

BRUKL Output Document



Compliance with England Building Regulations Part L 2021

Project name

**23-085 Exemplar, Irwell Street, Bury
SBEM (Planning) Rev1**

As designed

Date: Sun Mar 17 10:40:40 2024

Administrative information

Building Details

Address: Exemplar Care Home, Irwell Street, BURY,

Certifier details

Name: Mark Iles

Telephone number: 0191 4956250

Address: Metropolitan House, Longrigg Road, Swalwell,
Gateshead, NE16 3AS

Certification tool

Calculation engine: SBEM

Calculation engine version: v6.1.d.0

Interface to calculation engine: Energy Simulator

Interface to calculation engine version: 10.10.0.199

BRUKL compliance module version: v6.1.d.0

Foundation area [m²]: 949.53

The CO₂ emission and primary energy rates of the building must not exceed the targets

Target CO ₂ emission rate (TER), kgCO ₂ /m ² annum	46.45
Building CO ₂ emission rate (BER), kgCO ₂ /m ² annum	45.51
Target primary energy rate (TPER), kWh/m ² annum	282.9
Building primary energy rate (BPER), kWh/m ² annum	280.01
Do the building's emission and primary energy rates exceed the targets?	BER ≤ TER BPER ≤ TPER

The performance of the building fabric and fixed building services should achieve reasonable overall standards of energy efficiency

Fabric element	U _{a-Limit}	U _{a-Calc}	U _{i-Calc}	First surface with maximum value
Walls*	0.26	0.26	0.26	Wall 1
Floors	0.18	0.18	0.18	Exposed Floor 1
Pitched roofs	0.16	-	-	No heat loss pitched roofs
Flat roofs	0.18	0.15	0.15	Exposed Roof 1
Windows** and roof windows	1.6	1.4	1.4	Window 1
Rooflights***	2.2	-	-	No external rooflights
Personnel doors^	1.6	1.4	1.4	Door 1 (Personnel Door)
Vehicle access & similar large doors	1.3	-	-	No external vehicle access doors
High usage entrance doors	3	-	-	No external high usage entrance doors

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

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

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

* 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.

*** Values for rooflights refer to the horizontal position.

^ For fire doors, limiting U-value is 1.8 W/m²K

NB: Neither roof ventilators (inc. smoke vents) nor swimming pool basins are modelled or checked against the limiting standards by the tool.

Air permeability	Limiting standard	This building
m ³ /(h.m ²) at 50 Pa	8	6

Building services

For details on the standard values listed below, system-specific guidance, and additional regulatory requirements, refer to the Approved Documents.

Whole building lighting automatic monitoring & targeting with alarms for out-of-range values	NO
Whole building electric power factor achieved by power factor correction	<0.9

1- HVAC for zone 1 - BEDROOMS

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	3.35	-	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

2- HVAC for zone 2 - WET ROOMS

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	3.35	-	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

3- HVAC for zone 3 - STORES

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	3.35	-	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

4- HVAC for zone 4 - COMMON ROOMS

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	4	6	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

5- HVAC for zone 5 - KITCHEN

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	3.35	-	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

6- HVAC for zone 6 - OFFICES

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	3.35	-	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

7- HVAC for zone 7 - CIRCULATION

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	3.35	-	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

8- HVAC for zone 8 - LAUNDRY

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	3.35	-	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

9- HVAC for zone 9 - DRUGS STORES

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	4	6	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

10- HVAC for zone 10 - RECEPTION

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	3.35	-	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

11- HVAC for zone 11 - STAFF ROOM

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	3.35	-	-	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					NO
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

1- HOT WATER

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	0.95	0.001
Standard value	0.91	N/A

Zone-level mechanical ventilation, exhaust, and terminal units

ID	System type in the Approved Documents
A	Local supply or extract ventilation units
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 balanced supply and extract ventilation system
E	Local balanced supply and extract ventilation units
F	Other local ventilation units
G	Fan assisted terminal variable air volume units
H	Fan coil units
I	Kitchen extract with the fan remote from the zone and a grease filter
NB: Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.	

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	2.3	2	0.5	0.5	0.4	1		Zone	Standard
0-BATH1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-WC1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-WC2	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-KITCHENWC	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-CHANGING	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-SHOWER	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-BATH1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-WC1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-BATH2	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-WC2	0.2	-	-	-	-	-	-	-	-	-	-	N/A
2-BATH1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
2-WC1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-QUIET1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-LOUNGE1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-DINING1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-THERAPY	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-HUB	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-QUIET1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-LOUNGE1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-DINING1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-LOUNGE2	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-QUIET2	0.2	-	-	-	-	-	-	-	-	-	-	N/A
2-QUIET1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
2-LOUNGE1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
2-DINING1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-DINING2	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-KITCHEN	-	-	-	-	-	-	-	-	0.8	-	-	N/A
0-DRUGS1	0.2	-	-	-	-	-	-	-	-	-	-	N/A
0-DRUGS2	0.2	-	-	-	-	-	-	-	-	-	-	N/A
1-DRUGS1	0.2	-	-	-	-	-	-	-	-	-	-	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	2.3	2	0.5	0.5	0.4	1	Zone	Standard
1-DRUGS3	0.2	-	-	-	-	-	-	-	-	-	N/A
2-DRUGS1	0.2	-	-	-	-	-	-	-	-	-	N/A
0-STAFFROOM	0.2	-	-	-	-	-	-	-	-	-	N/A

General lighting and display lighting		General luminaire	Display light source	
Zone name		Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
	Standard value	95	80	0.3
0-BED1		95	-	-
0-BED2		95	-	-
0-BED3		95	-	-
0-BED4		95	-	-
0-BED5		95	-	-
0-BED6		95	-	-
0-BED7		95	-	-
0-BED8		95	-	-
0-BED9		95	-	-
0-BED10		95	-	-
0-VISITORS		95	-	-
1-BED11		95	-	-
1-BED12		95	-	-
1-BED13		95	-	-
1-BED14		95	-	-
1-BED15		95	-	-
1-BED16		95	-	-
1-BED17		95	-	-
1-BED18		95	-	-
1-BED19		95	-	-
1-BED20		95	-	-
1-BED22		95	-	-
1-BED23		95	-	-
1-BED24		95	-	-
1-BED25		95	-	-
1-BED26		95	-	-
1-BED27		95	-	-
1-BED28		95	-	-
1-BED29		95	-	-
1-BED30		95	-	-
2-BED31		95	-	-
2-BED32		95	-	-
2-BED33		95	-	-
2-BED34		95	-	-
2-BED35		95	-	-
2-BED36		95	-	-

General lighting and display lighting		General luminaire	Display light source	
Zone name		Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m ²]
	Standard value	95	80	0.3
2-BED37		95	-	-
2-BED38		95	-	-
2-BED39		95	-	-
2-BED40		95	-	-
1-BED21		95	-	-
0-BATH1		95	-	-
0-WC1		95	-	-
0-WC2		95	-	-
0-KITCHENWC		95	-	-
0-CHANGING		95	-	-
0-SHOWER		95	-	-
1-BATH1		95	-	-
1-WC1		95	-	-
1-BATH2		95	-	-
1-WC2		95	-	-
2-BATH1		95	-	-
2-WC1		95	-	-
0-DRYSTORE		95	-	-
0-PLANT		95	-	-
0-SLUICE		95	-	-
0-ST1		95	-	-
1-SLUICE		95	-	-
1-ST1		95	-	-
1-COMMS		95	-	-
1-HOIST		95	-	-
1-ST2		95	-	-
2-SLUICE		95	-	-
2-ST1		95	-	-
2-HOIST		95	-	-
2-CLEANER		95	-	-
0-QUIET1		95	-	-
0-LOUNGE1		95	-	-
0-DINING1		95	-	-
0-THERAPY		95	-	-
0-HUB		95	-	-
1-QUIET1		95	-	-
1-LOUNGE1		95	-	-
1-DINING1		95	-	-
1-LOUNGE2		95	-	-
1-QUIET2		95	-	-
2-QUIET1		95	-	-
2-LOUNGE1		95	-	-
2-DINING1		95	-	-

General lighting and display lighting		General luminaire	Display light source	
Zone name		Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
	Standard value	95	80	0.3
1-DINING2		95	-	-
0-KITCHEN		95	-	-
0-NURSES1		95	-	-
0-TRAINING		95	-	-
0-CHM OFFICE		95	-	-
0-ADMIN		95	-	-
0-CNM OFFICE		95	-	-
0-CONSULTATION		95	-	-
1-NURSES1		95	-	-
1-NURSES2		95	-	-
2-NURSES1		95	-	-
0-STAIR1		100	-	-
0-STAIR2		100	-	-
0-STAIR3		100	-	-
0-CORR1		100	-	-
0-CORR2		100	-	-
0-CORR3		100	-	-
0-CORR4		100	-	-
0-CORR5		100	-	-
0-CORR6		100	-	-
0-CORR7		100	-	-
0-CORR8		100	-	-
1-STAIR1		100	-	-
1-STAIR2		100	-	-
1-STAIR3		100	-	-
1-CORR1		100	-	-
1-CORR2		100	-	-
1-CORR3		100	-	-
1-CORR4		100	-	-
1-CORR5		100	-	-
1-CORR6		100	-	-
1-CORR7		100	-	-
2-STAIR2		100	-	-
2-STAIR3		100	-	-
2-CORR1		100	-	-
2-CORR2		100	-	-
2-CORR3		100	-	-
2-CORR4		100	-	-
0-LAUNDRY		95	-	-
0-DRUGS1		95	-	-
0-DRUGS2		95	-	-
1-DRUGS1		95	-	-
1-DRUGS3		95	-	-

General lighting and display lighting		General luminaire	Display light source	
Zone name		Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m ²]
	Standard value	95	80	0.3
2-DRUGS1		95	-	-
0-RECEPTION		95	95	1.421
0-ENTRANCE		95	-	-
0-STAFFROOM		95	-	-

The spaces in the building should have appropriate passive control measures to limit solar gains in summer

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
0-BED1	NO (-22%)	NO
0-BED2	NO (-22%)	NO
0-BED3	NO (-12.8%)	NO
0-BED4	NO (-40.6%)	NO
0-BED5	NO (-40.6%)	NO
0-BED6	NO (-49.8%)	NO
0-BED7	NO (-49.8%)	NO
0-BED8	NO (-47.4%)	NO
0-BED9	NO (-47.4%)	NO
0-BED10	NO (-77%)	NO
0-VISITORS	NO (-8.6%)	NO
1-BED11	NO (-41%)	NO
1-BED12	NO (-41%)	NO
1-BED13	NO (-34.1%)	NO
1-BED14	NO (-55.1%)	NO
1-BED15	NO (-55.1%)	NO
1-BED16	NO (-62.1%)	NO
1-BED17	NO (-62.1%)	NO
1-BED18	NO (-60.2%)	NO
1-BED19	NO (-60.2%)	NO
1-BED20	NO (-82.6%)	NO
1-BED22	NO (-34.2%)	NO
1-BED23	NO (-34.2%)	NO
1-BED24	NO (-34.2%)	NO
1-BED25	NO (-34.2%)	NO
1-BED26	NO (-30.9%)	NO
1-BED27	NO (-30.9%)	NO
1-BED28	NO (-30.9%)	NO
1-BED29	NO (-31.3%)	NO
1-BED30	NO (-34.2%)	NO
2-BED31	NO (-41%)	NO
2-BED32	NO (-41%)	NO
2-BED33	NO (-34.1%)	NO
2-BED34	NO (-55.1%)	NO
2-BED35	NO (-55.1%)	NO
2-BED36	NO (-62.1%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
2-BED37	NO (-62.1%)	NO
2-BED38	NO (-60.2%)	NO
2-BED39	NO (-60.2%)	NO
2-BED40	NO (-82.6%)	NO
1-BED21	N/A	N/A
0-QUIET1	NO (-75.9%)	NO
0-LOUNGE1	NO (-48.6%)	NO
0-DINING1	NO (-1.8%)	NO
0-THERAPY	NO (-31.1%)	NO
0-HUB	NO (-2.6%)	NO
1-QUIET1	NO (-81.8%)	NO
1-LOUNGE1	NO (-48.6%)	NO
1-DINING1	NO (-1.8%)	NO
1-LOUNGE2	NO (-6.8%)	NO
1-QUIET2	NO (-62.6%)	NO
2-QUIET1	NO (-81.8%)	NO
2-LOUNGE1	NO (-74.3%)	NO
2-DINING1	NO (-1.8%)	NO
1-DINING2	NO (-79.3%)	NO
0-NURSES1	N/A	N/A
0-TRAINING	NO (-55.7%)	NO
0-CHM OFFICE	NO (-55.4%)	NO
0-ADMIN	NO (-56.3%)	NO
0-CNM OFFICE	NO (-32.8%)	NO
0-CONSULTATION	N/A	N/A
1-NURSES1	N/A	N/A
1-NURSES2	N/A	N/A
2-NURSES1	N/A	N/A
0-DRUGS1	N/A	N/A
0-DRUGS2	N/A	N/A
1-DRUGS1	N/A	N/A
1-DRUGS3	N/A	N/A
2-DRUGS1	N/A	N/A
0-RECEPTION	N/A	N/A
0-STAFFROOM	NO (-13.5%)	NO

Regulation 25A: Consideration of high efficiency alternative energy systems

Were alternative energy systems considered and analysed as part of the design process?	YES
Is evidence of such assessment available as a separate submission?	NO
Are any such measures included in the proposed design?	YES

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

	Actual	Notional
Floor area [m ²]	2848.6	2848.6
External area [m ²]	3414.5	3414.5
Weather	MAN	MAN
Infiltration [m ³ /hm ² @ 50Pa]	6	3
Average conductance [W/K]	1008.64	1171.59
Average U-value [W/m ² K]	0.3	0.34
Alpha value* [%]	27.11	23.43

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

Building Use

% Area Building Type

Retail/Financial and Professional Services
 Restaurants and Cafes/Drinking Establishments/Takeaways
 Offices and Workshop Businesses
 General Industrial and Special Industrial Groups
 Storage or Distribution
 Hotels

100 Residential Institutions: Hospitals and Care Homes

Residential Institutions: Residential Schools
 Residential Institutions: Universities and Colleges
 Secure Residential Institutions
 Residential Spaces
 Non-residential Institutions: Community/Day Centre
 Non-residential Institutions: Libraries, Museums, and Galleries
 Non-residential Institutions: Education
 Non-residential Institutions: Primary Health Care Building
 Non-residential Institutions: Crown and County Courts
 General Assembly and Leisure, Night Clubs, and Theatres
 Others: Passenger Terminals
 Others: Emergency Services
 Others: Miscellaneous 24hr Activities
 Others: Car Parks 24 hrs
 Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	17.2	19.07
Cooling	6.4	5.62
Auxiliary	7.21	5.25
Lighting	18.4	14.78
Hot water	184.45	191.56
Equipment*	43.9	43.9
TOTAL **	233.65	236.28

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

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

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	1.95	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
<i>Displaced electricity</i>	<i>1.95</i>	<i>0</i>

Energy & CO₂ Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m ²]	462.84	421.63
Primary energy [kWh/m ²]	280.01	282.9
Total emissions [kg/m ²]	45.51	46.45

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] Central heating using water: floor heating, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	183.3	133.3	17	0	5.2	2.99	0	3.35	0	
Notional	156.9	99.3	16.5	0	2.5	2.64	0	----	----	
[ST] Central heating using water: floor heating, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	223.9	83.8	20.8	0	9.8	2.99	0	3.35	0	
Notional	273.9	73.3	28.8	0	12.2	2.64	0	----	----	
[ST] Central heating using water: floor heating, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	58.1	53.6	5.4	0	3.3	2.99	0	3.35	0	
Notional	46.3	41.6	4.9	0	1.6	2.64	0	----	----	
[ST] Split or multi-split system, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	290.6	559.9	21.7	36.5	0.5	3.73	4.26	4	6	
Notional	294.2	508.6	31	32.1	0.9	2.64	4.4	----	----	
[ST] Central heating using water: floor heating, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	136.8	2144.1	12.7	0	170.6	2.99	0	3.35	0	
Notional	122.3	2079.4	12.9	0	126.8	2.64	0	----	----	
[ST] Central heating using water: floor heating, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	82.1	508.9	7.6	0	3.1	2.99	0	3.35	0	
Notional	66.1	465.4	7	0	1.5	2.64	0	----	----	
[ST] Central heating using water: floor heating, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	217.9	148.9	20.3	0	5.3	2.99	0	3.35	0	
Notional	196.7	151.6	20.7	0	2.5	2.64	0	----	----	
[ST] Central heating using water: floor heating, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	27.9	613.9	2.6	0	3.1	2.99	0	3.35	0	
Notional	16.9	546.6	1.8	0	1.5	2.64	0	----	----	
[ST] Split or multi-split system, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	56.2	52	4.2	3.4	5.5	3.73	4.26	4	6	
Notional	45.2	40.2	4.8	2.5	11	2.64	4.4	----	----	
[ST] Central heating using water: floor heating, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	102.6	280	9.5	0	2.9	2.99	0	3.35	0	
Notional	83.1	234.2	8.7	0	1.4	2.64	0	----	----	
[ST] Central heating using water: floor heating, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	92.4	490.8	8.6	0	6.1	2.99	0	3.35	0	
Notional	82.2	416.9	8.7	0	7.6	2.64	0	----	----	

Key to terms

Heat dem [MJ/m2]	= Heating energy demand
Cool dem [MJ/m2]	= Cooling energy demand
Heat con [kWh/m2]	= Heating energy consumption
Cool con [kWh/m2]	= Cooling energy consumption
Aux con [kWh/m2]	= Auxiliary energy consumption
Heat SSEFF	= Heating system seasonal efficiency (for notional building, value depends on activity glazing class)
Cool SSEER	= Cooling system seasonal energy efficiency ratio
Heat gen SSEFF	= Heating generator seasonal efficiency
Cool gen SSEER	= Cooling generator seasonal energy efficiency ratio
ST	= System type
HS	= Heat source
HFT	= Heating fuel type
CFT	= Cooling fuel type