1%) NO 0.01_FF_Meeting room NO (-84.8%) NO 0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West (Perimeter) NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.0_GF_Conference / Meeting	NO (-70.7%)	NO
0.01_FF_Office_East NO (-70.5%) NO 0.01_FF_Office_East (Perimeter) NO (-43.1%) NO 0.01_FF_Meeting room NO (-84.8%) NO 0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.0_GF_Conference / Meeting (Perimeter)	NO (-19.6%)	NO
0.01_FF_Office_East (Perimeter) NO (-43.1%) NO 0.01_FF_Meeting room NO (-84.8%) NO 0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.01_FF_Office_East (Perimeter)	NO (-77.7%)	NO
0.01_FF_Meeting room NO (-84.8%) NO 0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.01_FF_Office_East	NO (-70.5%)	NO
0.01_FF_Meeting room (Perimeter) NO (-67%) NO 0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.01_FF_Office_East (Perimeter)	NO (-43.1%)	NO
0.01_FF_Office_West (Perimeter) NO (-47.6%) NO 0.01_FF_Office_West NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.01_FF_Meeting room	NO (-84.8%)	NO
0.01_FF_Office_West NO (-5.9%) NO 0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.01_FF_Meeting room (Perimeter)	NO (-67%)	NO
0.01_FF_Office_West (Perimeter) NO (-75.5%) NO 0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.01_FF_Office_West (Perimeter)	NO (-47.6%)	NO
0.01_FF_Office_West (Perimeter) NO (-63.9%) NO	0.01_FF_Office_West	NO (-5.9%)	NO
	0.01_FF_Office_West (Perimeter)	NO (-75.5%)	NO
0.01_FF_Office_West NO (-75.2%) NO	0.01_FF_Office_West (Perimeter)	NO (-63.9%)	NO
	0.01_FF_Office_West	NO (-75.2%)	NO
0.01_FF_Office_West (Perimeter) NO (-60.2%) NO	0.01_FF_Office_West (Perimeter)	NO (-60.2%)	NO
0.01_FF_Office_East (Perimeter) NO (-57.5%) NO	0.01_FF_Office_East (Perimeter)	NO (-57.5%)	NO
0.01_FF_Office_East YES (+3.2%) NO	0.01_FF_Office_East	YES (+3.2%)	NO
0.01_FF_Meeting room NO (-82.7%) NO	0.01_FF_Meeting room	NO (-82.7%)	NO
0.01_FF_Meeting room (Perimeter) NO (-52%) NO	0.01_FF_Meeting room (Perimeter)	NO (-52%)	NO
0.02_SF_Office_West (Perimeter) NO (-60.6%) NO	0.02_SF_Office_West (Perimeter)	NO (-60.6%)	NO
0.02_SF_Office_West NO (-73.2%) NO	0.02_SF_Office_West	NO (-73.2%)	NO

0.02_SF_Office_West (Perimeter) NO (-57.7%) NO 0.02_SF_Office_East NO (-47.3%) NO 0.02_SF_Meeting room NO (-28.1%) NO 0.02_SF_Meeting room (Perimeter) NO (-28.1%) NO 0.02_SF_Meeting room (Perimeter) NO (-28.1%) NO 0.02_SF_Green room (Perimeter) NO (-31.6%) NO 0.02_SF_Office_East (Perimeter) NO (-31.6%) NO 0.02_SF_Office_East (Perimeter) NO (-47.7%) NO 0.02_SF_Office_East (Perimeter) NO (-47.7%) NO 0.02_SF_Office_West (Perimeter) NO (-48.4%) NO 0.02_SF_Office_West (Perimeter) NO (-53.7%) NO 0.02_SF_Meeting room (Perimeter) NO (-53.7%) NO 0.02_SF_Office West (Perimeter) NO (-53.7%) NO 0.02_SF_Office West (Perimeter) NO (-67.8%) NO 0.02_SF_Sf_Setinguarding_West (Perimeter) NO (-67.8%) NO 0.03_SF_Safeguarding_East NO (-71.6%) NO 0.03_SF_Safeguarding_East NO (-61.9%) NO 0.03_TF_Meeting room (Perimeter) NO (-63	Zone	Solar gain limit exceeded? (%)	Internal blinds used?
0.02_SF_Office_East NO (-66.9%) NO 0.02_SF_Meeting room NO (-28.1%) NO 0.02_SF_Meeting room (Perimeter) NO (-57.5%) NO 0.02_SF_Green room (Perimeter) NO (-39.9%) NO 0.02_SF_Office_East (Perimeter) NO (-68.9%) NO 0.02_SF_Office_East (Perimeter) NO (-47.7%) NO 0.02_SF_Office_West (Perimeter) NO (-47.7%) NO 0.02_SF_Office_West (Perimeter) NO (-48.4%) NO 0.02_SF_Meeting room NO (-30.5%) NO 0.02_SF_Meeting room (Perimeter) NO (-68.9%) NO 0.02_SF_Meeting room (Perimeter) NO (-58.9%) NO 0.02_SF_Meeting room (Perimeter) NO (-58.9%) NO 0.02_SF_Meeting room (Perimeter) NO (-67.8%) NO 0.02_SF_Meeting room (Perimeter) NO (-67.8%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-67.8%) NO 0.03_SF_Safeguarding_East NO (-61.3%) NO 0.03_SF_Safeguarding_East NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-68.7%)	0.02_SF_Office_West (Perimeter)	NO (-57.7%)	NO
0.02_SF_Meeting room (Perimeter) NO (-28.1%) NO 0.02_SF_Green room (Perimeter) NO (-57.5%) NO 0.02_SF_Green room (Perimeter) NO (-39.9%) NO 0.02_SF_Office_East (Perimeter) NO (-68.9%) NO 0.02_SF_Office_East (Perimeter) NO (-73.9%) NO 0.02_SF_Office_East (Perimeter) NO (-44.7%) NO 0.02_SF_Meeting room NO (-30.5%) NO 0.02_SF_Meeting room NO (-30.5%) NO 0.02_SF_Meeting room NO (-53.7%) NO 0.02_SF_Office_West (Perimeter) NO (-53.7%) NO 0.02_SF_Office_West (Perimeter) NO (-67.8%) NO 0.02_SF_ST_Office_West (Perimeter) NO (-67.8%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-67.8%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51.9%) NO 0.03_SF_Safeguarding_Bwest (Perimeter) NO (-51.9%) NO 0.03_SF_Safeguarding_Bast NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Heeting_Form NO (-68.7%)<	0.02_SF_Office_East (Perimeter)	NO (-47.3%)	NO
0.02_SF_Meeting room (Perimeter) NO (-57.5%) NO 0.02_SF_Green room NO (-39.9%) NO 0.02_SF_Green room NO (-31.6%) NO 0.02_SF_Office_East (Perimeter) NO (-68.9%) NO 0.02_SF_Office_East (Perimeter) NO (-47.7%) NO 0.02_SF_Office_East (Perimeter) NO (-44.7%) NO 0.02_SF_Office_West (Perimeter) NO (-48.4%) NO 0.02_SF_Office_West (Perimeter) NO (-53.5%) NO 0.02_SF_Meeting room (Perimeter) NO (-53.5%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.02_SF_ST_Office_West (Perimeter) NO (-58.6%) NO 0.02_SF_Safeguarding_West NO (-57.9%) NO 0.03_SF_Safeguarding_West NO (-71.6%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-51.9%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-61.9%) NO 0.03_SF_Safeguarding_East NO (-61.9%) NO 0.03_SF_Safeguarding_East NO (-61.9%) NO <	0.02_SF_Office_East	NO (-66.9%)	NO
0.02 SF_Green room (Perimeter) NO (-31,6%) NO 0.02 SF Office East (Perimeter) NO (-68,9%) NO 0.02 SF_Office East (Perimeter) NO (-68,9%) NO 0.02 SF_Office East (Perimeter) NO (-47,7%) NO 0.02 SF_Office West (Perimeter) NO (-48,4%) NO 0.02 SF_Office West (Perimeter) NO (-48,4%) NO 0.02 SF_Meeting room NO (-53,5%) NO 0.02 SF_Office West (Perimeter) NO (-53,5%) NO 0.02 SF_Office West (Perimeter) NO (-67,3%) NO 0.02 SF_Office West (Perimeter) NO (-67,3%) NO 0.03 SF_Safeguarding_West (Perimeter) NO (-67,3%) NO 0.03 SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03 SF_Safeguarding_East (Perimeter) NO (-51%) NO 0.03 SF_Safeguarding_East (Perimeter) NO (-61,3%) NO 0.03 SF_Safeguarding_West (Perimeter) NO (-61,3%) NO 0.03 SF_Safeguarding_West (Perimeter) NO (-61,3%) NO 0.03 SF_Safeguarding_West (Perimeter) NO (-61,3%) NO 0.03 SF_	0.02_SF_Meeting room	NO (-28.1%)	NO
0.02_SF_Green room NO (-31.6%) NO 0.02_SF_Office_East (Perimeter) NO (-68.9%) NO 0.02_SF_Office_East (Perimeter) NO (-47.7%) NO 0.02_SF_Office_East (Perimeter) NO (-47.7%) NO 0.02_SF_Office_West (Perimeter) NO (-48.4%) NO 0.02_SF_Meeting room NO (-53.7%) NO 0.02_SF_Office_West NO (-53.7%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-58.6%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-59.9%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter)	0.02_SF_Meeting room (Perimeter)	NO (-57.5%)	NO
0.02_SF_Office_East (Perimeter) NO (-68.9%) NO 0.02_SF_Office_East (Perimeter) NO (-73.9%) NO 0.02_SF_Office_West (Perimeter) NO (-48.4%) NO 0.02_SF_Office_West (Perimeter) NO (-48.4%) NO 0.02_SF_Office_West (Perimeter) NO (-53.7%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.02_SF_Office_West (Perimeter) NO (-58.6%) NO 0.02_SF_Office_West (Perimeter) NO (-59.9%) NO 0.02_SF_Office_West (Perimeter) NO (-59.9%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-59.9%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-51.9%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-41.5%) NO 0.03_TF_Meeting room (Perimeter) NO (-41.5%) NO 0.03_TF_Meeting room	0.02_SF_Green room (Perimeter)	NO (-39.9%)	NO
0.02_SF_Office_East NO (-73.9%) NO 0.02_SF_Office_West (Perimeter) NO (-47.7%) NO 0.02_SF_Meeting room NO (-30.5%) NO 0.02_SF_Meeting room NO (-30.5%) NO 0.02_SF_Meeting room (Perimeter) NO (-53.7%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.02_SF_Office_West (Perimeter) NO (-58.6%) NO 0.02_SF_Office_West (Perimeter) NO (-57.8%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-59.9%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-50.1%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-51.8%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-68.7%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) <	0.02_SF_Green room	NO (-31.6%)	NO
0.02 SF_Office_East (Perimeter) NO (-47.7%) NO 0.02 SF_Meeting room NO (-48.4%) NO 0.02_SF_Meeting room NO (-30.5%) NO 0.02_SF_Meeting room (Perimeter) NO (-53.7%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.03_SF_Setinguarding_West (Perimeter) NO (-58.6%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-59.9%) NO 0.03_SF_Safeguarding_West NO (-71.6%) NO 0.03_SF_Safeguarding_East NO (-51%) NO 0.03_SF_Safeguarding_East NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room plan office (Perimeter) NO (-68.7%) NO 0.03_TF_HFRS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.8%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-62.4%)	0.02_SF_Office_East (Perimeter)	NO (-68.9%)	NO
0.02_SF_Office_West (Perimeter) NO (-30.5%) NO 0.02_SF_Meeting room NO (-30.5%) NO 0.02_SF_Meeting room (Perimeter) NO (-53.7%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.02_SF_Office_West (Perimeter) NO (-58.6%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-57.8%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-50.1%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.8%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_OPCC (2P) (Perimeter)	0.02_SF_Office_East	NO (-73.9%)	NO
0.02_SF_Meeting room NO (-30.5%) NO 0.02_SF_Meeting room (Perimeter) NO (-53.7%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.02_SF_Office_West (Perimeter) NO (-67.8%) NO 0.03_SF_Gafeguarding_West (Perimeter) NO (-59.9%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51.6%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East NO (-61.3%) NO 0.03_SF_Safeguarding_East NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-44.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.7%) NO 0.03_TF_HRS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-54.4%) NO 0.03_TF_OPCC (2P) NO (-55.5%) NO 0.03_TF_PES (3P) NO (-57.5%) NO<	0.02_SF_Office_East (Perimeter)	NO (-47.7%)	NO
0.02_SF_Meeting room (Perimeter) NO (-53.7%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.02_SF_Office_West NO (-58.6%) NO 0.02_SF_Office_West (Perimeter) NO (-67.8%) NO 0.03_SF_Safeguarding_West NO (-59.9%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East NO (-50.1%) NO 0.03_SF_Safeguarding_East NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-68.7%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-52.7%) NO 0.03_TF_DES (3P) (Perimeter) NO (-75.5%)	0.02_SF_Office_West (Perimeter)	NO (-48.4%)	NO
0.02_SF_Office_West (Perimeter) NO (-58.6%) NO 0.02_SF_Office_West (Perimeter) NO (-67.8%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-71.6%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-71.6%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-51.9%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-44.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-68.7%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-68.7%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-54.4%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-75.4%) NO 0.03_TF_PES (3P) (Perimeter) NO (-70.3%) NO 0.03_TF_PES (3P) (0.02_SF_Meeting room	NO (-30.5%)	NO
0.02_SF_Office_West (Perimeter) NO (-67.8%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-59.9%) NO 0.03_SF_Safeguarding_West NO (-71.6%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-50.1%) NO 0.03_SF_Safeguarding_East NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-68.7%) NO 0.03_TF_Meeting room (Perimeter) NO (-68.7%) NO 0.03_TF_HFRS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-75.5%) NO 0.03_TF_OPCC (2P) NO (-75.5%) NO 0.03_TF_PES (3P) NO (-70.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-70.2	0.02_SF_Meeting room (Perimeter)	NO (-53.7%)	NO
0.03_SF_Safeguarding_West (Perimeter) NO (-59.9%) NO 0.03_SF_Safeguarding_West NO (-71.6%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-61.3%) NO 0.03_SF_Safeguarding_East NO (-64.4%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room NO (-64.4%) NO 0.03_TF_Meeting room NO (-68.7%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-64.8%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-63.9%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-52.4%) NO 0.03_TF_PS (3P) (Perimeter) NO (-70.3%) NO 0.03_TF_PES (3P) (Perimeter) NO (-65.3%) NO 0.03_TF_PES (3P) (Perimeter) NO (-65.3%)	0.02_SF_Office_West	NO (-58.6%)	NO
0.03_SF_Safeguarding_West NO (-71.6%) NO 0.03_SF_Safeguarding_West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-50.1%) NO 0.03_SF_Safeguarding_East NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room NO (-39.6%) NO 0.03_TF_Meeting room NO (-68.7%) NO 0.03_TF_Sexcutive open plan office (Perimeter) NO (-68.7%) NO 0.03_TF_HRS (3P) (Perimeter) NO (-41.5%) NO 0.03_TF_Meeting room NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-75.5%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-75.5%) NO 0.03_TF_PES (3P) (Perimeter) NO (-75.5%) NO 0.03_TF_Meeting room (Perimeter) NO (-75.5%) NO 0.03_TF_Meeting room (Perimeter) NO (-73.5%)<	0.02_SF_Office_West (Perimeter)	NO (-67.8%)	NO
0.03_SF_Safeguarding. West (Perimeter) NO (-51%) NO 0.03_SF_Safeguarding_East (Perimeter) NO (-50.1%) NO 0.03_SF_Safeguarding_East NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room NO (-64.4%) NO 0.03_TF_Meeting room NO (-68.7%) NO 0.03_TF_Executive open plan office (Perimeter) NO (-68.7%) NO 0.03_TF_HRS (3P) NO (-68.7%) NO 0.03_TF_HRS (3P) NO (-62.8%) NO 0.03_TF_Meeting room NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-75.5%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-65.3%) NO 0.03_TF_PES (3P) (Perimeter) NO (-65.3%) NO 0.03_TF_PES (3P) (Perimeter) NO (-63.9%) NO 0.03_TF_PES (3P) (Perimeter) NO (-77.3%) NO	0.03_SF_Safeguarding_West (Perimeter)	NO (-59.9%)	NO
0.03_SF_Safeguarding_East NO (-50.1%) NO 0.03_SF_Safeguarding_East NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room NO (-39.6%) NO 0.03_TF_Hers (grom) NO (-68.7%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_HERS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room NO (-89.2%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-54.4%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-70.3%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-70.3%) NO 0.03_TF_DES (3P) (Perimeter) NO (-65.3%) NO 0.03_TF_ES (3P) (Perimeter) NO (-57.5%) NO 0.03_TF_Meeting room NO (-57.5%) NO 0.03_TF_Meeting room (Perimeter) NO (-78.9%) NO 0.03_TF_ES (3P) (Perimeter) NO (-78.9%) NO	0.03_SF_Safeguarding_West	NO (-71.6%)	NO
0.03_SF_Safeguarding_East NO (-61.3%) NO 0.03_TF_Meeting room (Perimeter) NO (-64.4%) NO 0.03_TF_Meeting room NO (-39.6%) NO 0.03_TF_Executive open plan office (Perimeter) NO (-68.7%) NO 0.03_TF_HFRS (3P) (Perimeter) NO (-62.8%) NO 0.03_TF_HRes (3P) NO (-62.8%) NO 0.03_TF_Meeting room NO (-89.2%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-54.4%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-70.3%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-70.3%) NO 0.03_TF_DES (3P) (Perimeter) NO (-65.3%) NO 0.03_TF_PES (3P) (Perimeter) NO (-57.5%) NO 0.03_TF_Meeting room (Perimeter) NO (-70.2%) NO 0.03_TF_Meeting room (Perimeter) NO (-70.3%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78.9%) NO<	0.03_SF_Safeguarding_West (Perimeter)	NO (-51%)	NO
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0.03_TF_Meeting room NO (-39.6%) NO 0.03_TF_Executive open plan office (Perimeter) NO (-68.7%) NO 0.03_TF_HFRS (3P) (Perimeter) NO (-41.5%) NO 0.03_TF_Meeting room NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-62.8%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-54.4%) NO 0.03_TF_OPCC (2P) NO (-75.5%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-70.3%) NO 0.03_TF_OPCC (2P) NO (-70.3%) NO 0.03_TF_PES (3P) (Perimeter) NO (-65.3%) NO 0.03_TF_PES (3P) (Perimeter) NO (-75.5%) NO 0.03_TF_Meeting room (Perimeter) NO (-70.2%) NO 0.03_TF_Meeting room (Perimeter) NO (-70.2%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78.5%) NO </td <td>0.03_SF_Safeguarding_East</td> <td>NO (-61.3%)</td> <td>NO</td>	0.03_SF_Safeguarding_East	NO (-61.3%)	NO
0.03_TF_Executive open plan office (Perimeter) NO (-68.7%) NO 0.03_TF_HFRS (3P) (Perimeter) NO (-41.5%) NO 0.03_TF_HFRS (3P) NO (-62.8%) NO 0.03_TF_Meeting room NO (-89.2%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-75.5%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-70.3%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-70.3%) NO 0.03_TF_PES (3P) (Perimeter) NO (-65.3%) NO 0.03_TF_PES (3P) (Perimeter) NO (-57.5%) NO 0.03_TF_Meeting room (Perimeter) NO (-70.2%) NO 0.03_TF_Meeting room (Perimeter) NO (-78.9%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78.9%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78.9%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78.9%) NO 0.03_TF_Executive open plan office NO (-78.3%) NO 0.03_TF_HFRS (6P) (Perimeter) NO (-38.2%)	0.03_TF_Meeting room (Perimeter)	NO (-64.4%)	NO
0.03_TF_HFRS (3P) (Perimeter) NO (-41.5%) NO 0.03_TF_HFRS (3P) NO (-62.8%) NO 0.03_TF_Meeting room NO (-89.2%) NO 0.03_TF_Meeting room (Perimeter) NO (-61.6%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-62.7%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-75.5%) NO 0.03_TF_OPCC (2P) (Perimeter) NO (-70.3%) NO 0.03_TF_DPCC (2P) NO (-70.3%) NO 0.03_TF_PSS (3P) (Perimeter) NO (-65.3%) NO 0.03_TF_PSS (3P) (Perimeter) NO (-57.5%) NO 0.03_TF_Meeting room (Perimeter) NO (-70.2%) NO 0.03_TF_Meeting room (Perimeter) NO (-70.2%) NO 0.03_TF_Meeting room (Perimeter) NO (-70.2%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78.9%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78.9%) NO 0.03_TF_Executive open plan office NO (-78.3%) NO 0.03_TF_HFRS (6P) NO (-78.3%) NO 0.03_TF_HFRS (6P) (Perimeter) NO (-86.6%) NO <t< td=""><td>0.03_TF_Meeting room</td><td>NO (-39.6%)</td><td>NO</td></t<>	0.03_TF_Meeting room	NO (-39.6%)	NO
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0.03_TF_Meeting room NO (-63.9%) NO 0.03_TF_PES (3P) (Perimeter) NO (-78%) NO 0.03_TF_PES (3P) NO (-73.5%) NO 0.03_TF_Executive open plan office NO (-78.3%) NO 0.03_TF_Executive open plan office (Perimeter) NO (-38.2%) NO 0.03_TF_HFRS (6P) NO (-28.6%) NO 0.03_TF_HFRS (6P) (Perimeter) NO (-45.5%) NO 0.03_TF_HFRS Exec NO (-54.1%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-54.2%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.4%) NO 0.03_TF_HRS Exec (Perimeter) NO (-53.8%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-51.1%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-35.5%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_PES (3P)	NO (-57.5%)	NO
0.03_TF_PES (3P) (Perimeter) NO (-78%) NO 0.03_TF_PES (3P) NO (-73.5%) NO 0.03_TF_Executive open plan office NO (-78.3%) NO 0.03_TF_Executive open plan office (Perimeter) NO (-38.2%) NO 0.03_TF_HFRS (6P) NO (-28.6%) NO 0.03_TF_HFRS (6P) (Perimeter) NO (-45.5%) NO 0.03_TF_HFRS Exec NO (-54.1%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-54.2%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.4%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.8%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-51.1%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-35.5%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_Meeting room (Perimeter)	NO (-70.2%)	NO
0.03_TF_PES (3P) NO (-73.5%) NO 0.03_TF_Executive open plan office NO (-78.3%) NO 0.03_TF_Executive open plan office (Perimeter) NO (-38.2%) NO 0.03_TF_HFRS (6P) NO (-28.6%) NO 0.03_TF_HFRS (6P) (Perimeter) NO (-45.5%) NO 0.03_TF_HFRS Exec NO (-54.1%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-54.2%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.4%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.8%) NO 0.03_TF_OPCC Exec NO (-51.1%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_Meeting room	NO (-63.9%)	NO
0.03_TF_Executive open plan office NO (-78.3%) NO 0.03_TF_Executive open plan office (Perimeter) NO (-38.2%) NO 0.03_TF_HFRS (6P) NO (-28.6%) NO 0.03_TF_HFRS (6P) (Perimeter) NO (-45.5%) NO 0.03_TF_HFRS Exec NO (-54.1%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-54.2%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.4%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.8%) NO 0.03_TF_OPCC Exec NO (-51.1%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_PES (3P) (Perimeter)	NO (-78%)	NO
0.03_TF_Executive open plan office (Perimeter) NO (-38.2%) NO 0.03_TF_HFRS (6P) NO (-28.6%) NO 0.03_TF_HFRS (6P) (Perimeter) NO (-45.5%) NO 0.03_TF_HFRS Exec NO (-54.1%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-54.2%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.4%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.8%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-51.1%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-35.5%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_PES (3P)	NO (-73.5%)	NO
0.03_TF_HFRS (6P) NO (-28.6%) NO 0.03_TF_HFRS (6P) (Perimeter) NO (-45.5%) NO 0.03_TF_HFRS Exec NO (-54.1%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-54.2%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.4%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.8%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-51.1%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_Executive open plan office	NO (-78.3%)	NO
0.03_TF_HFRS (6P) (Perimeter) NO (-45.5%) NO 0.03_TF_HFRS Exec NO (-54.1%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-54.2%) NO 0.03_TF_HFRS Exec NO (-53.4%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.8%) NO 0.03_TF_OPCC Exec NO (-51.1%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-35.5%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_Executive open plan office (Perimeter)	NO (-38.2%)	NO
0.03_TF_HFRS Exec NO (-54.1%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-54.2%) NO 0.03_TF_HFRS Exec NO (-53.4%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.8%) NO 0.03_TF_OPCC Exec NO (-51.1%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-35.5%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_HFRS (6P)	NO (-28.6%)	NO
0.03_TF_HFRS Exec (Perimeter) NO (-54.2%) NO 0.03_TF_HFRS Exec NO (-53.4%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.8%) NO 0.03_TF_OPCC Exec NO (-51.1%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-35.5%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_HFRS (6P) (Perimeter)	NO (-45.5%)	NO
0.03_TF_HFRS Exec NO (-53.4%) NO 0.03_TF_HFRS Exec (Perimeter) NO (-53.8%) NO 0.03_TF_OPCC Exec NO (-51.1%) NO 0.03_TF_OPCC Exec (Perimeter) NO (-35.5%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_HFRS Exec	NO (-54.1%)	NO
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0.03_TF_OPCC Exec (Perimeter) NO (-35.5%) NO 0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_HFRS Exec (Perimeter)	NO (-53.8%)	NO
0.03_TF_Meeting room NO (-66.5%) NO	0.03_TF_OPCC Exec	NO (-51.1%)	NO
	0.03_TF_OPCC Exec (Perimeter)	NO (-35.5%)	NO
0.03_TF_Meeting room (Perimeter) NO (-56.8%) NO	0.03_TF_Meeting room	NO (-66.5%)	NO
	0.03_TF_Meeting room (Perimeter)	NO (-56.8%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
0.03_TF_PES Exec	NO (-66.9%)	NO
0.03_TF_PES Exec (Perimeter)	NO (-56.7%)	NO
0.03_TF_PES Exec	NO (-67%)	NO
0.03_TF_PES Exec (Perimeter)	NO (-56.7%)	NO
0.03_TF_OPCC Exec	NO (-50.6%)	NO
0.03_TF_OPCC Exec (Perimeter)	NO (-35.7%)	NO
0.03_TF_OPCC Exec	NO (-51.1%)	NO
0.03_TF_OPCC Exec (Perimeter)	NO (-35.3%)	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

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Area [m²]	8617.8	8617.8
External area [m²]	11812.7	11812.7
Weather	LON	LON
Infiltration [m³/hm²@ 50Pa]	4	3
Average conductance [W/K]	5200.79	5292.36
Average U-value [W/m²K]	0.44	0.45
Alpha value* [%]	9.56	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

99 **B1 Offices and Workshop businesses**

B2 to B7 General Industrial and Special Industrial Groups

B8 Storage or Distribution

C1 Hotels

1

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	4.3	5.53
Cooling	2.92	2.27
Auxiliary	8.62	4.82
Lighting	12.81	19.1
Hot water	5.61	6.09
Equipment*	48.27	48.27
TOTAL**	34.25	37.83

^{*} 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	6.03	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0

Energy & CO, Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m ²]	91.32	81.96
Primary energy* [kWh/m²]	102.52	113.22
Total emissions [kg/m²]	14.2	19.1

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

System Type MJ/m2 MJ/m2 kWh/m2 kWh/m2 kWh/m2 SSEEF SSEER SEFF SEER SSEER SEER Extended Stell Stell 4.14 4.14 4.14 4.14 4.14 4.14 4.14 4.1	IVAC Sys	ystems Pe	formanc	е						
Actual 14	stem Type	e								Cool gen SEER
Notional 6.2 46.6 0.7 3.4 8 2.56 3.79	[ST] Constant volume system (fixed fresh air rate), [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Ele									
ST Fan coil systems, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 19.4 123.3 1.6 9.2 14.1 3.37 3.73 3.74 4.14 Notional 35.2 105 3.8 7.7 12 2.56 3.79 ST Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 18 0 1.5 0 31.6 3.37 0 3.74 0 Notional 58 0 6.3 0 20.8 2.56 0 ST Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 3.1 0 0.3 0 7.4 3.37 0 3.74 0 Notional 0 0 0 0 5.6 2.56 0 ST Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 70 0 5.8 0 2 3.37 0 3.74 0 Notional 62.6 0 6.8 0 1 2.56 0 ST Fan coil systems, [HS] Heat pump (electric): air source, [HFT] Electricity Actual 0 1542.8 0 114.9 47.7 3.37 3.73 3.73 3.74 4.14 Notional 0 1254.5 0 92 37.9 2.56 3.79	Actual	14	76.1	1.2	5.7	28.6	3.37	3.73	3.74	4.14
Actual 19.4 123.3 1.6 9.2 14.1 3.37 3.73 3.74 4.14 Notional 35.2 105 3.8 7.7 12 2.56 3.79 [ST] Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 18	Notional	6.2	46.6	0.7	3.4	8	2.56	3.79		
Notional 35.2 105 3.8 7.7 12 2.56 3.79 [ST] Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 18] Fan coil s	il systems, [H	S] Heat pun	np (electric)	: air source	e, [HFT] Ele	ctricity, [CF	T] Electrici	ty	
ST Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 18	Actual	19.4	123.3	1.6	9.2	14.1	3.37	3.73	3.74	4.14
Actual 18	Notional	35.2	105	3.8	7.7	12	2.56	3.79		
Notional 58 0 6.3 0 20.8 2.56 0 ST] Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 3.1 0 0.3 0 7.4 3.37 0 3.74 0 Notional 0 0 0 0 5.6 2.56 0] Central he	l heating using	water: rad	liators, [HS] Heat pum	o (electric):	air source,	[HFT] Elec	tricity, [CF1] Electricity
ST] Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 3.1 0 0.3 0 7.4 3.37 0 3.74 0 Notional 0 0 0 0 5.6 2.56 0 ST] Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 70 0 5.8 0 2 3.37 0 3.74 0 Notional 62.6 0 6.8 0 1 2.56 0 ST] Fan coil systems, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 0 1542.8 0 114.9 47.7 3.37 3.73 3.74 4.14 Notional 0 1254.5 0 92 37.9 2.56 3.79	Actual	18	0	1.5	0	31.6	3.37	0	3.74	0
Actual 3.1 0 0.3 0 7.4 3.37 0 3.74 0 Notional 0 0 0 5.6 2.56 0 IST] Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity, [CFT] Electricity 3.74 0 Actual 70 0 5.8 0 2 3.37 0 3.74 0 Notional 62.6 0 6.8 0 1 2.56 0 IST] Fan coil systems, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 0 1542.8 0 114.9 47.7 3.37 3.73 3.74 4.14 Notional 0 1254.5 0 92 37.9 2.56 3.79	Notional	1 58	0	6.3	0	20.8	2.56	0		
Notional 0 0 0 0 0 5.6 2.56 0 ST] Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 70 0 5.8 0 2 3.37 0 3.74 0 Notional 62.6 0 6.8 0 1 2.56 0 ST] Fan coil systems, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 0 1542.8 0 114.9 47.7 3.37 3.73 3.74 4.14 Notional 0 1254.5 0 92 37.9 2.56 3.79] Central he	l heating usinç	water: rad	liators, [HS] Heat pum _l	o (electric):	air source,	[HFT] Elec	tricity, [CFT] Electricity
ST] Central heating using water: radiators, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 70 0 5.8 0 2 3.37 0 3.74 0 Notional 62.6 0 6.8 0 1 2.56 0 ST] Fan coil systems, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 0 1542.8 0 114.9 47.7 3.37 3.73 3.74 4.14 Notional 0 1254.5 0 92 37.9 2.56 3.79	Actual	3.1	0	0.3	0	7.4	3.37	0	3.74	0
Actual 70 0 5.8 0 2 3.37 0 3.74 0 Notional 62.6 0 6.8 0 1 2.56 0 [ST] Fan coil systems, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 0 1542.8 0 114.9 47.7 3.37 3.73 3.74 4.14 Notional 0 1254.5 0 92 37.9 2.56 3.79	Notional	0	0	0	0	5.6	2.56	0		
Notional 62.6 0 6.8 0 1 2.56 0 [ST] Fan coil systems, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 0 1542.8 0 114.9 47.7 3.37 3.73 3.74 4.14 Notional 0 1254.5 0 92 37.9 2.56 3.79] Central he	l heating usinç	water: rad	liators, [HS] Heat pum _l	o (electric):	air source,	[HFT] Elec	tricity, [CFT] Electricity
[ST] Fan coil systems, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity Actual 0	Actual	70	0	5.8	0	2	3.37	0	3.74	0
Actual 0 1542.8 0 114.9 47.7 3.37 3.73 3.74 4.14 Notional 0 1254.5 0 92 37.9 2.56 3.79	Notional	62.6	0	6.8	0	1	2.56	0		
Notional 0 1254.5 0 92 37.9 2.56 3.79] Fan coil s	il systems, [H	S] Heat pun	np (electric)	: air source	e, [HFT] Ele	ctricity, [CF	T] Electrici	ty	
	Actual	0	1542.8	0	114.9	47.7	3.37	3.73	3.74	4.14
	Notional	0	1254.5	0	92	37.9	2.56	3.79		
[ST] No Heating or Cooling] No Heatin	ating or Coolin	g							
Actual 0 0 0 0 0 0 0 0 0 0	Actual	0	0	0	0	0	0	0	0	0
Notional 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

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	0.12	000000F:Surf[0]	
Floor	0.2	0.12	LG00002D:Surf[0]	
Roof	0.15	0.12	0000003D:Surf[0]	
Windows, roof windows, and rooflights	1.5	1.19	00000078:Surf[1]	
Personnel doors	1.5	2.2	00000078:Surf[12]	
Vehicle access & similar large doors	1.5	-	No Vehicle access doors in building	
High usage entrance doors	1.5	-	No High usage entrance doors in building	
U _{i-Typ} = Typical individual element U-values [W/(m²K))j		U _{i-Min} = Minimum individual element U-values [W/(m²K)]	
* There might be more than one surface where the minimum U-value occurs.				

Air Permeability	Typical value	This building	
m³/(h.m²) at 50 Pa	5	3.5	