

# SBEM Data Reflection Report — Actual Building

Date: Tue Jul 16 14:40:52 2019

Project name: 106 High Street

Building type: B1 Offices and Workshop businesses

Building area [m2]: 91.92

General	
Building address	106 High Street Ripley  WOKING GU23 6AN
Building area [m2]	91.92
Weather	LON
Building rotation [degrees]	0
Special conservation status	NO
Project complexity	Level 3

Certifier/Energy assessor	
Name	Simon Cole
Telephone number	0800 170 1201
Address	7 Park Crescent Terrace Brighton BN2 3HD
Assessor number	EES/012641
Qualification	NOS4
Accreditation scheme	Elmhurst Energy Systems Ltd
Employer name	Easy EPC
Employer address	12 Albion Street Brighton East Sussex BN2 9NE

Owner	
Name	
Telephone number	
Address	

Analysis	
Compliance checked with	None
Asset rating	EPC England
Stage	As built
Shell & core building	NO

Software	
SBEM version	v5.6.a.1
Interface to SBEM	DesignBuilder SBEM
Interface version	v6.1.0

Envelope/Door constructions				
Name	U-value [W/m2K]	Adjusted U-value	Km [kJ/m2K]	Metal clad
Project internal mass	3.017	NO	88.2	NO
Project semi-exposed ceiling	0.250	NO	10.847	NO
Project external floor	0.250	NO	34.39	NO
Project external door	2.823	NO	29.278	NO
95 Project wall	0.510	NO	84	NO
Project partition	1.639	NO	22.5	NO
Project internal floor	2.929	NO	88.2	NO
95 ground floor	0.450	NO	36	NO

Window/Rooflight constructions			
Name	U-value [W/m2K]	Solar transmittance	Light transmittance
DG WOOD glazing	3.183	0.760	0.800

Summary of objects		
Object type	Total number	Total related area [m2]
Envelope/Door constructions	8	-
Window/Rooflight constructions	1	-
HW systems	1	-
SE systems	0	0
PV systems	0	0
Wind generators	0	-
CHP generators	0	-
HVAC systems	2	-
Zones	9	91.94
Envelopes	67	459.4
Doors	1	2
Windows/Rooflights	8	26.1

Project building services	
Electric power factor	<0.9
Submetering and M&T for lighting systems	NO
Emission factor for district heating [kgCO2/kWh]	.293
Primary energy factor for district heating [kWh/kWh]	1.2

Notes

Hot water systems	
Name	Stand Alone Elec
Generator Type	Stand-alone water heater
Fuel type	Grid Supplied Electricity
Seasonal efficiency	1
Uses CHP	NO
Storage system	YES
Storage volume [litres]	20.6
Insulation thickness [mm]	25 (Factory insulated)
Secondary circulation	NO
Circulation losses [W/m]	-
Pump power [kW]	-
Loop length [m]	-

**Notes**

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Heating, ventilation, and air conditioning systems		
Name	Default	No Heating or Cooling
Type	Other local room heater - fanned	No Heating or Cooling
Heat source	Room heater	-
Heating fuel type	Grid Supplied Electricity	-
Heating seasonal efficiency	1.000	-
Uses CHP	NO	-
Variable speed pumping type	-	-
Generator radiant efficiency	-	-
Cooling generator type	-	-
Cooling fuel type	-	-
Cooling seasonal energy efficiency ratio	-	-
Cooling nominal energy efficiency ratio	-	-
Mixed-mode cooling operation	-	-
Heat recovery system	-	-
Heat recovery seasonal efficiency	-	-
Variable heat recovery efficiency	-	-
Specific fan power [W/(l/s)]	-	-
Submetering and M&T for this system	NO	-
Heating - Central time control	YES	-
Heating - Optimum stop/start control	YES	-
Heating - Local time control	YES	-
Heating - Local temperature control	YES	-
Heating - Weather compensation control	YES	-

**Notes**

**Zone name:** Block 1 - REC**Activity:** Reception**Multiplier:** 1**Area [m2]:** 6.79**Height [m]:** 2.45**Air permeability @ 50pa [m3/hm2]:** 15.000**HVAC system, ventilation, and exhaust**

Name	Default
Destratification fans	NO
Ventilation type	Natural
SFP for local mechanical supply & extract [W/(l/s)]	-
Heat Recovery system	-
Heat recovery seasonal efficiency	-
Variable heat recovery efficiency	-
Local mechanical exhaust	NO
Exhaust air flow rate [l/s.m2]	-
SFP for mechanical exhaust [W/(l/s)]	-
Exhaust fans location	-
SFP for system terminal units [W/(l/s)]	-
Demand-controlled ventilation	None
Flow regulation type for ventilation control	-
Night cooling maximum hours [hours/month]	-
Night cooling maximum air flow rate [l/s.m2]	-
SFP for night cooling [W/(l/s)]	-

**General Lighting and controls**

Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	T8 Fluorescent - halophosphate - low frequency ballast
Air-extracting luminaires	NO
Controls	NONE
Type of photoelectric control	-
Different sensor for back of zone	-
Photoelectric control parasitic power [W/m2]	-
Automatic zoning for daylight	YES
Occupancy sensing	NONE
Occupancy sensing parasitic power [W/m2]	-

**Display lighting**

Efficient lamps	YES
Lumens per circuit wattage	50
Time switching	NO

**Thermal bridges Psi values [W/mK]**

Junction type	Metal clad	Not metal clad
Roof-wall	0.42	0.18
Wall-ground floor	1.725	0.24
Wall-wall (corner)	0.375	0.135
Wall-not ground floor	0.04	0.11
Lintel (window/door)	1.905	0.45
Sill (window)	1.905	0.08
Jamb (window/door)	1.905	0.09

**Hot water system**

Name	Stand Alone Elec
Dead leg length in this zone [m]	0.00

**Shell & core**

Shell area for fit-out	-
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**Envelopes**

(Multiplier) Name	(1) Block 1 - REC_S_3	(1) Block 1 - REC_F_4	(1) Block 1 - REC_P_5	(1) Block 1 - REC_P_6	(1) Block 1 - REC_W_7	(1) Block 1 - REC_W_8
Type	Floor or Ceiling	Floor or Ceiling	Wall	Wall	Wall	Wall
Area [m2]	6.8	6.8	6.8	6.0	6.8	6.0
Orientation	Horizontal	Horizontal	East	North	West	South
Adjacent space	Underground	Conditioned	Conditioned	Conditioned	Exterior	Exterior
Construction name	95 ground floor	Project internal floor	Project partition	Project partition	95 Project wall	95 Project wall

**Windows & rooflights**

(Multiplier) Name	(1) Block 1 - REC_G_9
In envelope	Block 1 - REC_W_8
Area [m2]	2.8
Glazing name	DG WOOD glazing
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1.00
Frame / Aspect ratios	0.180 / 0.982

**Notes**

**Zone name:** Block 1 - SC**Activity:** Circulation area (corridors and stairways)**Multiplier:** 1**Area [m2]:** 4.84**Height [m]:** 2.45**Air permeability @ 50pa [m3/hm2]:** 15.000**HVAC system, ventilation, and exhaust**

Name	Default
Destratification fans	NO
Ventilation type	Natural
SFP for local mechanical supply & extract [W/(l/s)]	-
Heat Recovery system	-
Heat recovery seasonal efficiency	-
Variable heat recovery efficiency	-
Local mechanical exhaust	NO
Exhaust air flow rate [l/s.m2]	-
SFP for mechanical exhaust [W/(l/s)]	-
Exhaust fans location	-
SFP for system terminal units [W/(l/s)]	-
Demand-controlled ventilation	None
Flow regulation type for ventilation control	-
Night cooling maximum hours [hours/month]	-
Night cooling maximum air flow rate [l/s.m2]	-
SFP for night cooling [W/(l/s)]	-

**General Lighting and controls**

Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	Tungsten or Halogen
Air-extracting luminaires	NO
Controls	NONE
Type of photoelectric control	-
Different sensor for back of zone	-
Photoelectric control parasitic power [W/m2]	-
Automatic zoning for daylight	YES
Occupancy sensing	NONE
Occupancy sensing parasitic power [W/m2]	-

**Hot water system**

Name	Stand Alone Elec
Dead leg length in this zone [m]	0.00

**Display lighting**

Efficient lamps	NO
Lumens per circuit wattage	-
Time switching	NO

**Thermal bridges Psi values [W/mK]**

Junction type	Metal clad	Not metal clad
Roof-wall	0.42	0.18
Wall-ground floor	1.725	0.24
Wall-wall (corner)	0.375	0.135
Wall-not ground floor	0.04	0.11
Lintel (window/door)	1.905	0.45
Sill (window)	1.905	0.08
Jamb (window/door)	1.905	0.09

**Shell & core**

Shell area for fit-out	-
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**Envelopes**

(Multiplier) Name	(1) Block 1 - SC_S_3	(1) Block 1 - SC_F_4	(1) Block 1 - SC_F_5	(1) Block 1 - SC_W_6	(1) Block 1 - SC_P_7	(1) Block 1 - SC_P_8	(1) Block 1 - SC_W_9
Type	Floor or Ceiling	Floor or Ceiling	Floor or Ceiling	Wall	Wall	Wall	Wall
Area [m2]	4.8	4.0	0.8	9.2	3.2	9.2	3.2
Orientation	Horizontal	Horizontal	Horizontal	East	North	West	South
Adjacent space	Underground	Unheated	Conditioned	Exterior	Conditioned	Conditioned	Exterior
Construction name	95 ground floor	Project internal floor	Project internal floor	95 Project wall	Project partition	Project partition	95 Project wall

**Doors**

(Multiplier) Name	(1) Block 1 - SC_D_10
In envelope	Block 1 - SC_W_9
Area [m2]	2.0
Type	Personnel
Construction name	Project external door

**Notes**

**Zone name:** Block 1 - OFF**Activity:** Generic Office Area**Multiplier:** 1**Area [m2]:** 19.37**Height [m]:** 2.45**Air permeability @ 50pa [m3/hm2]:** 15.000**HVAC system, ventilation, and exhaust**

Name	Default
Destratification fans	NO
Ventilation type	Natural
SFP for local mechanical supply & extract [W/(l/s)]	-
Heat Recovery system	-
Heat recovery seasonal efficiency	-
Variable heat recovery efficiency	-
Local mechanical exhaust	NO
Exhaust air flow rate [l/s.m2]	-
SFP for mechanical exhaust [W/(l/s)]	-
Exhaust fans location	-
SFP for system terminal units [W/(l/s)]	-
Demand-controlled ventilation	None
Flow regulation type for ventilation control	-
Night cooling maximum hours [hours/month]	-
Night cooling maximum air flow rate [l/s.m2]	-
SFP for night cooling [W/(l/s)]	-

**General Lighting and controls**

Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	T8 Fluorescent - halophosphate - low frequency ballast
Air-extracting luminaires	NO
Controls	NONE
Type of photoelectric control	-
Different sensor for back of zone	-
Photoelectric control parasitic power [W/m2]	-
Automatic zoning for daylight	YES
Occupancy sensing	NONE
Occupancy sensing parasitic power [W/m2]	-

**Display lighting**

Efficient lamps	NO
Lumens per circuit wattage	-
Time switching	NO

**Thermal bridges Psi values [W/mK]**

Junction type	Metal clad	Not metal clad
Roof-wall	0.42	0.18
Wall-ground floor	1.725	0.24
Wall-wall (corner)	0.375	0.135
Wall-not ground floor	0.04	0.11
Lintel (window/door)	1.905	0.45
Sill (window)	1.905	0.08
Jamb (window/door)	1.905	0.09

**Hot water system**

Name	Stand Alone Elec
Dead leg length in this zone [m]	0.00

**Shell & core**

Shell area for fit-out	-
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**Envelopes**

(Multiplier) Name	(1) Block 1 - OFF_S_3	(1) Block 1 - OFF_F_4	(1) Block 1 - OFF_F_5	(1) Block 1 - OFF_P_6	(1) Block 1 - OFF_P_7	(1) Block 1 - OFF_W_8	(1) Block 1 - OFF_W_9	(1) Block 1 - OFF_W_11
Type	Floor or Ceiling	Floor or Ceiling	Floor or Ceiling	Wall	Wall	Wall	Wall	Wall
Area [m2]	19.4	14.9	4.5	2.4	9.3	10.9	9.3	13.3
Orientation	Horizontal	Horizontal	Horizontal	East	South	East	North	West
Adjacent space	Underground	Conditioned	Unheated	Conditioned	Conditioned	Exterior	Exterior	Exterior
Construction name	95 ground floor	Project internal floor	Project internal floor	Project partition	Project partition	95 Project wall	95 Project wall	95 Project wall

**Windows & rooflights**

(Multiplier) Name	(1) Block 1 - OFF_G_10
In envelope	Block 1 - OFF_W_9
Area [m2]	5.5
Glazing name	DG WOOD glazing
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1.00
Frame / Aspect ratios	0.180 / 1.00

**Notes**

**Zone name:** Block 2 - T5**Activity:** Generic Office Area**Multiplier:** 1**Area [m2]:** 4.83**Height [m]:** 2.35**Air permeability @ 50pa [m3/hm2]:** 15.000**HVAC system, ventilation, and exhaust**

Name	Default
Destratification fans	NO
Ventilation type	Natural
SFP for local mechanical supply & extract [W/(l/s)]	-
Heat Recovery system	-
Heat recovery seasonal efficiency	-
Variable heat recovery efficiency	-
Local mechanical exhaust	NO
Exhaust air flow rate [l/s.m2]	-
SFP for mechanical exhaust [W/(l/s)]	-
Exhaust fans location	-
SFP for system terminal units [W/(l/s)]	-
Demand-controlled ventilation	None
Flow regulation type for ventilation control	-
Night cooling maximum hours [hours/month]	-
Night cooling maximum air flow rate [l/s.m2]	-
SFP for night cooling [W/(l/s)]	-

**General Lighting and controls**

Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	T5 Fluorescent - triphosphor-coated - high frequency ballast
Air-extracting luminaires	NO
Controls	NONE
Type of photoelectric control	-
Different sensor for back of zone	-
Photoelectric control parasitic power [W/m2]	-
Automatic zoning for daylight	YES
Occupancy sensing	NONE
Occupancy sensing parasitic power [W/m2]	-

**Display lighting**

Efficient lamps	NO
Lumens per circuit wattage	-
Time switching	NO

**Thermal bridges Psi values [W/mK]**

Junction type	Metal clad	Not metal clad
Roof-wall	0.42	0.18
Wall-ground floor	1.725	0.24
Wall-wall (corner)	0.375	0.135
Wall-not ground floor	0.04	0.11
Lintel (window/door)	1.905	0.45
Sill (window)	1.905	0.08
Jamb (window/door)	1.905	0.09

**Hot water system**

Name	Stand Alone Elec
Dead leg length in this zone [m]	0.00

**Shell & core**

Shell area for fit-out	-
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**Envelopes**

(Multiplier) Name	(1) Block 2 - T5_F_3	(1) Block 2 - T5_F_4	(1) Block 2 - T5_R_5	(1) Block 2 - T5_P_6	(1) Block 2 - T5_W_7	(1) Block 2 - T5_P_9	(1) Block 2 - T5_P_10
Type	Floor or Ceiling	Floor or Ceiling	Flat roof	Wall	Wall	Wall	Wall
Area [m2]	3.6	1.2	4.8	4.1	4.0	6.7	2.6
Orientation	Horizontal	Horizontal	Horizontal	East	North	West	East
Adjacent space	Conditioned	Exterior	Exterior	Conditioned	Exterior	Conditioned	Unheated
Construction name	Project internal floor	Project external floor	Project semi-exposed ceil	Project partition	95 Project wall	Project partition	Project partition

**Windows & rooflights**

(Multiplier) Name	(1) Block 2 - T5_G_8
In envelope	Block 2 - T5_W_7
Area [m2]	3.5
Glazing name	DG WOOD glazing
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1.00
Frame / Aspect ratios	0.180 / 1.24

**Notes**

<b>Zone name:</b> Block 2 - WCS	<b>Activity:</b> Toilet	<b>Multiplier:</b> 1
<b>Area [m2]:</b> 4.39	<b>Height [m]:</b> 2.35	<b>Air permeability @ 50pa [m3/hm2]:</b> 15.000

HVAC system, ventilation, and exhaust	
Name	Default
Destratification fans	NO
Ventilation type	Natural
SFP for local mechanical supply & extract [W/(l/s)]	-
Heat Recovery system	-
Heat recovery seasonal efficiency	-
Variable heat recovery efficiency	-
Local mechanical exhaust	NO
Exhaust air flow rate [l/s.m2]	-
SFP for mechanical exhaust [W/(l/s)]	-
Exhaust fans location	-
SFP for system terminal units [W/(l/s)]	-
Demand-controlled ventilation	None
Flow regulation type for ventilation control	-
Night cooling maximum hours [hours/month]	-
Night cooling maximum air flow rate [l/s.m2]	-
SFP for night cooling [W/(l/s)]	-

General Lighting and controls	
Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	Tungsten or Halogen
Air-extracting luminaires	NO
Controls	NONE
Type of photoelectric control	-
Different sensor for back of zone	-
Photoelectric control parasitic power [W/m2]	-
Automatic zoning for daylight	YES
Occupancy sensing	NONE
Occupancy sensing parasitic power [W/m2]	-

Display lighting	
Efficient lamps	NO
Lumens per circuit wattage	-
Time switching	NO

Thermal bridges Psi values [W/mK]		
Junction type	Metal clad	Not metal clad
Roof-wall	0.42	0.18
Wall-ground floor	1.725	0.24
Wall-wall (corner)	0.375	0.135
Wall-not ground floor	0.04	0.11
Lintel (window/door)	1.905	0.45
Sill (window)	1.905	0.08
Jamb (window/door)	1.905	0.09

Hot water system	
Name	Stand Alone Elec
Dead leg length in this zone [m]	0.00

Shell & core	
Shell area for fit-out	-

Envelopes						
(Multiplier) Name	(1) Block 2 - WCS_F_3	(1) Block 2 - WCS_R_4	(1) Block 2 - WCS_W_5	(1) Block 2 - WCS_W_6	(1) Block 2 - WCS_P_8	(1) Block 2 - WCS_P_9
Type	Floor or Ceiling	Flat roof	Wall	Wall	Wall	Wall
Area [m2]	4.4	4.4	4.1	5.9	4.1	5.9
Orientation	Horizontal	Horizontal	East	North	West	South
Adjacent space	Conditioned	Exterior	Exterior	Exterior	Conditioned	Unheated
Construction name	Project internal floor	Project semi-exposed ceil	95 Project wall	95 Project wall	Project partition	Project partition

Windows & rooflights	
(Multiplier) Name	(1) Block 2 - WCS_G_7
In envelope	Block 2 - WCS_W_6
Area [m2]	2.3
Glazing name	DG WOOD glazing
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1.00
Frame / Aspect ratios	0.180 / 1.77

Notes



**Zone name:** Block 2 - OFF

**Activity:** Generic Office Area

**Multiplier:** 1

**Area [m2]:** 33.96

**Height [m]:** 2.35

**Air permeability @ 50pa [m3/hm2]:** 15.000

HVAC system, ventilation, and exhaust	
Name	Default
Destratification fans	NO
Ventilation type	Natural
SFP for local mechanical supply & extract [W/(l/s)]	-
Heat Recovery system	-
Heat recovery seasonal efficiency	-
Variable heat recovery efficiency	-
Local mechanical exhaust	NO
Exhaust air flow rate [l/s.m2]	-
SFP for mechanical exhaust [W/(l/s)]	-
Exhaust fans location	-
SFP for system terminal units [W/(l/s)]	-
Demand-controlled ventilation	None
Flow regulation type for ventilation control	-
Night cooling maximum hours [hours/month]	-
Night cooling maximum air flow rate [l/s.m2]	-
SFP for night cooling [W/(l/s)]	-

General Lighting and controls	
Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	T8 Fluorescent - halophosphate - low frequency ballast
Air-extracting luminaires	NO
Controls	NONE
Type of photoelectric control	-
Different sensor for back of zone	-
Photoelectric control parasitic power [W/m2]	-
Automatic zoning for daylight	YES
Occupancy sensing	NONE
Occupancy sensing parasitic power [W/m2]	-

Hot water system	
Name	Stand Alone Elec
Dead leg length in this zone [m]	0.00

Display lighting	
Efficient lamps	NO
Lumens per circuit wattage	-
Time switching	NO

Thermal bridges Psi values [W/mK]		
Junction type	Metal clad	Not metal clad
Roof-wall	0.42	0.18
Wall-ground floor	1.725	0.24
Wall-wall (corner)	0.375	0.135
Wall-not ground floor	0.04	0.11
Lintel (window/door)	1.905	0.45
Sill (window)	1.905	0.08
Jamb (window/door)	1.905	0.09

Shell & core	
Shell area for fit-out	-

Envelopes										
(Multiplier) Name	(1) Block 2 - OFF_F_3	(1) Block 2 - OFF_F_4	(1) Block 2 - OFF_R_5	(1) Block 2 - OFF_P_6	(1) Block 2 - OFF_P_7	(1) Block 2 - OFF_P_8	(1) Block 2 - OFF_W_9	(1) Block 2 - OFF_W_11	(1) Block 2 - OFF_W_12	(1) Block 2 - OFF_P_14
Type	Floor or Ceiling	Floor or Ceiling	Flat roof	Wall	Wall	Wall	Wall	Wall	Wall	Wall
Area [m2]	7.4	26.6	34.0	6.4	3.5	12.9	7.5	19.3	6.7	8.2
Orientation	Horizontal	Horizontal	Horizontal	East	North	East	North	West	South	South
Adjacent space	Conditioned	Exterior	Exterior	Unheated	Unheated	Conditioned	Exterior	Exterior	Exterior	Conditioned
Construction name	Project internal floor	Project external floor	Project semi-exposed ceil	Project partition	Project partition	Project partition	95 Project wall	95 Project wall	95 Project wall	Project partition

### Envelopes - continued

(Multiplier) Name	(1) Block 2 - OFF_P_15
Type	Wall
Area [m2]	1.7
Orientation	North
Adjacent space	Conditioned
Construction name	Project internal mass

### Windows & rooflights

(Multiplier) Name	(1) Block 2 - OFF_G_10	(1) Block 2 - OFF_G_13
In envelope	Block 2 - OFF_W_9	Block 2 - OFF_W_12
Area [m2]	2.5	3.2
Glazing name	DG WOOD glazing	DG WOOD glazing
Shading position	None (no shading)	None (no shading)
Shading colour	-	-
Shading translucency	-	-
Transmission factor	1.00	1.00
Frame / Aspect ratios	0.180 / 0.532	0.180 / 0.418

### Notes

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<b>Zone name:</b> Block 2 - T5	<b>Activity:</b> Generic Office Area	<b>Multiplier:</b> 1
<b>Area [m2]:</b> 9.25	<b>Height [m]:</b> 2.35	<b>Air permeability @ 50pa [m3/hm2]:</b> 15.000

HVAC system, ventilation, and exhaust	
Name	Default
Destratification fans	NO
Ventilation type	Natural
SFP for local mechanical supply & extract [W/(l/s)]	-
Heat Recovery system	-
Heat recovery seasonal efficiency	-
Variable heat recovery efficiency	-
Local mechanical exhaust	NO
Exhaust air flow rate [l/s.m2]	-
SFP for mechanical exhaust [W/(l/s)]	-
Exhaust fans location	-
SFP for system terminal units [W/(l/s)]	-
Demand-controlled ventilation	None
Flow regulation type for ventilation control	-
Night cooling maximum hours [hours/month]	-
Night cooling maximum air flow rate [l/s.m2]	-
SFP for night cooling [W/(l/s)]	-

General Lighting and controls	
Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	T5 Fluorescent - triphosphor-coated - high frequency ballast
Air-extracting luminaires	NO
Controls	NONE
Type of photoelectric control	-
Different sensor for back of zone	-
Photoelectric control parasitic power [W/m2]	-
Automatic zoning for daylight	YES
Occupancy sensing	NONE
Occupancy sensing parasitic power [W/m2]	-

Display lighting	
Efficient lamps	NO
Lumens per circuit wattage	-
Time switching	NO

Thermal bridges Psi values [W/mK]		
Junction type	Metal clad	Not metal clad
Roof-wall	0.42	0.18
Wall-ground floor	1.725	0.24
Wall-wall (corner)	0.375	0.135
Wall-not ground floor	0.04	0.11
Lintel (window/door)	1.905	0.45
Sill (window)	1.905	0.08
Jamb (window/door)	1.905	0.09

Hot water system	
Name	Stand Alone Elec
Dead leg length in this zone [m]	0.00

Shell & core	
Shell area for fit-out	-

Envelopes								
(Multiplier) Name	(1) Block 2 - T5_F_3	(1) Block 2 - T5_F_4	(1) Block 2 - T5_R_5	(1) Block 2 - T5_P_6	(1) Block 2 - T5_P_7	(1) Block 2 - T5_P_8	(1) Block 2 - T5_W_9	(1) Block 2 - T5_P_11
Type	Floor or Ceiling	Floor or Ceiling	Flat roof	Wall	Wall	Wall	Wall	Wall
Area [m2]	7.2	2.1	9.3	2.5	8.2	6.2	8.2	3.8
Orientation	Horizontal	Horizontal	Horizontal	East	North	West	South	East
Adjacent space	Conditioned	Exterior	Exterior	Unheated	Conditioned	Conditioned	Exterior	Unheated
Construction name	Project internal floor	Project external floor	Project semi-exposed ceil	Project partition	Project partition	Project partition	95 Project wall	Project partition

Windows & rooflights	
(Multiplier) Name	(1) Block 2 - T5_G_10
In envelope	Block 2 - T5_W_9
Area [m2]	5.5
Glazing name	DG WOOD glazing
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1.00
Frame / Aspect ratios	0.180 / 2.41

Notes

**Zone name:** Block 2 - SC**Activity:** Circulation area (corridors and stairways)**Multiplier:** 1**Area [m2]:** 6.78**Height [m]:** 2.35**Air permeability @ 50pa [m3/hm2]:** 15.000**HVAC system, ventilation, and exhaust**

Name	No Heating or Cooling
Destratification fans	NO
Ventilation type	Natural
SFP for local mechanical supply & extract [W/(l/s)]	-
Heat Recovery system	-
Heat recovery seasonal efficiency	-
Variable heat recovery efficiency	-
Local mechanical exhaust	NO
Exhaust air flow rate [l/s.m2]	-
SFP for mechanical exhaust [W/(l/s)]	-
Exhaust fans location	-
SFP for system terminal units [W/(l/s)]	-
Demand-controlled ventilation	None
Flow regulation type for ventilation control	-
Night cooling maximum hours [hours/month]	-
Night cooling maximum air flow rate [l/s.m2]	-
SFP for night cooling [W/(l/s)]	-

**General Lighting and controls**

Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	Tungsten or Halogen
Air-extracting luminaires	NO
Controls	NONE
Type of photoelectric control	-
Different sensor for back of zone	-
Photoelectric control parasitic power [W/m2]	-
Automatic zoning for daylight	YES
Occupancy sensing	NONE
Occupancy sensing parasitic power [W/m2]	-

**Hot water system**

Name	Stand Alone Elec
Dead leg length in this zone [m]	0.00

**Display lighting**

Efficient lamps	NO
Lumens per circuit wattage	-
Time switching	NO

**Thermal bridges Psi values [W/mK]**

Junction type	Metal clad	Not metal clad
Roof-wall	0.42	0.18
Wall-ground floor	1.725	0.24
Wall-wall (corner)	0.375	0.135
Wall-not ground floor	0.04	0.11
Lintel (window/door)	1.905	0.45
Sill (window)	1.905	0.08
Jamb (window/door)	1.905	0.09

**Shell & core**

Shell area for fit-out	-
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**Envelopes**

(Multiplier) Name	(1) Block 2 - SC_F_3	(1) Block 2 - SC_R_4	(1) Block 2 - SC_W_5	(1) Block 2 - SC_P_6	(1) Block 2 - SC_P_7	(1) Block 2 - SC_P_8	(1) Block 2 - SC_P_9	(1) Block 2 - SC_P_10
Type	Floor or Ceiling	Flat roof	Wall	Wall	Wall	Wall	Wall	Wall
Area [m2]	6.8	6.8	11.4	5.9	2.6	3.5	8.8	2.5
Orientation	Horizontal	Horizontal	East	North	West	South	West	South
Adjacent space	Conditioned	Exterior	Exterior	Conditioned	Conditioned	Conditioned	Conditioned	Unheated
Construction name	Project internal floor	Project semi-exposed ceil	95 Project wall	Project partition	Project partition	Project partition	Project partition	Project partition

**Notes**

<b>Zone name:</b> Block 2 - SRVR	<b>Activity:</b> Store Room	<b>Multiplier:</b> 1
<b>Area [m2]:</b> 1.73	<b>Height [m]:</b> 2.35	<b>Air permeability @ 50pa [m3/hm2]:</b> 15.000

HVAC system, ventilation, and exhaust	
Name	No Heating or Cooling
Destratification fans	NO
Ventilation type	Natural
SFP for local mechanical supply & extract [W/(l/s)]	-
Heat Recovery system	-
Heat recovery seasonal efficiency	-
Variable heat recovery efficiency	-
Local mechanical exhaust	NO
Exhaust air flow rate [l/s.m2]	-
SFP for mechanical exhaust [W/(l/s)]	-
Exhaust fans location	-
SFP for system terminal units [W/(l/s)]	-
Demand-controlled ventilation	None
Flow regulation type for ventilation control	-
Night cooling maximum hours [hours/month]	-
Night cooling maximum air flow rate [l/s.m2]	-
SFP for night cooling [W/(l/s)]	-

General Lighting and controls	
Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	T8 Fluorescent - halophosphate - low frequency ballast
Air-extracting luminaires	NO
Controls	NONE
Type of photoelectric control	-
Different sensor for back of zone	-
Photoelectric control parasitic power [W/m2]	-
Automatic zoning for daylight	YES
Occupancy sensing	NONE
Occupancy sensing parasitic power [W/m2]	-

Display lighting	
Efficient lamps	NO
Lumens per circuit wattage	-
Time switching	NO

Thermal bridges Psi values [W/mK]		
Junction type	Metal clad	Not metal clad
Roof-wall	0.42	0.18
Wall-ground floor	1.725	0.24
Wall-wall (corner)	0.375	0.135
Wall-not ground floor	0.04	0.11
Lintel (window/door)	1.905	0.45
Sill (window)	1.905	0.08
Jamb (window/door)	1.905	0.09

Hot water system	
Name	Stand Alone Elec
Dead leg length in this zone [m]	0.00

Shell & core	
Shell area for fit-out	-

Envelopes						
(Multiplier) Name	(1) Block 2 - SRVR_F_3	(1) Block 2 - SRVR_R_4	(1) Block 2 - SRVR_W_5	(1) Block 2 - SRVR_P_6	(1) Block 2 - SRVR_P_7	(1) Block 2 - SRVR_W_8
Type	Floor or Ceiling	Flat roof	Wall	Wall	Wall	Wall
Area [m2]	1.7	1.7	3.8	2.5	3.8	2.5
Orientation	Horizontal	Horizontal	East	North	West	South
Adjacent space	Conditioned	Exterior	Exterior	Unheated	Conditioned	Exterior
Construction name	Project internal floor	Project semi-exposed ceil	95 Project wall	Project partition	Project partition	95 Project wall

Windows & rooflights	
(Multiplier) Name	(1) Block 2 - SRVR_G_9
In envelope	Block 2 - SRVR_W_8
Area [m2]	0.8
Glazing name	DG WOOD glazing
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1.00
Frame / Aspect ratios	0.180 / 1.59

Notes