

SBEM Data Reflection Report — Actual Building

Date: Mon Dec 28 10:57:30 2020

Project name: Case stuy 14 **Building type:** Residential spaces **Building area [m2]:** 158

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General	
Building address	Information not provided by the user Information not provided by the user Information not provided by the user
Building area [m2]	158
Weather	MAN
Building rotation [degrees]	0
Special conservation status	YES
Project complexity	Level 3

Certifier/Energy assessor	
Name	Joe Bloggs
Telephone number	9999999999
Address	123 Any Street Any City AB1 2CD
Assessor number	ABCD000000
Qualification	NOS5
Accreditation scheme	Quidos
Employer name	<insert Employer/Trading Name>
Employer address	<insert Employer/Trading Address>

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

Software	
SBEM version	v5.6.b.0
Interface to SBEM	iSBEM
Interface version	v5.6.b

Summary of objects		
Object type	Total number	Total related area [m2]
Envelope/Door constructions	11	-
Window/Rooflight constructions	3	-
HW systems	1	-
SE systems	0	0
PV systems	0	0
Wind generators	0	-
CHP generators	0	-
HVAC systems	4	-
Zones	10	157.86
Envelopes	67	705.38
Doors	2	3.89
Windows/Rooflights	8	13.72

Envelope/Door constructions				
Name	U-value [W/m2K]	Adjusted U-value	Km [kJ/m2K]	Metal clad
Exterior wall	1.1	NO	135	NO
Downstairs partition	1.1	NO	135	NO
Party wall	1.1	NO	135	NO
Kitchen wall	1	NO	129	NO
Upstairs partition	0.48	NO	11.7	NO
Main roof	0.16	NO	12	NO
Kitchen roof	1.7	NO	15.6	NO
Dining room floor	2	NO	22.5	NO
Solid floors	0.58	NO	36	NO
Intermediate floor	1.4	NO	12	NO
External door	3	NO	11.25	NO

Window/Rooflight constructions			
Name	U-value [W/m2K]	Solar transmittance	Light transmittance
Sash with shutters	1.8	0.85	0.9
Single glazed sashes	4.3	0.85	0.9
Rooflights	3.124	0.7	0.7

Project building services	
Electric power factor	<0.9
Submetering and M&T for lighting systems	NO
Emission factor for district heating [kgCO ₂ /kWh]	0.293
Primary energy factor for district heating [kWh/kWh]	1.2

Notes

Hot water systems	
Name	Main hot water
Generator Type	Using Central Heating boiler
Fuel type	Natural Gas
Seasonal efficiency	0.9
Uses CHP	NO
Storage system	NO
Storage volume [litres]	-
Insulation thickness [mm]	-
Secondary circulation	-
Circulation losses [W/m]	-
Pump power [kW]	-
Loop length [m]	-

Notes

Heating, ventilation, and air conditioning systems			
Name	Zones without HVAC system	Main boiler	Dining room stove + main boiler
Type	No Heating or Cooling	Central heating using water: radiators	Central heating using water: radiators
Heat source	-	LTHW boiler	LTHW boiler
Heating fuel type	-	Natural Gas	Natural Gas
Heating seasonal efficiency	-	0.9	0.887324
Uses CHP	-	NO	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	NO
Heating - Central time control	-	YES	YES
Heating - Optimum stop/start control	-	NO	YES
Heating - Local time control	-	NO	YES
Heating - Local temperature control	-	YES	YES
Heating - Weather compensation control	-	NO	YES

Notes

Heating, ventilation, and air conditioning systems - continued

Name	Lving room stove + main boiler
Type	Central heating using water: radiators
Heat source	LTHW boiler
Heating fuel type	Natural Gas
Heating seasonal efficiency	0.863014
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: Hall	Activity: Domestic Circulation	Multiplier: 1
Area [m2]: 18	Height [m]: 2.12	Air permeability @ 50pa [m3/hm2]: 13

HVAC system, ventilation, and exhaust	
Name	Zones without HVAC system
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	LED
Air-extracting luminaires	NO
Controls	MANUAL
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	Main hot water
Dead leg length in this zone [m]	0

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	0.12
Wall-ground floor	1.725	0.16
Wall-wall (corner)	0.375	0.09
Wall-not ground floor	0.04	0.07
Lintel (window/door)	1.905	0.3
Sill (window)	1.905	0.04
Jamb (window/door)	1.905	0.05

Shell & core	
Shell area for fit-out	-

Envelopes							
(Multiplier) Name	(1) Hall/s	(1) Hall/e	(1) Hall/ni	(1) Hall/w1	(1) Hall/ce	(1) Hall/fi	(1) Hall/w2
Type	Wall	Wall	Wall	Wall	Floor or Ceiling	Floor or Ceiling	Wall
Area [m2]	1.7	15.65	5.17	6.36	18	18	9.29
Orientation	South	East	North	West	Horizontal	Horizontal	West
Adjacent space	Same	Same	Conditioned	Same	Same	Underground	Exterior
Construction name	Upstairs partition	Downstairs partition	Party wall	Downstairs partition	Intermediate floor	Solid floors	Exterior wall

Notes

Zone name: Utility room	Activity: Laundry	Multiplier: 1
Area [m2]: 7.12	Height [m]: 2.4	Air permeability @ 50pa [m3/hm2]: 13

HVAC system, ventilation, and exhaust	
Name	Zones without HVAC system
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	LED
Air-extracting luminaires	NO
Controls	MANUAL
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	Main hot water
Dead leg length in this zone [m]	0

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	0.12
Wall-ground floor	1.725	0.16
Wall-wall (corner)	0.375	0.09
Wall-not ground floor	0.04	0.07
Lintel (window/door)	1.905	0.3
Sill (window)	1.905	0.04
Jamb (window/door)	1.905	0.05

Shell & core	
Shell area for fit-out	-

Envelopes						
(Multiplier) Name	(1) Utility room/s	(1) Utility room/e	(1) Utility room/n	(1) Utility room/w	(1) Utility room/ce	(1) Utility room/f
Type	Wall	Wall	Wall	Wall	Floor or Ceiling	Floor or Ceiling
Area [m2]	5.21	7.87	1.7	7.87	7.12	7.12
Orientation	South	East	North	West	Horizontal	Horizontal
Adjacent space	Exterior	Same	Same	Exterior	Same	Underground
Construction name	Exterior wall	Downstairs partition	Upstairs partition	Exterior wall	Intermediate floor	Solid floors

Notes

Zone name: Master bedroom	Activity: Domestic Bedroom	Multiplier: 1
Area [m2]: 25.38	Height [m]: 2.28	Air permeability @ 50pa [m3/hm2]: 13

HVAC system, ventilation, and exhaust	
Name	Zones without HVAC system
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)]	-

Envelopes						
(Multiplier) Name	(1) Master bedroom/s	(1) Master bedroom/e	(1) Master bedroom/ni	(1) Master bedroom/w	(1) Master bedroom/c	(1) Master bedroom/fe
Type	Wall	Wall	Wall	Wall	Pitched roof	Floor or Ceiling
Area [m2]	11.17	11.81	11.17	11.81	25.38	25.38
Orientation	South	East	North	West	Horizontal	Horizontal
Adjacent space	Same	Exterior	Conditioned	Same	Exterior	Same
Construction name	Upstairs partition	Exterior wall	Party wall	Upstairs partition	Main roof	Intermediate floor

Windows & rooflights	
(Multiplier) Name	(1) Master bedroom/e/window
In envelope	Master bedroom/e
Area [m2]	2.89
Glazing name	Single glazed sashes
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1
Frame / Aspect ratios	0.3 / 0.6

General Lighting and controls	
Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	LED
Air-extracting luminaires	NO
Controls	MANUAL
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	Main hot water
Dead leg length in this zone [m]	0

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	0.12
Wall-ground floor	1.725	0.16
Wall-wall (corner)	0.375	0.09
Wall-not ground floor	0.04	0.07
Lintel (window/door)	1.905	0.3
Sill (window)	1.905	0.04
Jamb (window/door)	1.905	0.05

Shell & core	
Shell area for fit-out	-

Notes

Zone name: Kitchen	Activity: Domestic Kitchen	Multiplier: 1
Area [m2]: 10.85	Height [m]: 2.71	Air permeability @ 50pa [m3/hm2]: 13

HVAC system, ventilation, and exhaust	
Name	Main boiler
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	LED
Air-extracting luminaires	NO
Controls	MANUAL
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	Main hot water
Dead leg length in this zone [m]	0

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	0.12
Wall-ground floor	1.725	0.16
Wall-wall (corner)	0.375	0.09
Wall-not ground floor	0.04	0.07
Lintel (window/door)	1.905	0.3
Sill (window)	1.905	0.04
Jamb (window/door)	1.905	0.05

Shell & core	
Shell area for fit-out	-

Envelopes								
(Multiplier) Name	(1) Kitchen/s1	(1) Kitchen/e	(1) Kitchen/n1	(1) Kitchen/w	(1) Kitchen/c	(1) Kitchen/f	(1) Kitchen/s2	(1) Kitchen/n2
Type	Wall	Wall	Wall	Wall	Pitched roof	Floor or Ceiling	Wall	Wall
Area [m2]	5.23	8.45	5.23	5.4	10.18	10.85	6.04	6.04
Orientation	South	East	North	West	Horizontal	Horizontal	South	North
Adjacent space	Exterior	Same	Exterior	Exterior	Exterior	Underground	Exterior	Exterior
Construction name	Kitchen wall	Downstairs partition	Kitchen wall	Kitchen wall	Kitchen roof	Solid floors	Kitchen wall	Kitchen wall

Windows & rooflights	
(Multiplier) Name	(2) Kitchen/c/rooflights
In envelope	Kitchen/c
Area [m2]	0.35
Glazing name	Rooflights
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1
Frame / Aspect ratios	0.1 / 0.7

Doors	
(Multiplier) Name	(1) Back door
In envelope	Kitchen/s1
Area [m2]	1.72
Type	Personnel
Construction name	External door

Notes

Zone name: Landing	Activity: Domestic Circulation	Multiplier: 1
Area [m2]: 18.82	Height [m]: 2.36	Air permeability @ 50pa [m3/hm2]: 13

HVAC system, ventilation, and exhaust	
Name	Main boiler
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	Fluorescent - compact
Air-extracting luminaires	NO
Controls	MANUAL
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	Main hot water
Dead leg length in this zone [m]	0

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	0.12
Wall-ground floor	1.725	0.16
Wall-wall (corner)	0.375	0.09
Wall-not ground floor	0.04	0.07
Lintel (window/door)	1.905	0.3
Sill (window)	1.905	0.04
Jamb (window/door)	1.905	0.05

Shell & core	
Shell area for fit-out	-

Envelopes										
(Multiplier) Name	(1) Landing/s1	(1) Landing/e1	(1) Landing/ni1	(1) Landing/w1	(1) Landing/c	(1) Landing/fe	(1) Landing/e2	(1) Landing/ni2	(1) Landing/s2	(1) Landing/w2
Type	Wall	Wall	Wall	Wall	Pitched roof	Floor or Ceiling	Wall	Wall	Wall	Wall
Area [m2]	5.24	20.57	5.25	13.76	18.82	18.82	5.28	3.47	3.47	5.28
Orientation	South	East	North	West	Horizontal	Horizontal	East	North	South	West
Adjacent space	Same	Same	Conditioned	Exterior	Exterior	Same	Same	Same	Same	Same
Construction name	Upstairs partition	Upstairs partition	Party wall	Exterior wall	Main roof	Intermediate floor	Upstairs partition	Upstairs partition	Upstairs partition	Upstairs partition

Windows & rooflights	
(Multiplier) Name	(2) Landing/c/rooflights
In envelope	Landing/c
Area [m2]	0.35
Glazing name	Rooflights
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1
Frame / Aspect ratios	0.1 / 0.7

Notes

Zone name: Bathroom	Activity: Domestic Bathroom	Multiplier: 1
Area [m2]: 8.1	Height [m]: 1.9	Air permeability @ 50pa [m3/hm2]: 13

HVAC system, ventilation, and exhaust	
Name	Main boiler
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)]	-

Envelopes						
(Multiplier) Name	(1) Bathroom/s	(1) Bathroom/e	(1) Bathroom/n	(1) Bathroom/w	(1) Bathroom/c	(1) Bathroom/fe
Type	Wall	Wall	Wall	Wall	Pitched roof	Floor or Ceiling
Area [m2]	4.2	8.46	2.4	5.44	8.1	8.1
Orientation	South	East	North	West	Horizontal	Horizontal
Adjacent space	Exterior	Same	Same	Exterior	Exterior	Same
Construction name	Exterior wall	Upstairs partition	Upstairs partition	Exterior wall	Main roof	Intermediate floor

Windows & rooflights	
(Multiplier) Name	(1) Bathroom/c/rooflight
In envelope	Bathroom/c
Area [m2]	0.35
Glazing name	Rooflights
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1
Frame / Aspect ratios	0.1 / 0.7

General Lighting and controls	
Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	LED
Air-extracting luminaires	NO
Controls	MANUAL
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	Main hot water
Dead leg length in this zone [m]	0

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	0.12
Wall-ground floor	1.725	0.16
Wall-wall (corner)	0.375	0.09
Wall-not ground floor	0.04	0.07
Lintel (window/door)	1.905	0.3
Sill (window)	1.905	0.04
Jamb (window/door)	1.905	0.05

Shell & core	
Shell area for fit-out	-

Notes

Zone name: Small bedroom	Activity: Domestic Bedroom	Multiplier: 1
Area [m2]: 8.47	Height [m]: 2.45	Air permeability @ 50pa [m3/hm2]: 13

HVAC system, ventilation, and exhaust	
Name	Main boiler
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)]	-

Envelopes						
(Multiplier) Name	(1) Small bedroom/s	(1) Small bedroom/e	(1) Small bedroom/n	(1) Small bedroom/w	(1) Small bedroom/c	(1) Small bedroom/fe
Type	Wall	Wall	Wall	Wall	Pitched roof	Floor or Ceiling
Area [m2]	5.49	9.26	5.49	9.26	8.47	8.47
Orientation	South	East	North	West	Horizontal	Horizontal
Adjacent space	Same	Exterior	Same	Same	Exterior	Same
Construction name	Upstairs partition	Exterior wall	Upstairs partition	Upstairs partition	Main roof	Intermediate floor

Windows & rooflights	
(Multiplier) Name	(1) Small bedroom/e/window
In envelope	Small bedroom/e
Area [m2]	1.49
Glazing name	Single glazed sashes
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1
Frame / Aspect ratios	0.3 / 0.8

General Lighting and controls	
Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	LED
Air-extracting luminaires	NO
Controls	MANUAL
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	Main hot water
Dead leg length in this zone [m]	0

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	0.12
Wall-ground floor	1.725	0.16
Wall-wall (corner)	0.375	0.09
Wall-not ground floor	0.04	0.07
Lintel (window/door)	1.905	0.3
Sill (window)	1.905	0.04
Jamb (window/door)	1.905	0.05

Shell & core	
Shell area for fit-out	-

Notes

Zone name: South Bedroom	Activity: Domestic Bedroom	Multiplier: 1
Area [m2]: 13.97	Height [m]: 2.41	Air permeability @ 50pa [m3/hm2]: 13

HVAC system, ventilation, and exhaust	
Name	Main boiler
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)]	-

Envelopes						
(Multiplier) Name	(1) South Bedroom/s	(1) South Bedroom/e	(1) South Bedroom/n	(1) South Bedroom/w	(1) South Bedroom/c	(1) South Bedroom/fe
Type	Wall	Wall	Wall	Wall	Pitched roof	Floor or Ceiling
Area [m2]	6.84	11.86	6.84	11.86	13.97	13.97
Orientation	South	East	North	West	Horizontal	Horizontal
Adjacent space	Exterior	Exterior	Same	Same	Exterior	Same
Construction name	Exterior wall	Exterior wall	Upstairs partition	Upstairs partition	Main roof	Intermediate floor

Windows & rooflights	
(Multiplier) Name	(1) South Bedroom/e/window
In envelope	South Bedroom/e
Area [m2]	1.41
Glazing name	Single glazed sashes
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1
Frame / Aspect ratios	0.3 / 0.8

General Lighting and controls	
Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	LED
Air-extracting luminaires	NO
Controls	MANUAL
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	Main hot water
Dead leg length in this zone [m]	0

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	0.12
Wall-ground floor	1.725	0.16
Wall-wall (corner)	0.375	0.09
Wall-not ground floor	0.04	0.07
Lintel (window/door)	1.905	0.3
Sill (window)	1.905	0.04
Jamb (window/door)	1.905	0.05

Shell & core	
Shell area for fit-out	-

Notes

Zone name: Dining room	Activity: Domestic Dining room	Multiplier: 1
Area [m2]: 27.96	Height [m]: 2.56	Air permeability @ 50pa [m3/hm2]: 13

HVAC system, ventilation, and exhaust	
Name	Dining room stove + main boiler
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)]	-

Envelopes						
(Multiplier) Name	(1) Dining room/s	(1) Dining room/e	(1) Dining room/ni	(1) Dining room/w	(1) Dining room/ce	(1) Dining room/fi
Type	Wall	Wall	Wall	Wall	Floor or Ceiling	Floor or Ceiling
Area [m2]	12.65	14.49	12.65	14.49	27.96	27.96
Orientation	South	East	North	West	Horizontal	Horizontal
Adjacent space	Same	Exterior	Conditioned	Same	Same	Unheated
Construction name	Downstairs partition	Exterior wall	Party wall	Downstairs partition	Intermediate floor	Dining room floor

Windows & rooflights	
(Multiplier) Name	(1) Dining room/e/window
In envelope	Dining room/e
Area [m2]	2.93
Glazing name	Single glazed sashes
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1
Frame / Aspect ratios	0.3 / 0.4

Doors	
(Multiplier) Name	(1) Front door
In envelope	Dining room/e
Area [m2]	2.17
Type	Personnel
Construction name	External door

General Lighting and controls	
Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	LED
Air-extracting luminaires	NO
Controls	MANUAL
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	Main hot water
Dead leg length in this zone [m]	0

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	0.12
Wall-ground floor	1.725	0.16
Wall-wall (corner)	0.375	0.09
Wall-not ground floor	0.04	0.07
Lintel (window/door)	1.905	0.3
Sill (window)	1.905	0.04
Jamb (window/door)	1.905	0.05

Shell & core	
Shell area for fit-out	-

Notes

Zone name: Living room	Activity: Domestic Lounge	Multiplier: 1
Area [m2]: 19.19	Height [m]: 2.45	Air permeability @ 50pa [m3/hm2]: 13

HVAC system, ventilation, and exhaust	
Name	Lving room stove + main boiler
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)]	-

Envelopes						
(Multiplier) Name	(1) Living room/s	(1) Living room/e	(1) Living room/n	(1) Living room/w	(1) Living room/ce	(1) Living room/f
Type	Wall	Wall	Wall	Wall	Floor or Ceiling	Floor or Ceiling
Area [m2]	11.93	9.65	11.93	9.65	19.19	19.19
Orientation	South	East	North	West	Horizontal	Horizontal
Adjacent space	Exterior	Exterior	Same	Same	Same	Underground
Construction name	Exterior wall	Exterior wall	Downstairs partition	Downstairs partition	Intermediate floor	Solid floors

Windows & rooflights	
(Multiplier) Name	(1) Living room/e/window
In envelope	Living room/e
Area [m2]	3.25
Glazing name	Sash with shutters
Shading position	None (no shading)
Shading colour	-
Shading translucency	-
Transmission factor	1
Frame / Aspect ratios	0.3 / 0.4

General Lighting and controls	
Total wattage [W]	-
Design illuminance [Lux]	-
Lamp and ballast efficacy [Lumens/W]	-
Light output ratio	-
Lamp type	LED
Air-extracting luminaires	NO
Controls	MANUAL
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	Main hot water
Dead leg length in this zone [m]	0

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	0.12
Wall-ground floor	1.725	0.16
Wall-wall (corner)	0.375	0.09
Wall-not ground floor	0.04	0.07
Lintel (window/door)	1.905	0.3
Sill (window)	1.905	0.04
Jamb (window/door)	1.905	0.05

Shell & core	
Shell area for fit-out	-

Notes