

## Project name

**Project 2020\_Refurbished\_Be Green**

As designed

Date: Mon Mar 05 10:37:50 2018

## Administrative information

## Building Details

Address: 17 Charterhouse Street, London, EC1N 6RA

## Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.8

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.8

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

## Owner Details

Name: Name

Telephone number: Phone

Address: Street Address, City, Postcode

## Certifier details

Name: Name

Telephone number: Phone

Address: Street Address, City, Postcode

Criterion 1: The calculated CO<sub>2</sub> emission rate for the building must not exceed the target

CO <sub>2</sub> emission rate from the notional building, kgCO <sub>2</sub> /m <sup>2</sup> .annum	21.8
Target CO <sub>2</sub> emission rate (TER), kgCO <sub>2</sub> /m <sup>2</sup> .annum	21.8
Building CO <sub>2</sub> emission rate (BER), kgCO <sub>2</sub> /m <sup>2</sup> .annum	19.7
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 <sub>a</sub> -Limit	U <sub>a</sub> -Calc	U <sub>i</sub> -Calc	Surface where the maximum value occurs*
Wall**	0.35	0.23	0.35	01000001:Surf[0]
Floor	0.25	0.23	0.25	0100008D:Surf[0]
Roof	0.25	0.19	0.25	02000085:Surf[6]
Windows***, roof windows, and rooflights	2.2	1.65	2.2	01000001:Surf[1]
Personnel doors	2.2	0.37	2.2	DJ000020:Surf[5]
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
U <sub>a</sub> -Limit = Limiting area-weighted average U-values [W/(m <sup>2</sup> K)] U <sub>a</sub> -Calc = Calculated area-weighted average U-values [W/(m <sup>2</sup> K)] U <sub>i</sub> -Calc = Calculated maximum individual element U-values [W/(m <sup>2</sup> K)]				
* There might be more than one surface where the maximum U-value occurs.				
** Automatic U-value check by the tool does not apply to curtain walls whose limiting standard is similar to that for windows.				
*** Display windows and similar glazing are excluded from the U-value check.				
N.B.: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.				

Air Permeability	Worst acceptable standard	This building
m <sup>3</sup> /(h.m <sup>2</sup> ) at 50 Pa	10	5

## Building services

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

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

### 1- HVAC-1

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
<b>This system</b>	3.27	2.93	0	1.9	0.81
<b>Standard value</b>	2.5*	3.2	N/A	1.6^	N/A
<b>Automatic monitoring &amp; targeting with alarms for out-of-range values for this HVAC system</b>					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.					
^ Allowed SFP may be increased by the amounts specified in the Non-Domestic Building Services Compliance Guide if the system includes additional components as listed in the Guide.					

### 2- HVAC-12

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
<b>This system</b>	0.92	2.5	-	0	-
<b>Standard value</b>	0.91*	3.2	N/A	N/A	N/A
<b>Automatic monitoring &amp; targeting with alarms for out-of-range values for this HVAC system</b>					NO
* Standard shown is for gas single boiler systems <=2 MW output. For single boiler systems >2 MW or multi-boiler systems, (overall) limiting efficiency is 0.86. For any individual boiler in a multi-boiler system, limiting efficiency is 0.82.					

### 1- DHW-10

	Water heating efficiency	Storage loss factor [kWh/litre per day]
<b>This building</b>	0.81	-
<b>Standard value</b>	1	N/A

### 2- DHW-1

	Water heating efficiency	Storage loss factor [kWh/litre per day]
<b>This building</b>	0.81	-
<b>Standard value</b>	1	N/A

## Local mechanical ventilation, exhaust, and terminal units

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

Zone name	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	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard
1st010    Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A

Zone name	SFP [W/(I/s)]									HR efficiency	
ID of system type	A	B	C	D	E	F	G	H	I	Zone	Standard
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1		
1st011 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st012 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st013 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st014 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st017 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st020 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st021 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st022 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st023 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st024 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st025 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st027 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st029 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st030 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st031 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st032 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st033 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st034 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st035 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st036 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st038 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st039 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st040 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st041 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st042 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st043 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st044 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st045 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st046 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st048 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st050 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st051 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st052 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st053 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st054 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st055 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st056 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st057 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st058 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st059 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st060 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st061 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st062 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A

Zone name	SFP [W/(I/s)]									HR efficiency	
ID of system type	A	B	C	D	E	F	G	H	I	Zone	Standard
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1		
1st063 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st064 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st065 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st066 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st067 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st068 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
1st095 _WC	-	-	-	-	-	-	-	1	-	-	N/A
1st097 _WC	-	-	-	-	-	-	-	1	-	-	N/A
1st098 _WC	-	-	-	-	-	-	-	1	-	-	N/A
1st099 _WC	-	-	-	-	-	-	-	1	-	-	N/A
1st100 _WC	-	-	-	-	-	-	-	1	-	-	N/A
1st108 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st108 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st109 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st110 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st110 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st110 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st110 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
1st112 _WC	-	-	-	-	-	-	-	1	-	-	N/A
1st113 _WC	-	-	-	-	-	-	-	1	-	-	N/A
2nd015 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd016 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd016 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd016 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd016 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd017 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd018 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd019 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd020 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd021 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd024 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd025 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd026 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd027 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd029 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd030 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd031 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd032 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd033 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd034 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd035 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd036 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd037 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
2nd038 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A

Zone name	SFP [W/(I/s)]										HR efficiency	
ID of system type	A	B	C	D	E	F	G	H	I			
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard	
2nd040 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd041 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd042 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd043 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd044 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd045 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd046 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd047 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd048 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd049 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd050 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd051 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd052 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd053 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd054 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd055 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd056 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd057 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd058 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd059 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd060 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd061 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd064 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd066 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd068 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd073 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd074 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd075 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd076 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd077 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd080 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd081 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd082 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd083 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd084 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd085 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd086 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd087 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd089 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd090 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd091 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
2nd115 _WC	-	-	-	-	-	-	-	1	-	-	N/A	
2nd116 _WC	-	-	-	-	-	-	-	1	-	-	N/A	

Zone name	SFP [W/(I/s)]									HR efficiency	
ID of system type	A	B	C	D	E	F	G	H	I		
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard
2nd117 _WC	-	-	-	-	-	-	-	1	-	-	N/A
2nd118 _WC	-	-	-	-	-	-	-	1	-	-	N/A
2nd119 _WC	-	-	-	-	-	-	-	1	-	-	N/A
2nd121 _WC	-	-	-	-	-	-	-	1	-	-	N/A
2nd122 _WC	-	-	-	-	-	-	-	1	-	-	N/A
2nd123 _WC	-	-	-	-	-	-	-	1	-	-	N/A
3d015 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d016 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d017 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d018 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d019 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d020 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d021 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d022 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d023 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d024 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d025 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d026 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d027 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d028 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d031 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d032 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d034 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d034 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d034 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d034 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d034 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d035 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d036 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d038 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
3d039 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d042 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d044 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d045 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d047 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d048 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d049 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d050 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d051 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d052 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d053 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d054 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d055 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d056 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A

Zone name	SFP [W/(I/s)]									HR efficiency	
ID of system type	A	B	C	D	E	F	G	H	I	Zone	Standard
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1		
3d057 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d058 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d059 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d060 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d063 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d064 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d066 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d067 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d068 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d069 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d070 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d071 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d072 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d073 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d074 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d075 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d076 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d077 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d078 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d079 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d080 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d084 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d085 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d087 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d088 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d089 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d090 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
3d114 _WC	-	-	-	-	-	-	-	1	-	-	N/A
3d115 _WC	-	-	-	-	-	-	-	1	-	-	N/A
3d116 _WC	-	-	-	-	-	-	-	1	-	-	N/A
3d118 _WC	-	-	-	-	-	-	-	1	-	-	N/A
3d119 _WC	-	-	-	-	-	-	-	1	-	-	N/A
3d121 _WC	-	-	-	-	-	-	-	1	-	-	N/A
3d122 _WC	-	-	-	-	-	-	-	1	-	-	N/A
3d123 _WC	-	-	-	-	-	-	-	1	-	-	N/A
4th015 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
4th016 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
4th016 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
4th016 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
4th016 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
4th018 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
4th020 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
4th021 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A

Zone name	SFP [W/(I/s)]										HR efficiency	
ID of system type	A	B	C	D	E	F	G	H	I			
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard	
4th022 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th023 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th024 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th026 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th027 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th028 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th029 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th032 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th033 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th034 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th035 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th036 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th037 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th038 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th039 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th040 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th042 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th043 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th045 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th046 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th047 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th048 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th049 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th050 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th051 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th052 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th053 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th054 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th055 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th057 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th058 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th059 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th061 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th063 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th064 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th065 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th066 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th067 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th068 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th069 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th070 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th071 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	
4th073 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A	

Zone name	SFP [W/(I/s)]									HR efficiency	
ID of system type	A	B	C	D	E	F	G	H	I	Zone	Standard
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1		
4th074 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th075 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th076 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th080 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th081 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th082 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th085 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th086 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th087 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th088 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th089 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th090 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th091 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th092 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th093 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
4th116 _WC	-	-	-	-	-	-	-	1	-	-	N/A
4th117 _WC	-	-	-	-	-	-	-	1	-	-	N/A
4th118 _WC	-	-	-	-	-	-	-	1	-	-	N/A
4th119 _WC	-	-	-	-	-	-	-	1	-	-	N/A
4th120 _WC	-	-	-	-	-	-	-	1	-	-	N/A
4th122 _WC	-	-	-	-	-	-	-	1	-	-	N/A
4th123 _WC	-	-	-	-	-	-	-	1	-	-	N/A
4th125 _WC	-	-	-	-	-	-	-	1	-	-	N/A
5th013 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th014 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th015 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th016 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th017 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th018 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th018 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th018 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th019 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th021 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th022 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th023 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th024 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th025 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th026 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th027 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th028 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th029 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
5th031 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th032 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A

Zone name	SFP [W/(I/s)]									HR efficiency	
ID of system type	A	B	C	D	E	F	G	H	I	Zone	Standard
Standard value	0.3	1.1	0.5	1.9	1.6	0.5	1.1	0.5	1		
5th035 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th036 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th037 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th039 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th040 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th044 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th046 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th047 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th049 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th050 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th051 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th056 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th057 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th058 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th059 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th060 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th062 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
5th079 _WC	-	-	-	-	-	-	-	1	-	-	N/A
5th080 _WC	-	-	-	-	-	-	-	1	-	-	N/A
5th081 _WC	-	-	-	-	-	-	-	1	-	-	N/A
5th082 _WC	-	-	-	-	-	-	-	1	-	-	N/A
5th083 _WC	-	-	-	-	-	-	-	1	-	-	N/A
5th084 _WC	-	-	-	-	-	-	-	1	-	-	N/A
6th005 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
6th006 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
6th007 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
6th008 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
6th009 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
6th009 _Open Plan Office	-	-	-	-	-	-	-	0.2	-	-	N/A
6th011 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th012 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th013 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th014 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th016 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th018 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th019 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th020 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th023 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th024 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th025 _Open Plan Office P	-	-	-	-	-	-	-	0.2	-	-	N/A
6th027 _Kitchen	-	-	-	-	-	-	-	1.4	-	-	N/A
6th036 _WC	-	-	-	-	-	-	-	1	-	-	N/A
6th039 _WC	-	-	-	-	-	-	-	1	-	-	N/A

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	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard
6th040 _WC		-	-	-	-	-	-	-	1	-	-	N/A
GF020 _Kitchen		-	-	-	-	-	-	-	1.4	-	-	N/A
GF021 _Open Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF022 _Open Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF023 _Open Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF024 _Open Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF025 _Open Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF026 _Open Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF027 _Open Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF028 _Open Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF029 _ReceptionP		-	-	-	-	-	-	-	0.2	-	-	N/A
GF029 _Security Room		-	-	-	-	-	-	-	0.2	-	-	N/A
GF030 _Office		-	-	-	-	-	-	-	0.2	-	-	N/A
GF031 _Restaurant		-	-	-	-	-	-	-	0.2	-	-	N/A
GF032 _Restaurant		-	-	-	-	-	-	-	0.2	-	-	N/A
GF032 _Restaurant		-	-	-	-	-	-	-	0.2	-	-	N/A
GF033 _Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF034 _Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF038 _Office P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF039 _Restaurant P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF042 _Restaurant P		-	-	-	-	-	-	-	0.2	-	-	N/A
GF062 _Servery		-	-	-	-	-	-	-	1.4	-	-	N/A
GF067 _WC		-	-	-	-	-	-	-	1	-	-	N/A
GF068 _WC		-	-	-	-	-	-	-	1	-	-	N/A
GF069 _WC		-	-	-	-	-	-	-	1	-	-	N/A
GF070 _WC		-	-	-	-	-	-	-	1	-	-	N/A
LG007 _Changing Areas-shower		-	-	-	-	-	-	-	1	-	-	N/A
LG008 _Changing Areas-shower		-	-	-	-	-	-	-	1	-	-	N/A
LG009 _Changing Areas-WC		-	-	-	-	-	-	-	1	-	-	N/A
LG010 _Changing Areas-WC		-	-	-	-	-	-	-	1	-	-	N/A
LG012 _Changing Areas-shower		-	-	-	-	-	-	-	1	-	-	N/A
LG039 _Gym		-	-	-	-	-	-	-	0.2	-	-	N/A
LG040 _Gym		-	-	-	-	-	-	-	0.2	-	-	N/A
LG041 _Gym		-	-	-	-	-	-	-	0.2	-	-	N/A
LG042 _Gym		-	-	-	-	-	-	-	0.2	-	-	N/A
LG043 _Gym		-	-	-	-	-	-	-	0.2	-	-	N/A
LG044 _Gym		-	-	-	-	-	-	-	0.2	-	-	N/A
LG074 _Physio Room		-	-	-	-	-	-	-	0.2	-	-	N/A
LG081 _Security Booth		-	-	-	-	-	-	-	0.2	-	-	N/A
LG082 _Security Booth		-	-	-	-	-	-	-	0.2	-	-	N/A
LG083 _Security Room		-	-	-	-	-	-	-	0.2	-	-	N/A
LG084 _Shauffeur's Room		-	-	-	-	-	-	-	0.2	-	-	N/A
LG085 _Shower		-	-	-	-	-	-	-	1	-	-	N/A

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	1.9	1.6	0.5	1.1	0.5	1	Zone	Standard	
LG098_WC	-	-	-	-	-	-	-	1	-	-	N/A	

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
1st000 _Circulation		-	100	-	20
1st001 _Circulation		-	100	-	40
1st002 _Circulation		-	100	-	49
1st003 _Circulation		-	100	-	37
1st006 _Circulation		-	100	-	35
1st007 _Circulation		-	100	-	38
1st008 _Circulation		-	100	-	14
1st010 _Open Plan Office		100	-	-	104
1st011 _Open Plan Office		100	-	-	312
1st012 _Open Plan Office		100	-	-	57
1st013 _Open Plan Office		100	-	-	274
1st014 _Open Plan Office		100	-	-	150
1st017 _Open Plan Office		100	-	-	771
1st020 _Open Plan Office P		100	-	-	100
1st021 _Open Plan Office P		100	-	-	164
1st022 _Open Plan Office P		100	-	-	117
1st023 _Open Plan Office P		100	-	-	181
1st024 _Open Plan Office P		100	-	-	90
1st025 _Open Plan Office P		100	-	-	89
1st027 _Open Plan Office P		100	-	-	100
1st029 _Open Plan Office P		100	-	-	117
1st030 _Open Plan Office P		100	-	-	35
1st031 _Open Plan Office P		100	-	-	152
1st032 _Open Plan Office P		100	-	-	47
1st033 _Open Plan Office P		100	-	-	152
1st034 _Open Plan Office P		100	-	-	64
1st035 _Open Plan Office P		100	-	-	101
1st036 _Open Plan Office P		100	-	-	85
1st038 _Open Plan Office P		100	-	-	106
1st039 _Open Plan Office P		100	-	-	100
1st040 _Open Plan Office P		100	-	-	89
1st041 _Open Plan Office P		100	-	-	94
1st042 _Open Plan Office P		100	-	-	66
1st043 _Open Plan Office P		100	-	-	88
1st044 _Open Plan Office P		100	-	-	62
1st045 _Open Plan Office P		100	-	-	168
1st046 _Open Plan Office P		100	-	-	176
1st048 _Open Plan Office P		100	-	-	103

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
1st050 _Open Plan Office P		100	-	-	109
1st051 _Open Plan Office P		100	-	-	90
1st052 _Open Plan Office P		100	-	-	83
1st053 _Open Plan Office P		100	-	-	90
1st054 _Open Plan Office P		100	-	-	101
1st055 _Open Plan Office P		100	-	-	89
1st056 _Open Plan Office P		100	-	-	26
1st057 _Open Plan Office P		100	-	-	61
1st058 _Open Plan Office P		100	-	-	58
1st059 _Open Plan Office P		100	-	-	69
1st060 _Open Plan Office P		100	-	-	69
1st061 _Open Plan Office P		100	-	-	66
1st062 _Open Plan Office P		100	-	-	64
1st063 _Open Plan Office P		100	-	-	64
1st064 _Open Plan Office P		100	-	-	119
1st065 _Open Plan Office P		100	-	-	118
1st066 _Open Plan Office P		100	-	-	118
1st067 _Open Plan Office P		100	-	-	105
1st068 _Open Plan Office P		100	-	-	118
1st095 _WC		-	100	-	118
1st097 _WC		-	100	-	35
1st098 _WC		-	100	-	28
1st099 _WC		-	100	-	58
1st100 _WC		-	100	-	80
1st102 _Circulation		-	100	-	26
1st103 _Circulation		-	100	-	42
1st104 _Circulation		-	100	-	22
1st105 _Circulation		-	100	-	35
1st106 _Cleaners Cupboard		100	-	-	7
1st107 _Cleaners Cupboard		100	-	-	4
1st108 _Open Plan Office		100	-	-	276
1st108 _Open Plan Office		100	-	-	46
1st109 _Open Plan Office		100	-	-	204
1st110 _Open Plan Office		100	-	-	228
1st110 _Open Plan Office		100	-	-	598
1st110 _Open Plan Office		100	-	-	1184
1st112 _WC		-	100	-	158
1st113 _WC		-	100	-	30
2nd000 _Circulation		-	100	-	14
2nd001 _Circulation		-	100	-	38
2nd003 _Circulation		-	100	-	46
2nd005 _Circulation		-	100	-	34
2nd007 _Circulation		-	100	-	42

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
2nd008 _Circulation		-	100	-	26
2nd009 _Circulation		-	100	-	22
2nd010 _Circulation		-	100	-	49
2nd011 _Circulation		-	100	-	40
2nd012 _Circulation		-	100	-	20
2nd013 _Cleaners Cupboard		100	-	-	7
2nd014 _Cleaners Cupboard		100	-	-	7
2nd015 _Open Plan Office		100	-	-	185
2nd016 _Open Plan Office		100	-	-	775
2nd016 _Open Plan Office		100	-	-	191
2nd016 _Open Plan Office		100	-	-	423
2nd016 _Open Plan Office		100	-	-	219
2nd017 _Open Plan Office		100	-	-	151
2nd018 _Open Plan Office		100	-	-	106
2nd019 _Open Plan Office		100	-	-	104
2nd020 _Open Plan Office		100	-	-	150
2nd021 _Open Plan Office		100	-	-	244
2nd024 _Open Plan Office		100	-	-	69
2nd025 _Open Plan Office		100	-	-	312
2nd026 _Open Plan Office		100	-	-	771
2nd027 _Open Plan Office		100	-	-	57
2nd029 _Open Plan Office		100	-	-	109
2nd030 _Open Plan Office		100	-	-	91
2nd031 _Open Plan Office		100	-	-	274
2nd032 _Open Plan Office		100	-	-	151
2nd033 _Open Plan Office		100	-	-	152
2nd034 _Open Plan Office		100	-	-	84
2nd035 _Open Plan Office		100	-	-	91
2nd036 _Open Plan Office		100	-	-	83
2nd037 _Open Plan Office		100	-	-	39
2nd038 _Open Plan Office		100	-	-	91
2nd040 _Open Plan Office P		100	-	-	89
2nd041 _Open Plan Office P		100	-	-	88
2nd042 _Open Plan Office P		100	-	-	89
2nd043 _Open Plan Office P		100	-	-	90
2nd044 _Open Plan Office P		100	-	-	85
2nd045 _Open Plan Office P		100	-	-	101
2nd046 _Open Plan Office P		100	-	-	89
2nd047 _Open Plan Office P		100	-	-	47
2nd048 _Open Plan Office P		100	-	-	100
2nd049 _Open Plan Office P		100	-	-	35
2nd050 _Open Plan Office P		100	-	-	100
2nd051 _Open Plan Office P		100	-	-	382

General lighting and display lighting		Luminous efficacy [lm/W]			
Zone name		Luminaire	Lamp	Display lamp	General lighting [W]
	Standard value	60	60	22	
2nd052 _Open Plan Office P		100	-	-	271
2nd053 _Open Plan Office P		100	-	-	119
2nd054 _Open Plan Office P		100	-	-	119
2nd055 _Open Plan Office P		100	-	-	94
2nd056 _Open Plan Office P		100	-	-	90
2nd057 _Open Plan Office P		100	-	-	83
2nd058 _Open Plan Office P		100	-	-	181
2nd059 _Open Plan Office P		100	-	-	106
2nd060 _Open Plan Office P		100	-	-	144
2nd061 _Open Plan Office P		100	-	-	90
2nd064 _Open Plan Office P		100	-	-	152
2nd066 _Open Plan Office P		100	-	-	117
2nd068 _Open Plan Office P		100	-	-	66
2nd073 _Open Plan Office P		100	-	-	118
2nd074 _Open Plan Office P		100	-	-	118
2nd075 _Open Plan Office P		100	-	-	117
2nd076 _Open Plan Office P		100	-	-	118
2nd077 _Open Plan Office P		100	-	-	164
2nd080 _Open Plan Office P		100	-	-	152
2nd081 _Open Plan Office P		100	-	-	180
2nd082 _Open Plan Office P		100	-	-	180
2nd083 _Open Plan Office P		100	-	-	172
2nd084 _Open Plan Office P		100	-	-	142
2nd085 _Open Plan Office P		100	-	-	124
2nd086 _Open Plan Office P		100	-	-	123
2nd087 _Open Plan Office P		100	-	-	100
2nd089 _Open Plan Office P		100	-	-	122
2nd090 _Open Plan Office P		100	-	-	101
2nd091 _Open Plan Office P		100	-	-	110
2nd114 _Stair		-	100	-	51
2nd115 _WC		-	100	-	118
2nd116 _WC		-	100	-	28
2nd117 _WC		-	100	-	28
2nd118 _WC		-	100	-	58
2nd119 _WC		-	100	-	80
2nd121 _WC		-	100	-	35
2nd122 _WC		-	100	-	30
2nd123 _WC		-	100	-	158
3d000 _Circulation		-	100	-	20
3d002 _Circulation		-	100	-	49
3d003 _Circulation		-	100	-	42
3d004 _Circulation		-	100	-	38
3d007 _Circulation		-	100	-	14

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
3d008 _Circulation		-	100	-	26
3d009 _Circulation		-	100	-	40
3d010 _Circulation		-	100	-	46
3d011 _Circulation		-	100	-	22
3d012 _Circulation		-	100	-	34
3d013 _Cleaners Cupboard		100	-	-	7
3d014 _Cleaners Cupboard		100	-	-	7
3d015 _Open Plan Office		100	-	-	185
3d016 _Open Plan Office		100	-	-	150
3d017 _Open Plan Office		100	-	-	106
3d018 _Open Plan Office		100	-	-	83
3d019 _Open Plan Office		100	-	-	57
3d020 _Open Plan Office		100	-	-	69
3d021 _Open Plan Office		100	-	-	91
3d022 _Open Plan Office		100	-	-	312
3d023 _Open Plan Office		100	-	-	117
3d024 _Open Plan Office		100	-	-	84
3d025 _Open Plan Office		100	-	-	151
3d026 _Open Plan Office		100	-	-	274
3d027 _Open Plan Office		100	-	-	39
3d028 _Open Plan Office		100	-	-	104
3d031 _Open Plan Office		100	-	-	771
3d032 _Open Plan Office		100	-	-	91
3d034 _Open Plan Office		100	-	-	775
3d034 _Open Plan Office		100	-	-	418
3d034 _Open Plan Office		100	-	-	191
3d034 _Open Plan Office		100	-	-	408
3d035 _Open Plan Office		100	-	-	91
3d036 _Open Plan Office		100	-	-	151
3d038 _Open Plan Office		100	-	-	152
3d039 _Open Plan Office P		100	-	-	34
3d042 _Open Plan Office P		100	-	-	119
3d044 _Open Plan Office P		100	-	-	100
3d045 _Open Plan Office P		100	-	-	66
3d047 _Open Plan Office P		100	-	-	181
3d048 _Open Plan Office P		100	-	-	152
3d049 _Open Plan Office P		100	-	-	54
3d050 _Open Plan Office P		100	-	-	84
3d051 _Open Plan Office P		100	-	-	382
3d052 _Open Plan Office P		100	-	-	88
3d053 _Open Plan Office P		100	-	-	89
3d054 _Open Plan Office P		100	-	-	94
3d055 _Open Plan Office P		100	-	-	90

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
3d056 _Open Plan Office P		100	-	-	117
3d057 _Open Plan Office P		100	-	-	123
3d058 _Open Plan Office P		100	-	-	47
3d059 _Open Plan Office P		100	-	-	100
3d060 _Open Plan Office P		100	-	-	100
3d063 _Open Plan Office P		100	-	-	83
3d064 _Open Plan Office P		100	-	-	99
3d066 _Open Plan Office P		100	-	-	119
3d067 _Open Plan Office P		100	-	-	110
3d068 _Open Plan Office P		100	-	-	106
3d069 _Open Plan Office P		100	-	-	118
3d070 _Open Plan Office P		100	-	-	118
3d071 _Open Plan Office P		100	-	-	89
3d072 _Open Plan Office P		100	-	-	124
3d073 _Open Plan Office P		100	-	-	142
3d074 _Open Plan Office P		100	-	-	90
3d075 _Open Plan Office P		100	-	-	90
3d076 _Open Plan Office P		100	-	-	180
3d077 _Open Plan Office P		100	-	-	180
3d078 _Open Plan Office P		100	-	-	152
3d079 _Open Plan Office P		100	-	-	271
3d080 _Open Plan Office P		100	-	-	164
3d084 _Open Plan Office P		100	-	-	117
3d085 _Open Plan Office P		100	-	-	118
3d087 _Open Plan Office P		100	-	-	101
3d088 _Open Plan Office P		100	-	-	122
3d089 _Open Plan Office P		100	-	-	172
3d090 _Open Plan Office P		100	-	-	84
3d113 _Stair		-	100	-	51
3d114 _WC		-	100	-	30
3d115 _WC		-	100	-	28
3d116 _WC		-	100	-	28
3d118 _WC		-	100	-	35
3d119 _WC		-	100	-	58
3d121 _WC		-	100	-	158
3d122 _WC		-	100	-	80
3d123 _WC		-	100	-	118
4th000 _Circulation		-	100	-	38
4th001 _Circulation		-	100	-	22
4th002 _Circulation		-	100	-	20
4th003 _Circulation		-	100	-	49
4th004 _Circulation		-	100	-	14
4th007 _Circulation		-	100	-	40

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
4th008 _Circulation		-	100	-	34
4th009 _Circulation		-	100	-	46
4th010 _Circulation		-	100	-	42
4th012 _Circulation		-	100	-	26
4th013 _Cleaners Cupboard		100	-	-	7
4th014 _Cleaners Cupboard		100	-	-	7
4th015 _Open Plan Office		100	-	-	185
4th016 _Open Plan Office		100	-	-	219
4th016 _Open Plan Office		100	-	-	775
4th016 _Open Plan Office		100	-	-	191
4th016 _Open Plan Office		100	-	-	418
4th017 _Stair		-	100	-	51
4th018 _Open Plan Office		100	-	-	84
4th020 _Open Plan Office		100	-	-	106
4th021 _Open Plan Office		100	-	-	152
4th022 _Open Plan Office		100	-	-	104
4th023 _Open Plan Office		100	-	-	151
4th024 _Open Plan Office		100	-	-	91
4th026 _Open Plan Office		100	-	-	39
4th027 _Open Plan Office		100	-	-	83
4th028 _Open Plan Office		100	-	-	312
4th029 _Open Plan Office		100	-	-	174
4th032 _Open Plan Office		100	-	-	150
4th033 _Open Plan Office		100	-	-	57
4th034 _Open Plan Office		100	-	-	244
4th035 _Open Plan Office		100	-	-	69
4th036 _Open Plan Office		100	-	-	151
4th037 _Open Plan Office		100	-	-	91
4th038 _Open Plan Office		100	-	-	91
4th039 _Open Plan Office		100	-	-	771
4th040 _Open Plan Office		100	-	-	109
4th042 _Open Plan Office P		100	-	-	88
4th043 _Open Plan Office P		100	-	-	118
4th045 _Open Plan Office P		100	-	-	382
4th046 _Open Plan Office P		100	-	-	122
4th047 _Open Plan Office P		100	-	-	89
4th048 _Open Plan Office P		100	-	-	123
4th049 _Open Plan Office P		100	-	-	180
4th050 _Open Plan Office P		100	-	-	180
4th051 _Open Plan Office P		100	-	-	172
4th052 _Open Plan Office P		100	-	-	271
4th053 _Open Plan Office P		100	-	-	119
4th054 _Open Plan Office P		100	-	-	144

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
4th055 _Open Plan Office P		100	-	-	119
4th057 _Open Plan Office P		100	-	-	118
4th058 _Open Plan Office P		100	-	-	35
4th059 _Open Plan Office P		100	-	-	164
4th061 _Open Plan Office P		100	-	-	142
4th063 _Open Plan Office P		100	-	-	152
4th064 _Open Plan Office P		100	-	-	106
4th065 _Open Plan Office P		100	-	-	181
4th066 _Open Plan Office P		100	-	-	94
4th067 _Open Plan Office P		100	-	-	90
4th068 _Open Plan Office P		100	-	-	89
4th069 _Open Plan Office P		100	-	-	79
4th070 _Open Plan Office P		100	-	-	69
4th071 _Open Plan Office P		100	-	-	26
4th073 _Open Plan Office P		100	-	-	118
4th074 _Open Plan Office P		100	-	-	101
4th075 _Open Plan Office P		100	-	-	90
4th076 _Open Plan Office P		100	-	-	110
4th080 _Open Plan Office P		100	-	-	101
4th081 _Open Plan Office P		100	-	-	117
4th082 _Open Plan Office P		100	-	-	47
4th085 _Open Plan Office P		100	-	-	100
4th086 _Open Plan Office P		100	-	-	124
4th087 _Open Plan Office P		100	-	-	83
4th088 _Open Plan Office P		100	-	-	117
4th089 _Open Plan Office P		100	-	-	66
4th090 _Open Plan Office P		100	-	-	90
4th091 _Open Plan Office P		100	-	-	152
4th092 _Open Plan Office P		100	-	-	100
4th093 _Open Plan Office P		100	-	-	100
4th116 _WC		-	100	-	158
4th117 _WC		-	100	-	30
4th118 _WC		-	100	-	58
4th119 _WC		-	100	-	35
4th120 _WC		-	100	-	80
4th122 _WC		-	100	-	28
4th123 _WC		-	100	-	28
4th125 _WC		-	100	-	118
5th000 _Circulation		-	100	-	26
5th001 _Circulation		-	100	-	22
5th002 _Circulation		-	100	-	14
5th004 _Circulation		-	100	-	34
5th005 _Circulation		-	100	-	43

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
5th006 _Circulation		-	100	-	171
5th007 _Circulation		-	100	-	38
5th008 _Circulation		-	100	-	42
5th009 _Circulation		-	100	-	46
5th011 _Cleaners Cupboard		100	-	-	7
5th012 _Cleaners Cupboard		100	-	-	7
5th013 _Open Plan Office		100	-	-	39
5th014 _Open Plan Office		100	-	-	648
5th015 _Open Plan Office		100	-	-	84
5th016 _Open Plan Office		100	-	-	91
5th017 _Open Plan Office		100	-	-	83
5th018 _Open Plan Office		100	-	-	372
5th018 _Open Plan Office		100	-	-	427
5th018 _Open Plan Office		100	-	-	47
5th019 _Open Plan Office		100	-	-	244
5th021 _Open Plan Office		100	-	-	155
5th022 _Open Plan Office		100	-	-	91
5th023 _Open Plan Office		100	-	-	106
5th024 _Open Plan Office		100	-	-	151
5th025 _Open Plan Office		100	-	-	152
5th026 _Open Plan Office		100	-	-	69
5th027 _Open Plan Office		100	-	-	109
5th028 _Open Plan Office		100	-	-	91
5th029 _Open Plan Office		100	-	-	185
5th031 _Open Plan Office P		100	-	-	271
5th032 _Open Plan Office P		100	-	-	118
5th035 _Open Plan Office P		100	-	-	8
5th036 _Open Plan Office P		100	-	-	119
5th037 _Open Plan Office P		100	-	-	382
5th039 _Open Plan Office P		100	-	-	172
5th040 _Open Plan Office P		100	-	-	180
5th044 _Open Plan Office P		100	-	-	46
5th046 _Open Plan Office P		100	-	-	119
5th047 _Open Plan Office P		100	-	-	164
5th049 _Open Plan Office P		100	-	-	142
5th050 _Open Plan Office P		100	-	-	124
5th051 _Open Plan Office P		100	-	-	180
5th056 _Open Plan Office P		100	-	-	122
5th057 _Open Plan Office P		100	-	-	118
5th058 _Open Plan Office P		100	-	-	118
5th059 _Open Plan Office P		100	-	-	117
5th060 _Open Plan Office P		100	-	-	123
5th062 _Open Plan Office P		100	-	-	147

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
5th078 _Stair		-	100	-	53
5th079 _WC		-	100	-	158
5th080 _WC		-	100	-	28
5th081 _WC		-	100	-	58
5th082 _WC		-	100	-	28
5th083 _WC		-	100	-	35
5th084 _WC		-	100	-	30
6th000 _Circulation		-	100	-	25
6th001 _Circulation		-	100	-	42
6th002 _Circulation		-	100	-	53
6th003 _Circulation		-	100	-	32
6th005 _Open Plan Office		100	-	-	151
6th006 _Open Plan Office		100	-	-	152
6th007 _Open Plan Office		100	-	-	151
6th008 _Open Plan Office		100	-	-	187
6th009 _Open Plan Office		100	-	-	557
6th009 _Open Plan Office		100	-	-	428
6th011 _Open Plan Office P		100	-	-	154
6th012 _Open Plan Office P		100	-	-	107
6th013 _Open Plan Office P		100	-	-	168
6th014 _Open Plan Office P		100	-	-	131
6th016 _Open Plan Office P		100	-	-	147
6th018 _Open Plan Office P		100	-	-	140
6th019 _Open Plan Office P		100	-	-	107
6th020 _Open Plan Office P		100	-	-	19
6th023 _Open Plan Office P		100	-	-	123
6th024 _Open Plan Office P		100	-	-	154
6th025 _Open Plan Office P		100	-	-	140
6th027 _Kitchen		-	100	-	210
6th036 _WC		-	100	-	28
6th039 _WC		-	100	-	40
6th040 _WC		-	100	-	82
6th041 _Circulation		-	100	-	41
B000 _Circulation		-	100	-	30
B001 _Circulation		-	100	-	16
B002 _Circulation		-	100	-	64
B003 _Circulation		-	100	-	32
B004 _Circulation		-	100	-	98
B005 _Circulation		-	100	-	40
B006 _Circulation		-	100	-	63
B007 _FF Lobby		-	100	-	33
B008 _HV Meter Room		100	-	-	84
B009 _Landlord HV Switch Room		100	-	-	82

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
B018 _Plant Area		100	-	-	164
B019 _Plant Area		100	-	-	215
B020 _Plant Area		100	-	-	257
B021 _Plant Area		100	-	-	110
B022 _Plant Area		100	-	-	1158
B023 _Plant Area		100	-	-	76
B024 _Plant Area		100	-	-	54
B025 _Plant Area		100	-	-	164
B026 _Sprinkler Room		100	-	-	124
B027 _Sprinkler Room		100	-	-	409
GF000 _Circulation		-	100	-	14
GF001 _Circulation		-	100	-	35
GF002 _Circulation		-	100	-	23
GF003 _Circulation		-	100	-	35
GF004 _Circulation		-	100	-	76
GF005 _Circulation		-	100	-	18
GF006 _Circulation		-	100	-	27
GF007 _Circulation		-	100	-	29
GF008 _Circulation		-	100	-	34
GF011 _Circulation		-	100	-	49
GF012 _Circulation		-	100	-	21
GF014 _Circulation		-	100	-	38
GF015 _Circulation		-	100	-	35
GF017 _Circulation		-	100	-	13
GF020 _Kitchen		-	100	-	1131
GF021 _Open Office P		100	-	-	134
GF022 _Open Office P		100	-	-	290
GF023 _Open Office P		100	-	-	232
GF024 _Open Office P		100	-	-	137
GF025 _Open Office P		100	-	-	231
GF026 _Open Office P		100	-	-	342
GF027 _Open Office P		100	-	-	341
GF028 _Open Office P		100	-	-	340
GF029 _ReceptionP		-	100	22	263
GF029 _Security Room		100	-	-	632
GF030 _Office		100	-	-	790
GF031 _Restaurant		-	100	-	117
GF032 _Restaurant		-	100	-	90
GF032 _Restaurant		-	100	-	687
GF033 _Office P		100	-	-	157
GF034 _Office P		100	-	-	157
GF038 _Office P		100	-	-	150
GF039 _Restaurant P		-	100	-	64

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
GF042 _Restaurant P		-	100	-	12
GF062 _Servery		-	100	-	499
GF063 _Stair		-	100	-	29
GF067 _WC		-	100	-	58
GF068 _WC		-	100	-	164
GF069 _WC		-	100	-	30
GF070 _WC		-	100	-	107
LG000 _Carpark		-	100	-	869
LG001 _Catering Store 4		100	-	-	13
LG002 _Catering Store 2		100	-	-	24
LG003 _Catering Store 1		100	-	-	9
LG004 _Catering Store 3		100	-	-	20
LG005 _Changing Areas-circulation		-	100	-	66
LG006 _Changing Areas-circulation		-	100	-	49
LG007 _Changing Areas-shower		-	100	-	15
LG008 _Changing Areas-shower		-	100	-	15
LG009 _Changing Areas-WC		-	100	-	30
LG010 _Changing Areas-WC		-	100	-	31
LG011 _Changing Areas-circulation		-	100	-	115
LG012 _Changing Areas-shower		-	100	-	43
LG013 _Circulation		-	100	-	33
LG014 _Circulation		-	100	-	36
LG015 _Circulation		-	100	-	32
LG016 _Circulation		-	100	-	37
LG017 _Circulation		-	100	-	43
LG018 _Circulation		-	100	-	29
LG019 _Circulation		-	100	-	26
LG020 _Circulation		-	100	-	37
LG021 _Circulation		-	100	-	37
LG022 _Circulation		-	100	-	33
LG023 _Circulation		-	100	-	12
LG024 _Circulation		-	100	-	32
LG025 _Circulation		-	100	-	35
LG026 _Circulation		-	100	-	37
LG027 _Circulation		-	100	-	33
LG028 _Circulation		-	100	-	56
LG029 _Circulation		-	100	-	7
LG030 _Circulation		-	100	-	66
LG031 _Circulation		-	100	-	28
LG032 _Cleaners Cupboard		100	-	-	5
LG033 _Corridor		-	100	-	47
LG034 _Delivery Area		100	-	-	42
LG035 _Elec. Switch Room		100	-	-	153

General lighting and display lighting		Luminous efficacy [lm/W]			General lighting [W]
Zone name		Luminaire	Lamp	Display lamp	
	Standard value	60	60	22	
LG036_Entrance Lobby		-	100	-	56
LG037_General Store		100	-	-	21
LG038_Goods Lift Lobby		-	100	-	32
LG039_Gym		-	100	-	82
LG040_Gym		-	100	-	50
LG041_Gym		-	100	-	87
LG042_Gym		-	100	-	51
LG043_Gym		-	100	-	74
LG044_Gym		-	100	-	68
LG045_Gym Entrance		-	100	-	16
LG046_Gym Lobby		-	100	-	20
LG047 IT Hub		100	-	-	67
LG071_Lobby		-	100	-	10
LG072_Lobby		-	100	-	38
LG073_Lobby		-	100	-	10
LG074_Physio Room		100	-	-	89
LG075_Plant Area		100	-	-	106
LG076_Plant Area		100	-	-	529
LG077_Plant Room		100	-	-	345
LG078_Post Room		100	-	-	46
LG079_Saffron Hill Reception		-	100	-	56
LG080_Secure Vehicle Bay		-	100	-	97
LG081_Security Booth		100	-	-	126
LG082_Security_Booth		100	-	-	138
LG083_Security Room		100	-	-	76
LG084_Shauffeur's Room		100	-	-	203
LG085_Shower		-	100	-	4
LG086_Stationery Room		100	-	-	62
LG087_Store		100	-	-	23
LG088_Store		100	-	-	12
LG089_Store		100	-	-	9
LG090_Store		100	-	-	37
LG091_Store		100	-	-	63
LG092_Store		100	-	-	9
LG093_Sub Station		100	-	-	95
LG094_Switch Room Lobby		-	100	-	20
LG095_UKPN Sub Station		100	-	-	148
LG096_UKPN Switch Room		100	-	-	78
LG098_WC		-	100	-	30
LG099_WC Lobby		-	100	-	19
LG100_Wine Room		100	-	-	23

### 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?
1st000 _Circulation	N/A	N/A
1st001 _Circulation	NO (-45.4%)	NO
1st002 _Circulation	N/A	N/A
1st003 _Circulation	N/A	N/A
1st006 _Circulation	N/A	N/A
1st007 _Circulation	NO (-91.3%)	NO
1st008 _Circulation	N/A	N/A
1st010 _Open Plan Office	NO (-31.9%)	NO
1st011 _Open Plan Office	NO (-57.1%)	NO
1st012 _Open Plan Office	NO (-86.7%)	NO
1st013 _Open Plan Office	NO (-66.8%)	NO
1st014 _Open Plan Office	NO (-95.5%)	NO
1st017 _Open Plan Office	YES (+83.6%)	NO
1st020 _Open Plan Office P	NO (-18.9%)	NO
1st021 _Open Plan Office P	NO (-58.9%)	NO
1st022 _Open Plan Office P	NO (-64.3%)	NO
1st023 _Open Plan Office P	NO (-48%)	NO
1st024 _Open Plan Office P	NO (-25.6%)	NO
1st025 _Open Plan Office P	NO (-23.5%)	NO
1st027 _Open Plan Office P	NO (-59%)	NO
1st029 _Open Plan Office P	NO (-78.5%)	NO
1st030 _Open Plan Office P	NO (-98.9%)	NO
1st031 _Open Plan Office P	NO (-92.7%)	NO
1st032 _Open Plan Office P	NO (-98.4%)	NO
1st033 _Open Plan Office P	NO (-64.6%)	NO
1st034 _Open Plan Office P	NO (-97.8%)	NO
1st035 _Open Plan Office P	YES (+8.6%)	NO
1st036 _Open Plan Office P	NO (-27.9%)	NO
1st038 _Open Plan Office P	NO (-22.4%)	NO
1st039 _Open Plan Office P	YES (+14.2%)	NO
1st040 _Open Plan Office P	NO (-22.3%)	NO
1st041 _Open Plan Office P	NO (-20.8%)	NO
1st042 _Open Plan Office P	NO (-98.2%)	NO
1st043 _Open Plan Office P	NO (-23.1%)	NO
1st044 _Open Plan Office P	NO (-75.6%)	NO
1st045 _Open Plan Office P	NO (-77.2%)	NO
1st046 _Open Plan Office P	NO (-69.1%)	NO
1st048 _Open Plan Office P	NO (-79.8%)	NO
1st050 _Open Plan Office P	NO (-3.7%)	NO
1st051 _Open Plan Office P	NO (-22.4%)	NO
1st052 _Open Plan Office P	NO (-9%)	NO
1st053 _Open Plan Office P	NO (-24.2%)	NO
1st054 _Open Plan Office P	NO (-34.6%)	NO
1st055 _Open Plan Office P	NO (-51.1%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
1st056 _Open Plan Office P	NO (-98.9%)	NO
1st057 _Open Plan Office P	NO (-98.6%)	NO
1st058 _Open Plan Office P	NO (-98.4%)	NO
1st059 _Open Plan Office P	NO (-98.3%)	NO
1st060 _Open Plan Office P	NO (-98.3%)	NO
1st061 _Open Plan Office P	NO (-92.6%)	NO
1st062 _Open Plan Office P	NO (-98.2%)	NO
1st063 _Open Plan Office P	NO (-98.1%)	NO
1st064 _Open Plan Office P	NO (-66.7%)	NO
1st065 _Open Plan Office P	NO (-65.7%)	NO
1st066 _Open Plan Office P	NO (-57.9%)	NO
1st067 _Open Plan Office P	NO (-75.6%)	NO
1st068 _Open Plan Office P	NO (-65.2%)	NO
1st095 _WC	N/A	N/A
1st097 _WC	N/A	N/A
1st098 _WC	N/A	N/A
1st099 _WC	N/A	N/A
1st100 _WC	N/A	N/A
1st102 _Circulation	N/A	N/A
1st103 _Circulation	NO (-39.7%)	NO
1st104 _Circulation	NO (-81.1%)	NO
1st105 _Circulation	N/A	N/A
1st106 _Cleaners Cupboard	N/A	N/A
1st107 _Cleaners Cupboard	N/A	N/A
1st108 _Open Plan Office	NO (-96.8%)	NO
1st108 _Open Plan Office	NO (-88.1%)	NO
1st109 _Open Plan Office	NO (-91.8%)	NO
1st110 _Open Plan Office	NO (-99.6%)	NO
1st110 _Open Plan Office	NO (-97.8%)	NO
1st110 _Open Plan Office	NO (-93.8%)	NO
1st112 _WC	N/A	N/A
1st113 _WC	N/A	N/A
2nd000 _Circulation	N/A	N/A
2nd001 _Circulation	NO (-91.1%)	NO
2nd003 _Circulation	N/A	N/A
2nd005 _Circulation	N/A	N/A
2nd007 _Circulation	NO (-39.7%)	NO
2nd008 _Circulation	N/A	N/A
2nd009 _Circulation	NO (-81.1%)	NO
2nd010 _Circulation	N/A	N/A
2nd011 _Circulation	NO (-45.2%)	NO
2nd012 _Circulation	N/A	N/A
2nd013 _Cleaners Cupboard	N/A	N/A
2nd014 _Cleaners Cupboard	N/A	N/A
2nd015 _Open Plan Office	NO (-50.7%)	NO
2nd016 _Open Plan Office	NO (-92%)	NO
2nd016 _Open Plan Office	NO (-91.5%)	NO
2nd016 _Open Plan Office	NO (-96.7%)	NO
2nd016 _Open Plan Office	NO (-96.3%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
2nd017 _Open Plan Office	NO (-76.5%)	NO
2nd018 _Open Plan Office	NO (-97.5%)	NO
2nd019 _Open Plan Office	NO (-29.8%)	NO
2nd020 _Open Plan Office	NO (-95.6%)	NO
2nd021 _Open Plan Office	NO (-89%)	NO
2nd024 _Open Plan Office	NO (-97.1%)	NO
2nd025 _Open Plan Office	NO (-54.7%)	NO
2nd026 _Open Plan Office	YES (+96.7%)	NO
2nd027 _Open Plan Office	NO (-86.9%)	NO
2nd029 _Open Plan Office	NO (-69.7%)	NO
2nd030 _Open Plan Office	NO (-97%)	NO
2nd031 _Open Plan Office	NO (-66.4%)	NO
2nd032 _Open Plan Office	NO (-74.5%)	NO
2nd033 _Open Plan Office	NO (-71.6%)	NO
2nd034 _Open Plan Office	NO (-97%)	NO
2nd035 _Open Plan Office	NO (-96.8%)	NO
2nd036 _Open Plan Office	NO (-96.9%)	NO
2nd037 _Open Plan Office	NO (-85.6%)	NO
2nd038 _Open Plan Office	NO (-96.9%)	NO
2nd040 _Open Plan Office P	NO (-21.9%)	NO
2nd041 _Open Plan Office P	NO (-22.7%)	NO
2nd042 _Open Plan Office P	NO (-23.1%)	NO
2nd043 _Open Plan Office P	NO (-25.3%)	NO
2nd044 _Open Plan Office P	NO (-27.7%)	NO
2nd045 _Open Plan Office P	NO (-34.5%)	NO
2nd046 _Open Plan Office P	NO (-51%)	NO
2nd047 _Open Plan Office P	NO (-98.1%)	NO
2nd048 _Open Plan Office P	NO (-10.3%)	NO
2nd049 _Open Plan Office P	NO (-96.3%)	NO
2nd050 _Open Plan Office P	NO (-59.4%)	NO
2nd051 _Open Plan Office P	NO (-33.7%)	NO
2nd052 _Open Plan Office P	NO (-61%)	NO
2nd053 _Open Plan Office P	NO (-34.2%)	NO
2nd054 _Open Plan Office P	NO (-36.8%)	NO
2nd055 _Open Plan Office P	NO (-20.3%)	NO
2nd056 _Open Plan Office P	NO (-23.7%)	NO
2nd057 _Open Plan Office P	NO (-8.4%)	NO
2nd058 _Open Plan Office P	NO (-47.2%)	NO
2nd059 _Open Plan Office P	NO (-17.7%)	NO
2nd060 _Open Plan Office P	NO (-92.9%)	NO
2nd061 _Open Plan Office P	NO (-22%)	NO
2nd064 _Open Plan Office P	NO (-92.9%)	NO
2nd066 _Open Plan Office P	NO (-78.5%)	NO
2nd068 _Open Plan Office P	NO (-92.7%)	NO
2nd073 _Open Plan Office P	NO (-63.2%)	NO
2nd074 _Open Plan Office P	NO (-56.2%)	NO
2nd075 _Open Plan Office P	NO (-63.4%)	NO
2nd076 _Open Plan Office P	NO (-63.7%)	NO
2nd077 _Open Plan Office P	NO (-58.5%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
2nd080 _Open Plan Office P	NO (-65.2%)	NO
2nd081 _Open Plan Office P	NO (-38.9%)	NO
2nd082 _Open Plan Office P	NO (-38.2%)	NO
2nd083 _Open Plan Office P	NO (-38.3%)	NO
2nd084 _Open Plan Office P	NO (-48.3%)	NO
2nd085 _Open Plan Office P	NO (-19.7%)	NO
2nd086 _Open Plan Office P	NO (-30.5%)	NO
2nd087 _Open Plan Office P	YES (+25.7%)	NO
2nd089 _Open Plan Office P	NO (-25.8%)	NO
2nd090 _Open Plan Office P	YES (+22.9%)	NO
2nd091 _Open Plan Office P	YES (+5.2%)	NO
2nd114 _Stair	NO (-90.6%)	NO
2nd115 _WC	N/A	N/A
2nd116 _WC	N/A	N/A
2nd117 _WC	N/A	N/A
2nd118 _WC	N/A	N/A
2nd119 _WC	N/A	N/A
2nd121 _WC	N/A	N/A
2nd122 _WC	N/A	N/A
2nd123 _WC	N/A	N/A
3d000 _Circulation	N/A	N/A
3d002 _Circulation	N/A	N/A
3d003 _Circulation	NO (-39.7%)	NO
3d004 _Circulation	NO (-91%)	NO
3d007 _Circulation	N/A	N/A
3d008 _Circulation	N/A	N/A
3d009 _Circulation	NO (-55.6%)	NO
3d010 _Circulation	N/A	N/A
3d011 _Circulation	NO (-81.1%)	NO
3d012 _Circulation	N/A	N/A
3d013 _Cleaners Cupboard	N/A	N/A
3d014 _Cleaners Cupboard	N/A	N/A
3d015 _Open Plan Office	NO (-49.7%)	NO
3d016 _Open Plan Office	NO (-94.4%)	NO
3d017 _Open Plan Office	NO (-97.5%)	NO
3d018 _Open Plan Office	NO (-96.8%)	NO
3d019 _Open Plan Office	NO (-83.7%)	NO
3d020 _Open Plan Office	NO (-97%)	NO
3d021 _Open Plan Office	NO (-96.9%)	NO
3d022 _Open Plan Office	NO (-50.4%)	NO
3d023 _Open Plan Office	NO (-58.2%)	NO
3d024 _Open Plan Office	NO (-96.9%)	NO
3d025 _Open Plan Office	NO (-75.5%)	NO
3d026 _Open Plan Office	NO (-58.5%)	NO
3d027 _Open Plan Office	NO (-85.2%)	NO
3d028 _Open Plan Office	NO (-23.6%)	NO
3d031 _Open Plan Office	YES (+117.5%)	NO
3d032 _Open Plan Office	NO (-96.6%)	NO
3d034 _Open Plan Office	NO (-91.8%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
3d034 _Open Plan Office	NO (-96.9%)	NO
3d034 _Open Plan Office	NO (-91%)	NO
3d034 _Open Plan Office	NO (-92.7%)	NO
3d035 _Open Plan Office	NO (-96.9%)	NO
3d036 _Open Plan Office	NO (-73.5%)	NO
3d038 _Open Plan Office	NO (-70%)	NO
3d039 _Open Plan Office P	NO (-98%)	NO
3d042 _Open Plan Office P	NO (-32.8%)	NO
3d044 _Open Plan Office P	NO (-55.5%)	NO
3d045 _Open Plan Office P	NO (-90.7%)	NO
3d047 _Open Plan Office P	NO (-51.1%)	NO
3d048 _Open Plan Office P	NO (-92%)	NO
3d049 _Open Plan Office P	NO (-44.7%)	NO
3d050 _Open Plan Office P	NO (-24.6%)	NO
3d051 _Open Plan Office P	NO (-29%)	NO
3d052 _Open Plan Office P	NO (-21.7%)	NO
3d053 _Open Plan Office P	NO (-20.4%)	NO
3d054 _Open Plan Office P	NO (-18.8%)	NO
3d055 _Open Plan Office P	NO (-20.1%)	NO
3d056 _Open Plan Office P	NO (-60.9%)	NO
3d057 _Open Plan Office P	NO (-26.8%)	NO
3d058 _Open Plan Office P	NO (-97.4%)	NO
3d059 _Open Plan Office P	YES (+40.1%)	NO
3d060 _Open Plan Office P	NO (-1.9%)	NO
3d063 _Open Plan Office P	NO (-4.8%)	NO
3d064 _Open Plan Office P	NO (-91.3%)	NO
3d066 _Open Plan Office P	NO (-30.2%)	NO
3d067 _Open Plan Office P	YES (+14.8%)	NO
3d068 _Open Plan Office P	NO (-11.2%)	NO
3d069 _Open Plan Office P	NO (-54.6%)	NO
3d070 _Open Plan Office P	NO (-61.5%)	NO
3d071 _Open Plan Office P	NO (-22.1%)	NO
3d072 _Open Plan Office P	NO (-16.9%)	NO
3d073 _Open Plan Office P	NO (-47.5%)	NO
3d074 _Open Plan Office P	NO (-19.8%)	NO
3d075 _Open Plan Office P	NO (-23.9%)	NO
3d076 _Open Plan Office P	NO (-34.9%)	NO
3d077 _Open Plan Office P	NO (-34.2%)	NO
3d078 _Open Plan Office P	NO (-61.3%)	NO
3d079 _Open Plan Office P	NO (-58.4%)	NO
3d080 _Open Plan Office P	NO (-56.5%)	NO
3d084 _Open Plan Office P	NO (-76.4%)	NO
3d085 _Open Plan Office P	NO (-61.6%)	NO
3d087 _Open Plan Office P	YES (+37%)	NO
3d088 _Open Plan Office P	NO (-22.7%)	NO
3d089 _Open Plan Office P	NO (-33.6%)	NO
3d090 _Open Plan Office P	NO (-33.6%)	NO
3d113 _Stair	NO (-90.2%)	NO
3d114 _WC	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
3d115 _WC	N/A	N/A
3d116 _WC	N/A	N/A
3d118 _WC	N/A	N/A
3d119 _WC	N/A	N/A
3d121 _WC	N/A	N/A
3d122 _WC	N/A	N/A
3d123 _WC	N/A	N/A
4th000 _Circulation	N/A	N/A
4th001 _Circulation	NO (-81.1%)	NO
4th002 _Circulation	N/A	N/A
4th003 _Circulation	N/A	N/A
4th004 _Circulation	N/A	N/A
4th007 _Circulation	NO (-90.9%)	NO
4th008 _Circulation	N/A	N/A
4th009 _Circulation	N/A	N/A
4th010 _Circulation	NO (-39.7%)	NO
4th012 _Circulation	N/A	N/A
4th013 _Cleaners Cupboard	N/A	N/A
4th014 _Cleaners Cupboard	N/A	N/A
4th015 _Open Plan Office	NO (-50.4%)	NO
4th016 _Open Plan Office	NO (-95.8%)	NO
4th016 _Open Plan Office	NO (-91.9%)	NO
4th016 _Open Plan Office	NO (-90.4%)	NO
4th016 _Open Plan Office	NO (-96.7%)	NO
4th017 _Stair	NO (-90.1%)	NO
4th018 _Open Plan Office	NO (-96.9%)	NO
4th020 _Open Plan Office	NO (-97.4%)	NO
4th021 _Open Plan Office	NO (-68.3%)	NO
4th022 _Open Plan Office	NO (-17.2%)	NO
4th023 _Open Plan Office	NO (-74.8%)	NO
4th024 _Open Plan Office	NO (-96.9%)	NO
4th026 _Open Plan Office	NO (-85.2%)	NO
4th027 _Open Plan Office	NO (-96.8%)	NO
4th028 _Open Plan Office	NO (-46%)	NO
4th029 _Open Plan Office	NO (-52%)	NO
4th032 _Open Plan Office	NO (-93.5%)	NO
4th033 _Open Plan Office	NO (-80.6%)	NO
4th034 _Open Plan Office	NO (-87.7%)	NO
4th035 _Open Plan Office	NO (-97%)	NO
4th036 _Open Plan Office	NO (-73.7%)	NO
4th037 _Open Plan Office	NO (-96.9%)	NO
4th038 _Open Plan Office	NO (-96.6%)	NO
4th039 _Open Plan Office	YES (+133.2%)	NO
4th040 _Open Plan Office	NO (-66.8%)	NO
4th042 _Open Plan Office P	NO (-18.1%)	NO
4th043 _Open Plan Office P	NO (-58.6%)	NO
4th045 _Open Plan Office P	NO (-27.3%)	NO
4th046 _Open Plan Office P	NO (-22.3%)	NO
4th047 _Open Plan Office P	NO (-16.8%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
4th048 _Open Plan Office P	NO (-24.8%)	NO
4th049 _Open Plan Office P	NO (-30.7%)	NO
4th050 _Open Plan Office P	NO (-30%)	NO
4th051 _Open Plan Office P	NO (-33.3%)	NO
4th052 _Open Plan Office P	NO (-56.9%)	NO
4th053 _Open Plan Office P	NO (-28.2%)	NO
4th054 _Open Plan Office P	NO (-92%)	NO
4th055 _Open Plan Office P	NO (-27.3%)	NO
4th057 _Open Plan Office P	NO (-52.3%)	NO
4th058 _Open Plan Office P	NO (-96.3%)	NO
4th059 _Open Plan Office P	NO (-54.9%)	NO
4th061 _Open Plan Office P	NO (-47.7%)	NO
4th063 _Open Plan Office P	NO (-92.5%)	NO
4th064 _Open Plan Office P	NO (-14%)	NO
4th065 _Open Plan Office P	NO (-59.9%)	NO
4th066 _Open Plan Office P	NO (-14.3%)	NO
4th067 _Open Plan Office P	NO (-19.3%)	NO
4th068 _Open Plan Office P	NO (-18.2%)	NO
4th069 _Open Plan Office P	NO (-21.8%)	NO
4th070 _Open Plan Office P	NO (-32.5%)	NO
4th071 _Open Plan Office P	NO (-53.3%)	NO
4th073 _Open Plan Office P	NO (-60.1%)	NO
4th074 _Open Plan Office P	YES (+45.7%)	NO
4th075 _Open Plan Office P	NO (-14.9%)	NO
4th076 _Open Plan Office P	YES (+22.2%)	NO
4th080 _Open Plan Office P	YES (+21.4%)	NO
4th081 _Open Plan Office P	NO (-59.2%)	NO
4th082 _Open Plan Office P	NO (-97.9%)	NO
4th085 _Open Plan Office P	NO (-53.5%)	NO
4th086 _Open Plan Office P	NO (-18.4%)	NO
4th087 _Open Plan Office P	YES (+2.4%)	NO
4th088 _Open Plan Office P	NO (-75.5%)	NO
4th089 _Open Plan Office P	NO (-89.3%)	NO
4th090 _Open Plan Office P	NO (-13.2%)	NO
4th091 _Open Plan Office P	NO (-59.6%)	NO
4th092 _Open Plan Office P	YES (+47.1%)	NO
4th093 _Open Plan Office P	YES (+2.7%)	NO
4th116 _WC	N/A	N/A
4th117 _WC	N/A	N/A
4th118 _WC	N/A	N/A
4th119 _WC	N/A	N/A
4th120 _WC	N/A	N/A
4th122 _WC	N/A	N/A
4th123 _WC	N/A	N/A
4th125 _WC	N/A	N/A
5th000 _Circulation	N/A	N/A
5th001 _Circulation	NO (-81%)	NO
5th002 _Circulation	N/A	N/A
5th004 _Circulation	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
5th005 _Circulation	N/A	N/A
5th006 _Circulation	N/A	N/A
5th007 _Circulation	NO (-34.2%)	NO
5th008 _Circulation	NO (-39.7%)	NO
5th009 _Circulation	N/A	N/A
5th011 _Cleaners Cupboard	N/A	N/A
5th012 _Cleaners Cupboard	N/A	N/A
5th013 _Open Plan Office	NO (-86.4%)	NO
5th014 _Open Plan Office	NO (-93.9%)	NO
5th015 _Open Plan Office	NO (-97.4%)	NO
5th016 _Open Plan Office	NO (-97.2%)	NO
5th017 _Open Plan Office	NO (-96.9%)	NO
5th018 _Open Plan Office	NO (-90.7%)	NO
5th018 _Open Plan Office	NO (-87.3%)	NO
5th018 _Open Plan Office	NO (-97.3%)	NO
5th019 _Open Plan Office	NO (-88.6%)	NO
5th021 _Open Plan Office	NO (-61.2%)	NO
5th022 _Open Plan Office	NO (-96.7%)	NO
5th023 _Open Plan Office	NO (-97.9%)	NO
5th024 _Open Plan Office	NO (-74.1%)	NO
5th025 _Open Plan Office	NO (-68.1%)	NO
5th026 _Open Plan Office	NO (-97.5%)	NO
5th027 _Open Plan Office	NO (-68.2%)	NO
5th028 _Open Plan Office	NO (-97.5%)	NO
5th029 _Open Plan Office	NO (-52%)	NO
5th031 _Open Plan Office P	NO (-57.8%)	NO
5th032 _Open Plan Office P	NO (-48.6%)	NO
5th035 _Open Plan Office P	NO (-97.1%)	NO
5th036 _Open Plan Office P	NO (-29.6%)	NO
5th037 _Open Plan Office P	NO (-29.4%)	NO
5th039 _Open Plan Office P	NO (-33.8%)	NO
5th040 _Open Plan Office P	NO (-26.3%)	NO
5th044 _Open Plan Office P	NO (-96.6%)	NO
5th046 _Open Plan Office P	NO (-28.8%)	NO
5th047 _Open Plan Office P	NO (-50.2%)	NO
5th049 _Open Plan Office P	NO (-50.7%)	NO
5th050 _Open Plan Office P	NO (-22.5%)	NO
5th051 _Open Plan Office P	NO (-24.1%)	NO
5th056 _Open Plan Office P	NO (-24.6%)	NO
5th057 _Open Plan Office P	NO (-55.3%)	NO
5th058 _Open Plan Office P	NO (-57%)	NO
5th059 _Open Plan Office P	NO (-56.4%)	NO
5th060 _Open Plan Office P	NO (-26.6%)	NO
5th062 _Open Plan Office P	NO (-92.8%)	NO
5th078 _Stair	NO (-96.9%)	NO
5th079 _WC	N/A	N/A
5th080 _WC	N/A	N/A
5th081 _WC	N/A	N/A
5th082 _WC	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
5th083 _WC	N/A	N/A
5th084 _WC	N/A	N/A
6th000 _Circulation	N/A	N/A
6th001 _Circulation	N/A	N/A
6th002 _Circulation	NO (-84.5%)	NO
6th003 _Circulation	NO (-87.2%)	NO
6th005 _Open Plan Office	NO (-59.1%)	NO
6th006 _Open Plan Office	NO (-57%)	NO
6th007 _Open Plan Office	NO (-60.9%)	NO
6th008 _Open Plan Office	NO (-64.4%)	NO
6th009 _Open Plan Office	NO (-73.6%)	NO
6th009 _Open Plan Office	YES (+40%)	NO
6th011 _Open Plan Office P	NO (-22.8%)	NO
6th012 _Open Plan Office P	NO (-14.8%)	NO
6th013 _Open Plan Office P	NO (-27.7%)	NO
6th014 _Open Plan Office P	NO (-48.9%)	NO
6th016 _Open Plan Office P	NO (-20.8%)	NO
6th018 _Open Plan Office P	NO (-27.6%)	NO
6th019 _Open Plan Office P	NO (-24.6%)	NO
6th020 _Open Plan Office P	NO (-85.6%)	NO
6th023 _Open Plan Office P	YES (+2.7%)	NO
6th024 _Open Plan Office P	NO (-22.5%)	NO
6th025 _Open Plan Office P	NO (-35.7%)	NO
6th027 _Kitchen	NO (-99.9%)	NO
6th036 _WC	N/A	N/A
6th039 _WC	N/A	N/A
6th040 _WC	N/A	N/A
6th041 _Circulation	N/A	N/A
B000 _Circulation	N/A	N/A
B001 _Circulation	N/A	N/A
B002 _Circulation	N/A	N/A
B003 _Circulation	N/A	N/A
B004 _Circulation	N/A	N/A
B005 _Circulation	N/A	N/A
B006 _Circulation	N/A	N/A
B007 _FF Lobby	N/A	N/A
GF000 _Circulation	N/A	N/A
GF001 _Circulation	N/A	N/A
GF002 _Circulation	N/A	N/A
GF003 _Circulation	NO (-69.4%)	NO
GF004 _Circulation	N/A	N/A
GF005 _Circulation	N/A	N/A
GF006 _Circulation	N/A	N/A
GF007 _Circulation	N/A	N/A
GF008 _Circulation	NO (-43.5%)	NO
GF011 _Circulation	N/A	N/A
GF012 _Circulation	NO (-81%)	NO
GF014 _Circulation	NO (-91.3%)	NO
GF015 _Circulation	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
GF017 _Circulation	N/A	N/A
GF020 _Kitchen	NO (-62.8%)	NO
GF021 _Open Office P	NO (-10.9%)	NO
GF022 _Open Office P	YES (+21.4%)	NO
GF023 _Open Office P	YES (+15.9%)	NO
GF024 _Open Office P	NO (-7.8%)	NO
GF025 _Open Office P	YES (+8.5%)	NO
GF026 _Open Office P	NO (-2.9%)	NO
GF027 _Open Office P	NO (-6.1%)	NO
GF028 _Open Office P	YES (+5.6%)	NO
GF029 _ReceptionP	NO (-62.4%)	NO
GF029 _Security Room	NO (-69.8%)	NO
GF030 _Office	NO (-95.4%)	NO
GF031 _Restaurant	N/A	N/A
GF032 _Restaurant	N/A	N/A
GF032 _Restaurant	NO (-95%)	NO
GF033 _Office P	NO (-76%)	NO
GF034 _Office P	NO (-67.5%)	NO
GF038 _Office P	NO (-78.6%)	NO
GF039 _Restaurant P	NO (-87.2%)	NO
GF042 _Restaurant P	NO (-94%)	NO
GF062 _Servery	N/A	N/A
GF063 _Stair	N/A	N/A
GF067 _WC	N/A	N/A
GF068 _WC	N/A	N/A
GF069 _WC	N/A	N/A
GF070 _WC	N/A	N/A
LG001_Catering Store 4	N/A	N/A
LG002_Catering Store 2	N/A	N/A
LG003_Catering Store 1	N/A	N/A
LG004_Catering Store 3	N/A	N/A
LG005_Changing Areas-circulation	N/A	N/A
LG006_Changing Areas-circulation	N/A	N/A
LG007_Changing Areas-shower	N/A	N/A
LG008_Changing Areas-shower	N/A	N/A
LG009_Changing Areas-WC	N/A	N/A
LG010_Changing Areas-WC	N/A	N/A
LG011_Changing Areas-circulation	N/A	N/A
LG012_Changing Areas-shower	N/A	N/A
LG013_Circulation	N/A	N/A
LG014_Circulation	NO (-73%)	NO
LG015_Circulation	N/A	N/A
LG016_Circulation	N/A	N/A
LG017_Circulation	N/A	N/A
LG018_Circulation	N/A	N/A
LG019_Circulation	NO (-55.9%)	NO
LG020_Circulation	N/A	N/A
LG021_Circulation	N/A	N/A
LG022_Circulation	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
LG023_Circulation	N/A	N/A
LG024_Circulation	N/A	N/A
LG025_Circulation	N/A	N/A
LG026_Circulation	N/A	N/A
LG027_Circulation	N/A	N/A
LG028_Circulation	N/A	N/A
LG029_Circulation	N/A	N/A
LG030_Circulation	N/A	N/A
LG031_Circulation	NO (-94%)	NO
LG032_Cleaners Cupboard	N/A	N/A
LG033_Corridor	N/A	N/A
LG034_Delivery Area	NO (-94.2%)	NO
LG036_Entrance Lobby	N/A	N/A
LG037_General Store	N/A	N/A
LG038_Goods Lift Lobby	N/A	N/A
LG039_Gym	YES (+6.7%)	NO
LG040_Gym	NO (-17.8%)	NO
LG041_Gym	NO (-8.8%)	NO
LG042_Gym	NO (-16.5%)	NO
LG043_Gym	YES (+139.7%)	NO
LG044_Gym	NO (-51.1%)	NO
LG045_Gym Entrance	YES (+6.7%)	NO
LG046_Gym Lobby	N/A	N/A
LG047 IT Hub	YES (+9.8%)	NO
LG071_Lobby	N/A	N/A
LG072_Lobby	N/A	N/A
LG073_Lobby	N/A	N/A
LG074_Physio Room	YES (+8.7%)	NO
LG078_Post Room	N/A	N/A
LG079_Saffron Hill Reception	NO (-58.7%)	NO
LG081_Security Booth	N/A	N/A
LG082_Security_Booth	N/A	N/A
LG083_Security Room	NO (-82.7%)	NO
LG084_Shauffeur's Room	N/A	N/A
LG085_Shower	N/A	N/A
LG086_Stationery Room	N/A	N/A
LG087_Store	N/A	N/A
LG088_Store	N/A	N/A
LG089_Store	NO (-83.8%)	NO
LG090_Store	N/A	N/A
LG091_Store	N/A	N/A
LG092_Store	N/A	N/A
LG094_Switch Room Lobby	N/A	N/A
LG098_WC	N/A	N/A
LG099_WC Lobby	N/A	N/A
LG100_Wine Room	N/A	N/A

#### **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**

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

# Technical Data Sheet (Actual vs. Notional Building)

## Building Global Parameters

	Actual	Notional
Area [m <sup>2</sup> ]	14495.6	14495.6
External area [m <sup>2</sup> ]	12979.8	12979.8
Weather	LON	LON
Infiltration [m <sup>3</sup> /hm <sup>2</sup> @ 50Pa]	5	3
Average conductance [W/K]	6218.42	0
Average U-value [W/m <sup>2</sup> K]	0.48	0
Alpha value* [%]	10.27	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
100	<b>B1 Offices and Workshop businesses</b>
	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/m<sup>2</sup>]

	Actual	Notional
Heating	2.38	2.23
Cooling	6.74	6.94
Auxiliary	16.33	12.2
Lighting	10.09	18.57
Hot water	5.3	5.41
Equipment*	49.47	49.47
<b>TOTAL **</b>	<b>40.84</b>	<b>45.36</b>

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

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

## Energy Production by Technology [kWh/m<sup>2</sup>]

	Actual	Notional
Photovoltaic systems	1.26	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0

## Energy & CO<sub>2</sub> Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m <sup>2</sup> ]	103.48	115.26
Primary energy* [kWh/m <sup>2</sup> ]	128.84	134.51
Total emissions [kg/m <sup>2</sup> ]	19.7	21.8

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

HVAC Systems Performance										
System Type	Heat dem MJ/m2	Cool dem MJ/m2	Heat con kWh/m2	Cool con kWh/m2	Aux con kWh/m2	Heat SSEFF	Cool SSEER	Heat gen SEFF	Cool gen SEER	
[ST] Fan coil systems, [HS] Heat pump (electric): air source, [HFT] Electricity, [CFT] Electricity										
	Actual	30.4	88.8	2.7	7.8	18.7	3.09	3.18	3.27	4.05
	Notional	0	0	0	0	0	0	0	----	----
[ST] Single room cooling system, [HS] LTHW boiler, [HFT] Natural Gas, [CFT] Electricity										
	Actual	0	0	0	0	0	0.85	1.42	0.92	2
	Notional	23.7	109.1	2.6	8	14.1	2.56	3.79	----	----
[ST] No Heating or Cooling										
	Actual	0	0	0	0	0	0	0	0	0
	Notional	0	0	0	0	0	0.86	3.79	----	----

## 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 <sub>i-Typ</sub>	U <sub>i-Min</sub>	Surface where the minimum value occurs*
Wall	0.23	0.2	01000000:Surf[0]
Floor	0.2	0.22	01000029:Surf[4]
Roof	0.15	0.16	4T000008:Surf[0]
Windows, roof windows, and rooflights	1.5	1.4	0100004C:Surf[1]
Personnel doors	1.5	0.2	01000042:Surf[2]
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 <sub>i-Typ</sub> = Typical individual element U-values [W/(m²K)]		U <sub>i-Min</sub> = 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	5