

Project name

CoLiving Part L GREEN

As designed

Date: Fri Oct 25 14:22:59 2024

Administrative information

Building Details

Address:

Certifier details

Name:

Telephone number:

Address: , ,

Certification tool

Calculation engine: Apache

Calculation engine version: 7.0.26

Interface to calculation engine: IES Virtual Environment

Interface to calculation engine version: 7.0.26

BRUKL compliance module version: v6.1.e.1

Foundation area [m²]: 1056.97

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	3.82
Building CO ₂ emission rate (BER), kgCO ₂ /m ² .annum	1.92
Target primary energy rate (TPER), kWh _{PE} /m ² .annum	41.15
Building primary energy rate (BPER), kWh _{PE} /m ² .annum	20.37
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	0.15	0.15	SP00001D:Surf[3]
Floors	0.18	0.15	0.15	SP00001D:Surf[0]
Pitched roofs	0.16	-	-	No pitched roofs in building
Flat roofs	0.18	0.15	0.15	SP00001D:Surf[16]
Windows** and roof windows	1.6	1.4	1.4	SP00001D:Surf[1]
Rooflights***	2.2	-	-	No roof lights in building
Personnel doors^	1.6	1.6	1.6	LM000054:Surf[0]
Vehicle access & similar large doors	1.3	-	-	No vehicle access doors in building
High usage entrance doors	3	-	-	No high usage entrance doors in building

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
m³/(h.m²) at 50 Pa	8	3

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	YES
Whole building electric power factor achieved by power factor correction	>0.95

1- Local MVHR with VRF (Amenity) - GREEN

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5.98	9.16	0	1.9	0.87
Standard value	2.5*	N/A	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					
^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.					

2- NV ASHP Rads (CoLiving)

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	3.13	-	0.2	-	-
Standard value	2.5*	N/A	N/A	N/A	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					

3- Central AHU VRF (CoLiving Amenity) - GREEN

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	5.98	9.16	0	1.9	0.87
Standard value	2.5*	N/A	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					
^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.					

4- Central AHU VRF (CoLiving Apts) - GREEN

	Heating efficiency	Cooling efficiency	Radiant efficiency	SFP [W/(l/s)]	HR efficiency
This system	6.19	9.16	0	0.52	0.9
Standard value	2.5*	N/A	N/A	2^	N/A
Automatic monitoring & targeting with alarms for out-of-range values for this HVAC system					YES
* Standard shown is for all types >12 kW output, except absorption and gas engine heat pumps.					
^ Limiting SFP may be increased by the amounts specified in the Approved Documents if the installation includes particular components.					

1- DHW ASHP (Co-Living) - GREEN

	Water heating efficiency	Storage loss factor [kWh/litre per day]
This building	3.13	0.005
Standard value	2*	N/A
* Standard shown is for all types except absorption and gas engine heat pumps.		

"No zones in project where local mechanical ventilation, exhaust, or terminal unit is applicable"

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
100 Co-Living Co-Working	130	-	-

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
L00 LV Switch Room		140	-	-
L00 Stairs		120	-	-
B0 - Co-working Space		130	-	-
B0 - Screen Room		110	-	-
B0 - Cold Water Storage		140	-	-
Basement - TBC		140	-	-
B0 - Laundry		130	-	-
B0 - Circulation		120	-	-
B0 - Store		140	-	-
B0 - Car Park & Sprinkler Tanks		140	-	-
B0 - Gym		130	-	-
B0 - ASHP Plant Room		140	-	-
B0 - Circulation		120	-	-
B0 - Cycle Store 1		140	-	-
B0 - Fan Room		140	-	-
B0 - Cycle Store2		140	-	-
Basement		140	-	-
B0 - Circulation		120	-	-
B0 - Sprinkler Tanks		140	-	-
B0 - Stair		120	-	-
B0 - Circulation		120	-	-
B0 - Car Park		140	-	-
L00 Circulation		120	-	-
L00 Co-living Refuse		140	-	-
L00 Comms Room		120	-	-
L00 Substation		140	-	-
L00 Circulation		120	-	-
L00 Stairs		120	-	-
L00 Circulation		120	-	-
L00 Refuse		140	-	-
L00 Circulation		120	-	-
L00 Store		140	-	-
LM-Co-living-Amenity-0LM		110	-	-
LM-Co-living-Circ-0LM		120	-	-
LM-Co-living-Circ-002		120	-	-
LM-Co-living-Circ-003		120	-	-
LM-Co-living-Circ-004		120	-	-
LM-Co-living-Lift-Lobby-0LM		120	-	-
LM-Co-living-Lift-Lobby-002		120	-	-
LM-Co-living-Lift-Lobby-003		120	-	-
LM-Co-living-Stair-0LM		120	-	-
LM-Co-living-Stair-002		120	-	-
LM-Co-living-Stair-003		120	-	-

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
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-002		110	-	-
LM-Co-living-Bedroom-003		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-004		110	-	-
LM-Co-living-Bedroom-005		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-006		110	-	-
LM-Co-living-Bedroom-007		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-008		110	-	-
LM-Co-living-Bedroom-009		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-0LM		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-002		110	-	-
LM-Co-living-Bedroom-LM0		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM1		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM2		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM3		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM4		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM5		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM6		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM7		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM8		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM9		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-020		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-021		110	-	-

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
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-022		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-023		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-003		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-025		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-026		110	-	-
LM-Co-living-Bedroom-027		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-028		110	-	-
LM-Co-living-Bedroom-029		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-030		110	-	-
LM-Co-living-Bedroom-031		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-032		110	-	-
LM-Co-living-Bedroom-033		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-034		110	-	-
LM-Co-living-Bedroom-035		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-004		110	-	-
LM-Co-living-Bedroom-036		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-038		110	-	-
Co-Living Bathroom		110	-	-
LM Co-living Bedroom 0LM		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM Co Living Bedroom 024		110	-	-
LM Co Living Bathroom		110	-	-
Co-Living Bedroom 037		110	-	-
LM-Co-living-Amenity-0LM		110	-	-
LM-Co-living-Circ-0LM		120	-	-

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
LM-Co-living-Circ-002		120	-	-
LM-Co-living-Circ-003		120	-	-
LM-Co-living-Circ-004		120	-	-
LM-Co-living-Lift-Lobby-0LM		120	-	-
LM-Co-living-Lift-Lobby-002		120	-	-
LM-Co-living-Lift-Lobby-003		120	-	-
LM-Co-living-Stair-0LM		120	-	-
LM-Co-living-Stair-002		120	-	-
LM-Co-living-Stair-003		120	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-002		110	-	-
LM-Co-living-Bedroom-003		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-004		110	-	-
LM-Co-living-Bedroom-005		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-006		110	-	-
LM-Co-living-Bedroom-007		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-008		110	-	-
LM-Co-living-Bedroom-009		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-0LM		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-002		110	-	-
LM-Co-living-Bedroom-LM0		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM1		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM2		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM3		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM4		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM5		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM6		110	-	-
Co-Living Bathroom		110	-	-

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
LM-Co-living-Bedroom-LM7		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM8		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM9		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-020		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-021		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-022		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-023		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-003		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-025		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-026		110	-	-
LM-Co-living-Bedroom-027		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-028		110	-	-
LM-Co-living-Bedroom-029		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-030		110	-	-
LM-Co-living-Bedroom-031		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-032		110	-	-
LM-Co-living-Bedroom-033		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-034		110	-	-
LM-Co-living-Bedroom-035		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-004		110	-	-
LM-Co-living-Bedroom-036		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-038		110	-	-

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
Co-Living Bathroom		110	-	-
LM Co-living Bedroom 0LM		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM Co Living Bedroom 024		110	-	-
LM Co Living Bathroom		110	-	-
Co-Living Bedroom 037		110	-	-
LM-Co-living-Amenity-0LM		110	-	-
LM-Co-living-Circ-0LM		120	-	-
LM-Co-living-Circ-002		120	-	-
LM-Co-living-Circ-003		120	-	-
LM-Co-living-Circ-004		120	-	-
LM-Co-living-Lift-Lobby-0LM		120	-	-
LM-Co-living-Lift-Lobby-002		120	-	-
LM-Co-living-Lift-Lobby-003		120	-	-
LM-Co-living-Stair-0LM		120	-	-
LM-Co-living-Stair-002		120	-	-
LM-Co-living-Stair-003		120	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-002		110	-	-
LM-Co-living-Bedroom-003		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-004		110	-	-
LM-Co-living-Bedroom-005		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-006		110	-	-
LM-Co-living-Bedroom-007		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-008		110	-	-
LM-Co-living-Bedroom-009		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-0LM		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-002		110	-	-
LM-Co-living-Bedroom-LM0		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM1		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM2		110	-	-

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
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM3		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM4		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM5		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM6		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM7		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM8		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM9		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-020		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-021		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-022		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-023		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-003		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-025		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-026		110	-	-
LM-Co-living-Bedroom-027		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-028		110	-	-
LM-Co-living-Bedroom-029		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-030		110	-	-
LM-Co-living-Bedroom-031		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-032		110	-	-
LM-Co-living-Bedroom-033		110	-	-
Co-Living Bathroom		110	-	-

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
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-034		110	-	-
LM-Co-living-Bedroom-035		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-004		110	-	-
LM-Co-living-Bedroom-036		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-038		110	-	-
Co-Living Bathroom		110	-	-
LM Co-living Bedroom 0LM		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM Co Living Bedroom 024		110	-	-
LM Co Living Bathroom		110	-	-
Co-Living Bedroom 037		110	-	-
LM-Co-living-Amenity-0LM		110	-	-
LM-Co-living-Circ-0LM		120	-	-
LM-Co-living-Circ-002		120	-	-
LM-Co-living-Circ-003		120	-	-
LM-Co-living-Circ-004		120	-	-
LM-Co-living-Lift-Lobby-0LM		120	-	-
LM-Co-living-Lift-Lobby-002		120	-	-
LM-Co-living-Lift-Lobby-003		120	-	-
LM-Co-living-Stair-0LM		120	-	-
LM-Co-living-Stair-002		120	-	-
LM-Co-living-Stair-003		120	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-002		110	-	-
LM-Co-living-Bedroom-003		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-004		110	-	-
LM-Co-living-Bedroom-005		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-006		110	-	-
LM-Co-living-Bedroom-007		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-008		110	-	-
LM-Co-living-Bedroom-009		110	-	-
Co-Living Bathroom		110	-	-

General lighting and display lighting		General luminaire		Display light source	
Zone name		Efficacy [lm/W]	Efficacy [lm/W]	Efficacy [lm/W]	Power density [W/m²]
	Standard value	95	80		0.3
Co-Living Bathroom		110	-		-
LM-Co-living-Accessible-Room-0LM		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Accessible-Room-002		110	-		-
LM-Co-living-Bedroom-LM0		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-LM1		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-LM2		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-LM3		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-LM4		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-LM5		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-LM6		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-LM7		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-LM8		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-LM9		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-020		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-021		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-022		110	-		-
Co-Living Bathroom		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-023		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Accessible-Room-003		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-025		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-026		110	-		-
LM-Co-living-Bedroom-027		110	-		-
Co-Living Bathroom		110	-		-
Co-Living Bathroom		110	-		-
LM-Co-living-Bedroom-028		110	-		-
LM-Co-living-Bedroom-029		110	-		-

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
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-030		110	-	-
LM-Co-living-Bedroom-031		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-032		110	-	-
LM-Co-living-Bedroom-033		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-034		110	-	-
LM-Co-living-Bedroom-035		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-004		110	-	-
LM-Co-living-Bedroom-036		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-038		110	-	-
Co-Living Bathroom		110	-	-
LM Co-living Bedroom 0LM		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM Co Living Bedroom 024		110	-	-
LM Co Living Bathroom		110	-	-
Co-Living Bedroom 037		110	-	-
LM-Co-living-Amenity-0LM		110	-	-
LM-Co-living-Circ-0LM		120	-	-
LM-Co-living-Circ-002		120	-	-
LM-Co-living-Circ-003		120	-	-
LM-Co-living-Circ-004		120	-	-
LM-Co-living-Lift-Lobby-0LM		120	-	-
LM-Co-living-Lift-Lobby-002		120	-	-
LM-Co-living-Lift-Lobby-003		120	-	-
LM-Co-living-Stair-0LM		120	-	-
LM-Co-living-Stair-002		120	-	-
LM-Co-living-Stair-003		120	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-002		110	-	-
LM-Co-living-Bedroom-003		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-004		110	-	-
LM-Co-living-Bedroom-005		110	-	-

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
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-006		110	-	-
LM-Co-living-Bedroom-007		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-008		110	-	-
LM-Co-living-Bedroom-009		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-0LM		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-002		110	-	-
LM-Co-living-Bedroom-LM0		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM1		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM2		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM3		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM4		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM5		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM6		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM7		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM8		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM9		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-020		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-021		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-022		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-023		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-003		110	-	-

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
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-025		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-026		110	-	-
LM-Co-living-Bedroom-027		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-028		110	-	-
LM-Co-living-Bedroom-029		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-030		110	-	-
LM-Co-living-Bedroom-031		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-032		110	-	-
LM-Co-living-Bedroom-033		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-034		110	-	-
LM-Co-living-Bedroom-035		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-004		110	-	-
LM-Co-living-Bedroom-036		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-038		110	-	-
Co-Living Bathroom		110	-	-
LM Co-living Bedroom 0LM		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM Co Living Bedroom 024		110	-	-
LM Co Living Bathroom		110	-	-
Co-Living Bedroom 037		110	-	-
LM-Co-living-Amenity-0LM		110	-	-
LM-Co-living-Circ-0LM		120	-	-
LM-Co-living-Circ-002		120	-	-
LM-Co-living-Circ-003		120	-	-
LM-Co-living-Circ-004		120	-	-
LM-Co-living-Lift-Lobby-0LM		120	-	-
LM-Co-living-Lift-Lobby-002		120	-	-
LM-Co-living-Lift-Lobby-003		120	-	-
LM-Co-living-Stair-0LM		120	-	-

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
LM-Co-living-Stair-002		120	-	-
LM-Co-living-Stair-003		120	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-002		110	-	-
LM-Co-living-Bedroom-003		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-004		110	-	-
LM-Co-living-Bedroom-005		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-006		110	-	-
LM-Co-living-Bedroom-007		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-008		110	-	-
LM-Co-living-Bedroom-009		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-0LM		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-002		110	-	-
LM-Co-living-Bedroom-LM0		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM1		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM2		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM3		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM4		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM5		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM6		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM7		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM8		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM9		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-020		110	-	-

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
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-021		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-022		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-023		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-003		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-025		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-026		110	-	-
LM-Co-living-Bedroom-027		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-028		110	-	-
LM-Co-living-Bedroom-029		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-030		110	-	-
LM-Co-living-Bedroom-031		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-032		110	-	-
LM-Co-living-Bedroom-033		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-034		110	-	-
LM-Co-living-Bedroom-035		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-004		110	-	-
LM-Co-living-Bedroom-036		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-038		110	-	-
Co-Living Bathroom		110	-	-
LM Co-living Bedroom 0LM		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM Co Living Bedroom 024		110	-	-
LM Co Living Bathroom		110	-	-
Co-Living Bedroom 037		110	-	-

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
LM-Co-living-Amenity-0LM		110	-	-
LM-Co-living-Circ-0LM		120	-	-
LM-Co-living-Circ-002		120	-	-
LM-Co-living-Circ-003		120	-	-
LM-Co-living-Circ-004		120	-	-
LM-Co-living-Lift-Lobby-0LM		120	-	-
LM-Co-living-Lift-Lobby-002		120	-	-
LM-Co-living-Lift-Lobby-003		120	-	-
LM-Co-living-Stair-0LM		120	-	-
LM-Co-living-Stair-002		120	-	-
LM-Co-living-Stair-003		120	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-002		110	-	-
LM-Co-living-Bedroom-003		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-004		110	-	-
LM-Co-living-Bedroom-005		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-006		110	-	-
LM-Co-living-Bedroom-007		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-008		110	-	-
LM-Co-living-Bedroom-009		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-0LM		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-002		110	-	-
LM-Co-living-Bedroom-LM0		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM1		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM2		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM3		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM4		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM5		110	-	-
Co-Living Bathroom		110	-	-

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
LM-Co-living-Bedroom-LM6		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM7		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM8		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM9		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-020		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-021		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-022		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-023		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-003		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-025		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-026		110	-	-
LM-Co-living-Bedroom-027		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-028		110	-	-
LM-Co-living-Bedroom-029		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-030		110	-	-
LM-Co-living-Bedroom-031		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-032		110	-	-
LM-Co-living-Bedroom-033		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-034		110	-	-
LM-Co-living-Bedroom-035		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Accessible-Room-004		110	-	-
LM-Co-living-Bedroom-036		110	-	-

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
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-038		110	-	-
Co-Living Bathroom		110	-	-
LM Co-living Bedroom 0LM		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM Co Living Bedroom 024		110	-	-
LM Co Living Bathroom		110	-	-
Co-Living Bedroom 037		110	-	-
LM-Co-living-Lift-Lobby-002		120	-	-
LM-Co-living-Lift-Lobby-003		120	-	-
LM-Co-living-Stair-002		120	-	-
LM-Co-living-Stair-003		120	-	-
LM-Co-living-Bedroom-LM3		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM4		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM5		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM6		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM7		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-025		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-026		110	-	-
LM-Co-living-Bedroom-027		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-028		110	-	-
LM-Co-living-Bedroom-029		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-030		110	-	-
LM-Co-living-Amenity-0LM		110	-	-
LM-Co-living-Lift-Lobby-002		120	-	-
LM-Co-living-Lift-Lobby-003		120	-	-
LM-Co-living-Stair-002		120	-	-
LM-Co-living-Stair-003		120	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM0		110	-	-

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
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM1		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM2		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM3		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM4		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM5		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM6		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM7		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-LM8		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-025		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-026		110	-	-
LM-Co-living-Bedroom-027		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-028		110	-	-
LM-Co-living-Bedroom-029		110	-	-
Co-Living Bathroom		110	-	-
Co-Living Bathroom		110	-	-
LM-Co-living-Bedroom-030		110	-	-
LM-Co-living-Circ-002		120	-	-
LM-Co-living-Bedroom-LM2		110	-	-
LM-Co-living-Bathroom		110	-	-
LM-Co-living-Accessible-Room-003		110	-	-
LM-Co-living-Circ-003		120	-	-
LM Co Living Bedroom 024		110	-	-
LM Co Living Bedroom 024		110	-	-
LM Co Living Bedroom 024		110	-	-
Co-Living Amenity Lounge		110	-	-
LM-Co-living-Circ-003		120	-	-
LM-Co-living-Circ-002		120	-	-
LM-Co-living-Accessible-Room-002		110	-	-
LM-Co-living-Bedroom-LM8		110	-	-
LM-Co-living-Bedroom-020		110	-	-

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
LM-Co-living-Bedroom-020		110	-	-
LM-Co-living-Bedroom-LM8		110	-	-
L00 LV Switch Room		140	-	-
L00 Stairs		120	-	-
L00 Circulation		120	-	-
L00 Co-living Refuse		140	-	-
L00 Comms Room		120	-	-
L00 Substation		140	-	-
L00 Circulation		120	-	-
L00 Stairs		120	-	-
L00 Circulation		120	-	-
L00 Refuse		140	-	-
L00 Circulation		120	-	-
L00 Store		140	-	-

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?
I00 Co-Living Co-Working	YES (+214.7%)	NO
B0 - Co-working Space	N/A	N/A
B0 - Screen Room	N/A	N/A
B0 - Gym	N/A	N/A
LM-Co-living-Amenity-0LM	NO (-62.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-002	NO (-49.5%)	NO
LM-Co-living-Bedroom-003	NO (-49.8%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-004	NO (-50.2%)	NO
LM-Co-living-Bedroom-005	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-006	NO (-49.5%)	NO
LM-Co-living-Bedroom-007	NO (-49.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-008	NO (-49.7%)	NO
LM-Co-living-Bedroom-009	NO (-50.7%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-0LM	NO (-40%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-002	NO (-77.1%)	NO
LM-Co-living-Bedroom-LM0	NO (-50.1%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM1	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM2	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM3	NO (-57.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM4	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM5	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM6	NO (-56.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM7	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM8	NO (-57.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM9	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-020	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-021	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-022	NO (-87.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-023	NO (-78.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-003	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-025	NO (-40.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-026	NO (-37.1%)	NO
LM-Co-living-Bedoom-027	NO (-39.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-028	NO (-39%)	NO
LM-Co-living-Bedoom-029	NO (-38.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-030	NO (-9.4%)	NO
LM-Co-living-Bedoom-031	NO (-48%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-032	NO (-24.9%)	NO
LM-Co-living-Bedoom-033	NO (-25%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-034	NO (-25.5%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
LM-Co-living-Bedroom-035	NO (-24.6%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-004	YES (+2.4%)	NO
LM-Co-living-Bedroom-036	NO (-28.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-038	NO (-7.3%)	NO
Co-Living Bathroom	N/A	N/A
LM Co-living Bedroom 0LM	NO (-60.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM Co Living Bedroom 024	NO (-40%)	NO
LM Co Living Bathroom	N/A	N/A
Co-Living Bedroom 037	NO (-25.4%)	NO
LM-Co-living-Amenity-0LM	NO (-62.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-002	NO (-49.5%)	NO
LM-Co-living-Bedroom-003	NO (-49.8%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-004	NO (-50.2%)	NO
LM-Co-living-Bedroom-005	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-006	NO (-49.5%)	NO
LM-Co-living-Bedroom-007	NO (-49.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-008	NO (-49.7%)	NO
LM-Co-living-Bedroom-009	NO (-50.7%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-0LM	NO (-40%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-002	NO (-77.1%)	NO
LM-Co-living-Bedroom-LM0	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM1	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM2	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM3	NO (-57.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM4	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM5	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM6	NO (-56.6%)	NO
Co-Living Bathroom	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
LM-Co-living-Bedoom-LM7	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM8	NO (-57.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM9	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-020	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-021	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-022	NO (-87.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-023	NO (-78.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-003	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-025	NO (-40.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-026	NO (-37.1%)	NO
LM-Co-living-Bedoom-027	NO (-39.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-028	NO (-39%)	NO
LM-Co-living-Bedoom-029	NO (-38.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-030	NO (-9.4%)	NO
LM-Co-living-Bedoom-031	NO (-48%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-032	NO (-24.9%)	NO
LM-Co-living-Bedoom-033	NO (-25%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-034	NO (-25.5%)	NO
LM-Co-living-Bedoom-035	NO (-24.6%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-004	YES (+2.4%)	NO
LM-Co-living-Bedoom-036	NO (-28.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-038	NO (-7.3%)	NO
Co-Living Bathroom	N/A	N/A
LM Co-living Bedroom 0LM	NO (-60.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM Co Living Bedroom 024	NO (-40%)	NO
LM Co Living Bathroom	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
Co-Living Bedroom 037	NO (-25.4%)	NO
LM-Co-living-Amenity-0LM	NO (-62.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-002	NO (-49.5%)	NO
LM-Co-living-Bedroom-003	NO (-49.8%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-004	NO (-50.2%)	NO
LM-Co-living-Bedroom-005	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-006	NO (-49.5%)	NO
LM-Co-living-Bedroom-007	NO (-49.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-008	NO (-49.7%)	NO
LM-Co-living-Bedroom-009	NO (-50.7%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-0LM	NO (-40%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-002	NO (-77.1%)	NO
LM-Co-living-Bedroom-LM0	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM1	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM2	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM3	NO (-57.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM4	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM5	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM6	NO (-56.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM7	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM8	NO (-57.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM9	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-020	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-021	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-022	NO (-87.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
LM-Co-living-Bedroom-023	NO (-78.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-003	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-025	NO (-40.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-026	NO (-37.1%)	NO
LM-Co-living-Bedroom-027	NO (-39.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-028	NO (-39%)	NO
LM-Co-living-Bedroom-029	NO (-38.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-030	NO (-9.4%)	NO
LM-Co-living-Bedroom-031	NO (-48%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-032	NO (-24.9%)	NO
LM-Co-living-Bedroom-033	NO (-25%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-034	NO (-25.5%)	NO
LM-Co-living-Bedroom-035	NO (-24.6%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-004	YES (+2.4%)	NO
LM-Co-living-Bedroom-036	NO (-28.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-038	NO (-7.3%)	NO
Co-Living Bathroom	N/A	N/A
LM Co-living Bedroom 0LM	NO (-60.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM Co Living Bedroom 024	NO (-40%)	NO
LM Co Living Bathroom	N/A	N/A
Co-Living Bedroom 037	NO (-25.4%)	NO
LM-Co-living-Amenity-0LM	NO (-62.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-002	NO (-49.5%)	NO
LM-Co-living-Bedroom-003	NO (-49.8%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-004	NO (-50.2%)	NO
LM-Co-living-Bedroom-005	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-006	NO (-49.5%)	NO
LM-Co-living-Bedroom-007	NO (-49.3%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-008	NO (-49.7%)	NO
LM-Co-living-Bedoom-009	NO (-50.7%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-0LM	NO (-40%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-002	NO (-77.1%)	NO
LM-Co-living-Bedoom-LM0	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM1	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM2	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM3	NO (-57.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM4	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM5	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM6	NO (-56.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM7	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM8	NO (-57.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM9	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-020	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-021	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-022	NO (-87.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-023	NO (-78.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-003	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-025	NO (-40.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-026	NO (-37.1%)	NO
LM-Co-living-Bedoom-027	NO (-39.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-028	NO (-39%)	NO
LM-Co-living-Bedoom-029	NO (-38.1%)	NO
Co-Living Bathroom	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-030	NO (-9.4%)	NO
LM-Co-living-Bedoom-031	NO (-48%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-032	NO (-24.9%)	NO
LM-Co-living-Bedoom-033	NO (-25%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-034	NO (-25.5%)	NO
LM-Co-living-Bedoom-035	NO (-24.6%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-004	YES (+2.4%)	NO
LM-Co-living-Bedoom-036	NO (-28.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-038	NO (-7.3%)	NO
Co-Living Bathroom	N/A	N/A
LM Co-living Bedroom 0LM	NO (-60.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM Co Living Bedroom 024	NO (-40%)	NO
LM Co Living Bathroom	N/A	N/A
Co-Living Bedroom 037	NO (-25.4%)	NO
LM-Co-living-Amenity-0LM	NO (-62.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-002	NO (-49.5%)	NO
LM-Co-living-Bedoom-003	NO (-49.8%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-004	NO (-50.2%)	NO
LM-Co-living-Bedoom-005	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-006	NO (-49.5%)	NO
LM-Co-living-Bedoom-007	NO (-49.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-008	NO (-49.7%)	NO
LM-Co-living-Bedoom-009	NO (-50.7%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-0LM	NO (-40%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-002	NO (-77.1%)	NO
LM-Co-living-Bedoom-LM0	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM1	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
LM-Co-living-Bedroom-LM2	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM3	NO (-57.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM4	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM5	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM6	NO (-56.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM7	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM8	NO (-57.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM9	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-020	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-021	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-022	NO (-87.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-023	NO (-78.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-003	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-025	NO (-40.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-026	NO (-37.1%)	NO
LM-Co-living-Bedroom-027	NO (-39.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-028	NO (-39%)	NO
LM-Co-living-Bedroom-029	NO (-38.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-030	NO (-9.4%)	NO
LM-Co-living-Bedroom-031	NO (-48%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-032	NO (-24.9%)	NO
LM-Co-living-Bedroom-033	NO (-25%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-034	NO (-25.5%)	NO
LM-Co-living-Bedroom-035	NO (-24.6%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
LM-Co-living-Accessible-Room-004	YES (+2.4%)	NO
LM-Co-living-Bedroom-036	NO (-28.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-038	NO (-7.3%)	NO
Co-Living Bathroom	N/A	N/A
LM Co-living Bedroom 0LM	NO (-60.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM Co Living Bedroom 024	NO (-40%)	NO
LM Co Living Bathroom	N/A	N/A
Co-Living Bedroom 037	NO (-25.4%)	NO
LM-Co-living-Amenity-0LM	NO (-62.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-002	NO (-49.5%)	NO
LM-Co-living-Bedroom-003	NO (-49.8%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-004	NO (-50.2%)	NO
LM-Co-living-Bedroom-005	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-006	NO (-49.5%)	NO
LM-Co-living-Bedroom-007	NO (-49.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-008	NO (-49.7%)	NO
LM-Co-living-Bedroom-009	NO (-50.7%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-0LM	NO (-40%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-002	NO (-77.1%)	NO
LM-Co-living-Bedroom-LM0	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM1	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM2	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM3	NO (-57.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM4	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM5	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM6	NO (-56.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM7	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM8	NO (-57.5%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM9	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-020	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-021	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-022	NO (-87.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-023	NO (-78.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-003	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-025	NO (-40.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-026	NO (-37.1%)	NO
LM-Co-living-Bedroom-027	NO (-39.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-028	NO (-39%)	NO
LM-Co-living-Bedroom-029	NO (-38.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-030	NO (-9.4%)	NO
LM-Co-living-Bedroom-031	NO (-48%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-032	NO (-24.9%)	NO
LM-Co-living-Bedroom-033	NO (-25%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-034	NO (-25.5%)	NO
LM-Co-living-Bedroom-035	NO (-24.6%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-004	YES (+2.4%)	NO
LM-Co-living-Bedroom-036	NO (-28.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-038	NO (-7.3%)	NO
Co-Living Bathroom	N/A	N/A
LM Co-living Bedroom 0LM	NO (-60.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM Co Living Bedroom 024	NO (-40%)	NO
LM Co Living Bathroom	N/A	N/A
Co-Living Bedroom 037	NO (-25.4%)	NO
LM-Co-living-Amenity-0LM	NO (-62.5%)	NO
Co-Living Bathroom	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
LM-Co-living-Bedroom-002	NO (-49.5%)	NO
LM-Co-living-Bedroom-003	NO (-49.8%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-004	NO (-50.2%)	NO
LM-Co-living-Bedroom-005	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-006	NO (-49.5%)	NO
LM-Co-living-Bedroom-007	NO (-49.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-008	NO (-49.7%)	NO
LM-Co-living-Bedroom-009	NO (-50.7%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-0LM	NO (-40%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-002	NO (-77.1%)	NO
LM-Co-living-Bedroom-LM0	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM1	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM2	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM3	NO (-57.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM4	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM5	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM6	NO (-56.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM7	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM8	NO (-57.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM9	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-020	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-021	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-022	NO (-87.3%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-023	NO (-78.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-003	NO (-57.6%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-025	NO (-40.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-026	NO (-37.1%)	NO
LM-Co-living-Bedoom-027	NO (-39.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-028	NO (-39%)	NO
LM-Co-living-Bedoom-029	NO (-38.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-030	NO (-9.4%)	NO
LM-Co-living-Bedoom-031	NO (-48%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-032	NO (-24.9%)	NO
LM-Co-living-Bedoom-033	NO (-25%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-034	NO (-25.5%)	NO
LM-Co-living-Bedoom-035	NO (-24.6%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-004	YES (+2.4%)	NO
LM-Co-living-Bedoom-036	NO (-28.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-038	NO (-7.3%)	NO
Co-Living Bathroom	N/A	N/A
LM Co-living Bedroom 0LM	NO (-60.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM Co Living Bedroom 024	NO (-40%)	NO
LM Co Living Bathroom	N/A	N/A
Co-Living Bedroom 037	NO (-25.4%)	NO
LM-Co-living-Bedoom-LM3	NO (-57.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM4	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM5	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM6	NO (-56.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-LM7	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-025	NO (-40.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedoom-026	NO (-37.1%)	NO

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
LM-Co-living-Bedroom-027	NO (-39.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-028	NO (-39%)	NO
LM-Co-living-Bedroom-029	NO (-38.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-030	NO (-42%)	NO
LM-Co-living-Amenity-0LM	NO (-62.5%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM0	NO (-50.1%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM1	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM2	NO (-57.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM3	NO (-57.3%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM4	NO (-56.7%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM5	NO (-57.2%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM6	NO (-56.6%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM7	NO (-56.8%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-LM8	NO (-85.9%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-025	NO (-40.9%)	NO
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-026	NO (-37.1%)	NO
LM-Co-living-Bedroom-027	NO (-39.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-028	NO (-39%)	NO
LM-Co-living-Bedroom-029	NO (-38.1%)	NO
Co-Living Bathroom	N/A	N/A
Co-Living Bathroom	N/A	N/A
LM-Co-living-Bedroom-030	NO (-42%)	NO
LM-Co-living-Bedroom-LM2	NO (-57.3%)	NO
LM-Co-living-Bathroom	N/A	N/A
LM-Co-living-Accessible-Room-003	NO (-16.3%)	NO
LM Co Living Bedroom 024	NO (-70.6%)	NO
LM Co Living Bedroom 024	N/A	N/A
LM Co Living Bedroom 024	N/A	N/A
Co-Living Amenity Lounge	NO (-72%)	NO
LM-Co-living-Accessible-Room-002	NO (-87.6%)	NO
LM-Co-living-Bedroom-LM8	N/A	N/A

Zone	Solar gain limit exceeded? (%)	Internal blinds used?
LM-Co-living-Bedoom-020	N/A	N/A
LM-Co-living-Bedoom-020	NO (-67.9%)	NO
LM-Co-living-Bedoom-LM8	NO (-70.4%)	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]	14587.9	14587.9
External area [m ²]	12460.9	12460.9
Weather	LON	LON
Infiltration [m ³ /hm ² @ 50Pa]	3	3
Average conductance [W/K]	4078.33	4970.29
Average U-value [W/m ² K]	0.33	0.4
Alpha value* [%]	25.26	10

* 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
4	Offices and Workshop Businesses
	General Industrial and Special Industrial Groups
	Storage or Distribution
	Hotels
	Residential Institutions: Hospitals and Care Homes
	Residential Institutions: Residential Schools
91	Residential Institutions: Universities and Colleges
	Secure Residential Institutions
2	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
3	Others: Car Parks 24 hrs
	Others: Stand Alone Utility Block

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	3.19	6.65
Cooling	1.36	1.13
Auxiliary	2.07	7.22
Lighting	5.72	7.27
Hot water	4.77	5.45
Equipment*	39.82	39.82
TOTAL **	17.11	27.71

* 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	3.41	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
<i>Displaced electricity</i>	<i>3.41</i>	<i>0</i>

Energy & CO₂ Emissions Summary

	Actual	Notional
Heating + cooling demand [MJ/m ²]	88.39	85.37
Primary energy [kWh _{PE} /m ²]	20.37	41.15
Total emissions [kg/m ²]	1.92	3.82

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] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	41.1	195.2	2	9.2	2.7	5.84	5.91	5.98	9.16	
Notional	10.5	114.6	1	6.9	5.8	2.78	4.63	----	----	
[ST] Central heating using water: radiators, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	45.3	0	4.3	0	3.1	2.94	0	3.13	0	
Notional	61.8	0	6.2	0	1.9	2.78	0	----	----	
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	85.3	12.9	4.2	0.6	1.6	5.71	6.2	6.19	9.16	
Notional	95.7	6	9.6	0.4	10	2.78	4.63	----	----	
[ST] Variable refrigerant flow, [HS] ASHP, [HFT] Electricity, [CFT] Electricity										
Actual	8.6	215.8	0.4	10.2	6.2	5.84	5.91	5.98	9.16	
Notional	9.5	167.7	0.9	10.1	10.1	2.78	4.63	----	----	
[ST] No Heating or Cooling										
Actual	0	0	0	0	0	0	0	0	0	
Notional	0	0	0	0	0	0	0	----	----	

Key to terms

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