



TECHNICAL NOTE

Date: 29th May 2025

File Ref: MB/VL/P22-2562/10TN Rev B

Subject: Overheating Assessment – Response to Planning Officer Comments

Project: P22-2562 – Hornsey Police Station, London, N8 7EJ

1.0 INTRODUCTION

- 1.1 Create Consulting Engineers Ltd carried out an Overheating Assessment at the Design Stage for the proposed development at Hornsey Police Station, London. This Technical Note has been prepared in response to comments received from the Planning Officer (document reference HGY/2025/0101), specifically regarding the use of internal Venetian blinds as a mitigation measure for Part O compliance.
- 1.2 As per the Building Regulations Approved Document Part O, internal blinds cannot be considered a compliant mitigation measure for overheating risk. Consequently, internal Venetian blinds in all habitual rooms are not included as part of the simulation for Part O compliance but will be incorporated into the design and construction phases to help limit solar gain.
- 1.3 Additionally, the external blinds on the north elevation of Block A will be replaced with internal Venetian blinds due to technical and design constraints confirmed by the design team. These internal blinds will be part of the design and construction but will not be included in the overheating simulations, as Part O does not recognize internal blinds as compliant mitigation.

2.0 OVERHEATING MITIGATION STRATEGY 2

- 2.1 The updated overheating mitigation strategy (Strategy 2), as presented in the original Overheating Assessment Report (Ref: MB/VL/P22-2562/08 Rev A), has been revised to exclude internal Venetian blinds. All other passive and active design measures remain unchanged and are summarised below:

Passive Measures:

- Low g-value glazing to minimise solar gains
- Cross ventilation through internal doors
- External shading devices (e.g. external blinds)

Active Measures:

- Mechanical Ventilation with Heat Recovery (MVHR) in all habitable spaces
- Extract fans in small bedrooms and rooms prone to overheating to enhance ventilation and temperature control

3.0 RESULTS

- 3.1 Updated simulations have been carried out for all required Design Summer Year (DSY) weather files, in line with GLA and CIBSE TM59 guidance. The modelling confirms full compliance without the use of internal blinds.

Habitable Rooms			
Design Weather Scenario	Total Rooms Assessed	Rooms Passing	Rooms Failing
DSY1_2020H50	105	105	0
DSY2_2020H50	105	105	0
DSY3_2020H50	105	105	0
DSY1_2050H50	105	105	0
DSY1_2080H50	105	105	0
Communal Corridors			
Design Weather Scenario	Total Corridors Assessed	Corridors Passing	Corridors Failing
DSY1_2020H50	4	4	0
DSY2_2020H50	4	4	0
DSY3_2020H50	4	4	0
DSY1_2050H50	4	4	0
DSY1_2080H50	4	4	0

Table 3.1: Result- Baseline + Mitigation Strategy 2

4.0 CONCLUSION

- 4.1 The revised overheating mitigation strategy, which excludes internal Venetian blinds from the simulation in compliance with Part O, ensures that all habitable rooms and communal corridors within the development comply with the thermal comfort and ventilation requirements of the Building Regulations. The modelling confirms:
- All the habitable rooms or communal corridors pass the overheating criteria under current, extreme, or future climate scenarios. Please refer to Appendix B-F for detailed results.
 - The strategy achieves compliance without the need for active cooling or increased ventilation rates beyond those already incorporated.
- 4.2 This demonstrates that the proposed development is resilient to overheating under present and projected climate conditions.

Appendices:

- Appendix A – Model Visuals Showing External Blinds
- Appendix B-F – Detailed Simulation Results by Weather Scenario

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APPENDICES

APPENDIX A

Model Visuals Showing External Blinds

Append A- Windows G-values (elevation)
Hornsey Police Station

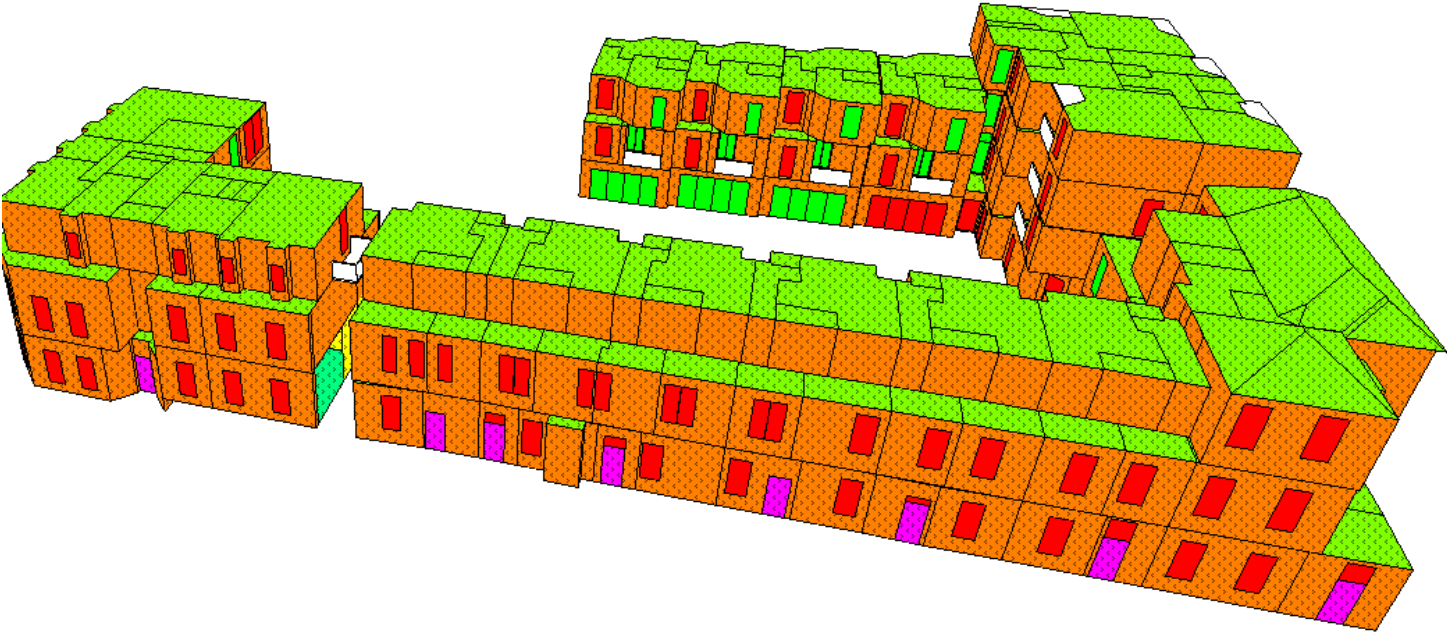
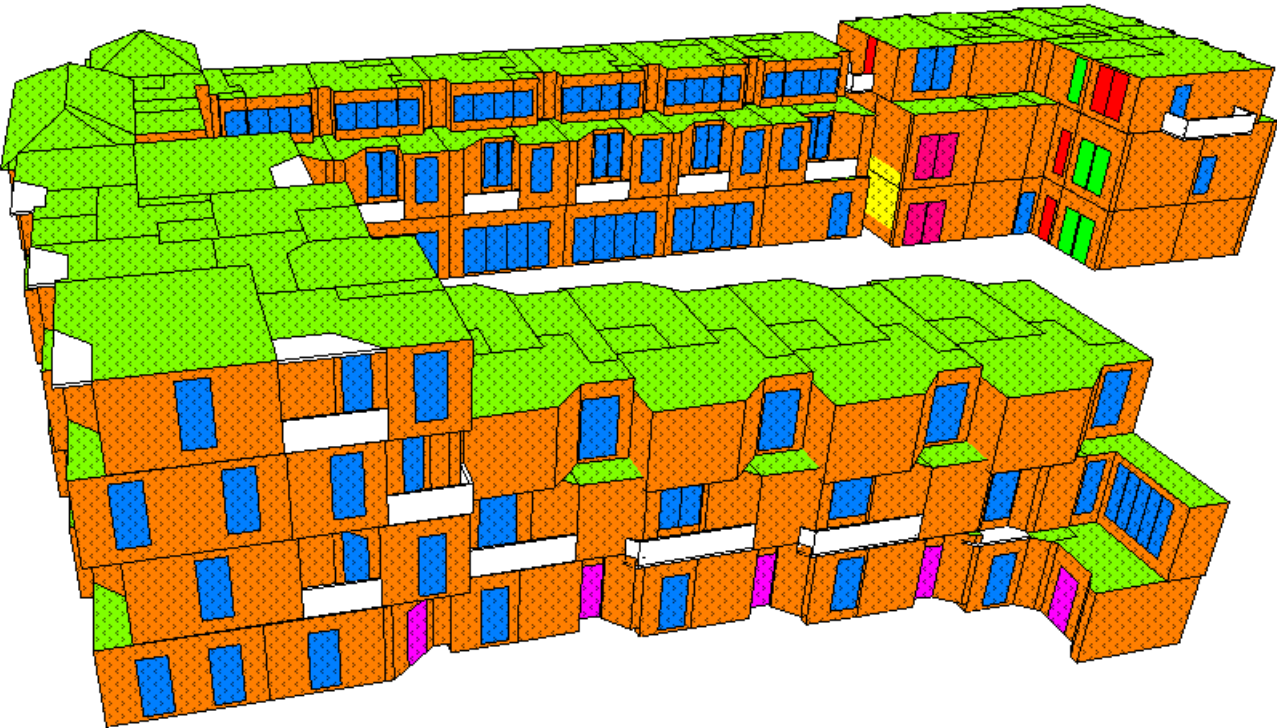


Figure A1: South Elevation

Legend	
	South-east-west facing windows with Low g-value of 0.25
	North facing windows with g-value of 0.52
	South-east-west facing windows with Low g-value of 0.25 (External Blinds)
	North facing windows with g-value of 0.52 (External Blinds)

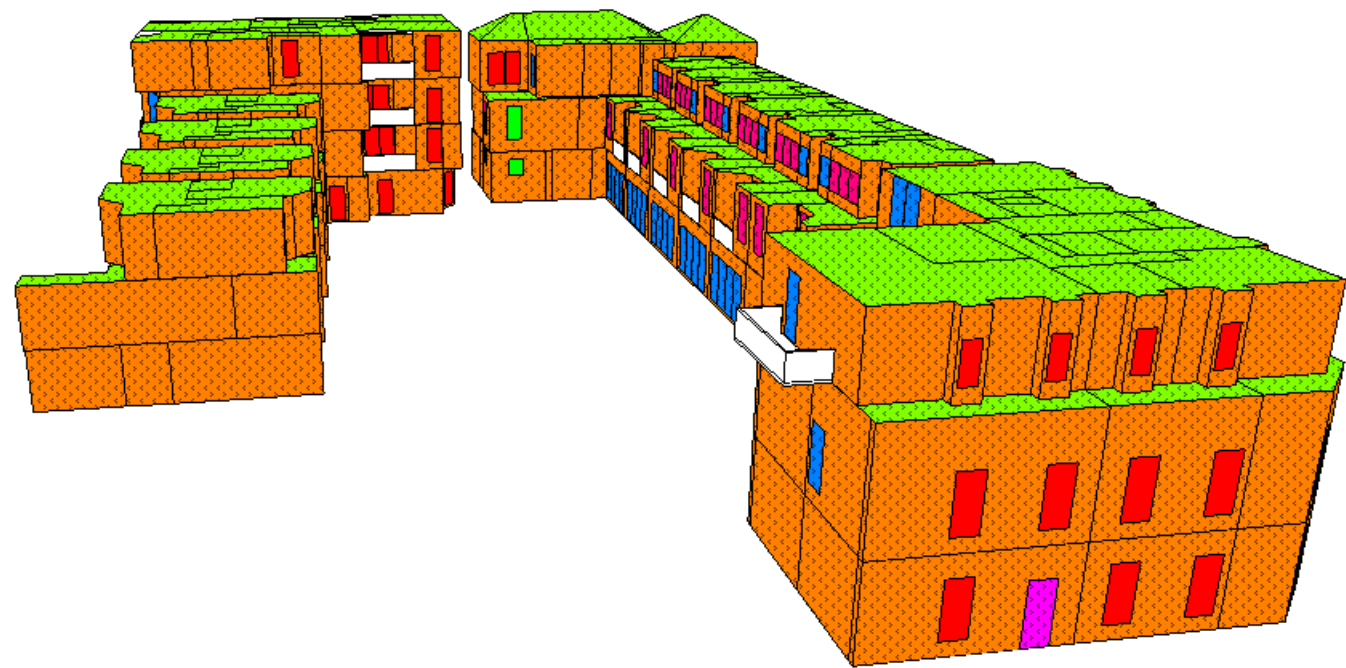
Append A- Windows G-values (elevation)
 Hornsey Police Station



Legend	
	South-east-west facing windows with Low g-value of 0.25
	North facing windows with g-value of 0.52
	South-east-west facing windows with Low g-value of 0.25 (External Blinds)
	North facing windows with g-value of 0.52 (External Blinds)

Figure A2: North Elevation

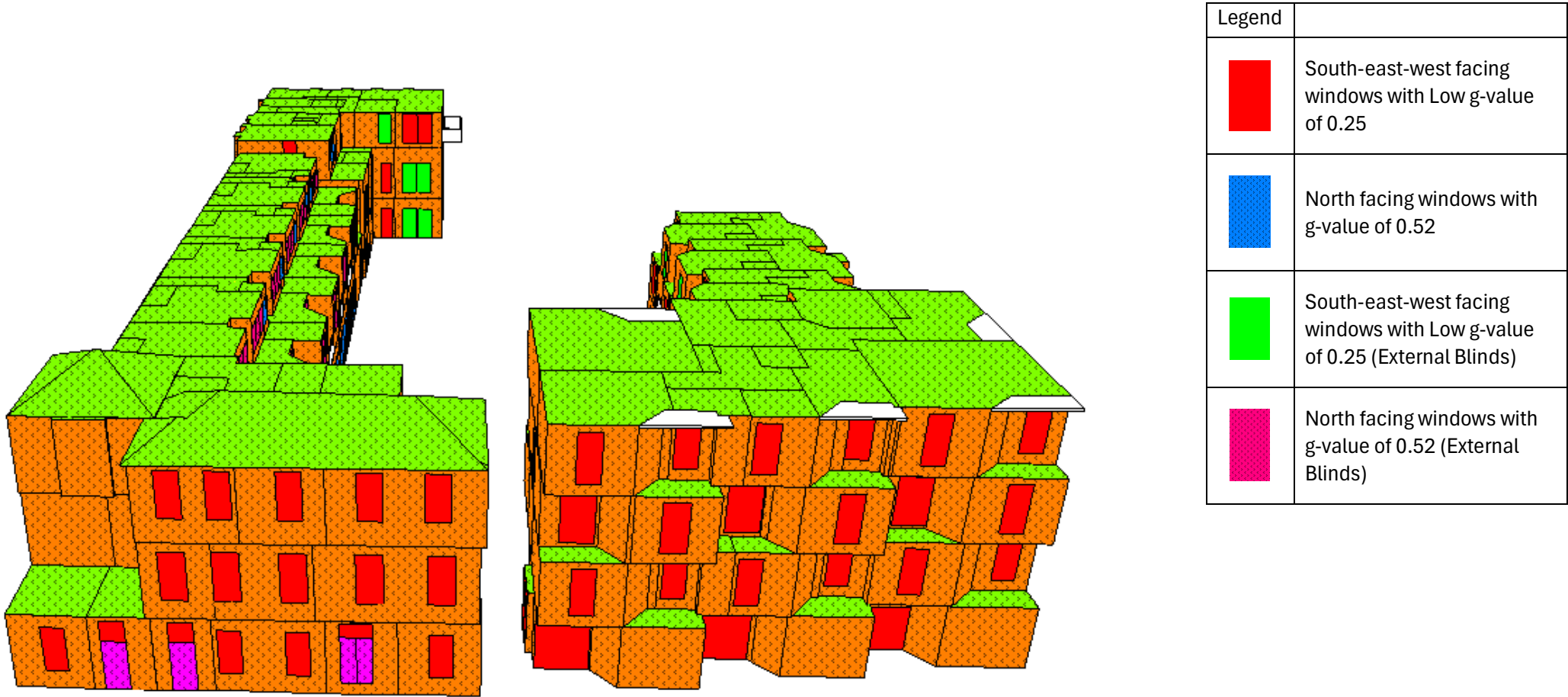
Append A- Windows G-values (elevation)
Hornsey Police Station



Legend	
	South-east-west facing windows with Low g-value of 0.25
	North facing windows with g-value of 0.52
	South-east-west facing windows with Low g-value of 0.25 (External Blinds)
	North facing windows with g-value of 0.52 (External Blinds)

Figure A3: West elevation

Append A- Windows G-values (elevation)
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APPENDIX B

Detailed Simulation Results by Weather Scenario

Approved Document O report
Overheating risk in residential buildings
for
Hornsey Police Station

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Building details

Project name: Hornsey Police Station	Date: 30-05-2025 15:18:19
Location: London City Ap, United Kingdom	
Address: London	
Building use: Residential	
Are there any security, noise, or pollution issues: Yes	

Designer's details

Designer's name:
Designer's organisation:
Designer's address:

Dynamic thermal model

Software: IESVE version 2024.1.0.0	
Weather file: London_LWC_DSY1_2020High50.epw	
Results file: DSY1_2020H50.aps	
Number of rooms analysed: 109	
TM59: summer elevated air speed: 0.1	
TM59: occupant category: Category II (normal)	
Overheating mitigation strategy: External Blinds, MVHR with Extract Fan	
Has the building construction proposal been modelled accurately?	YES
Have the analysed rooms passed the assessment for Approved Doc O Dynamic Thermal Modelling Method (CIBSE TM 59)?	YES
Designer's signature:	

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Summary

CIBSE TM59 overheating methodology for predominantly naturally ventilated rooms assesses against two criteria, (a) and (b) (for Category I occupancy, T_{max} is reduced by 1K):

- Criterion (a) states that for living rooms, kitchens and bedrooms, the number of hours during which ΔT is greater than or equal to 1K from May to September (or November to March for southern hemisphere locations) shall not exceed 3% of occupied hours
- Criterion (b) states that the operative temperature of the bedrooms from 22:00-07:00 shall not exceed 26°C for more than 1% of annual hours (33 hours is therefore recorded as a fail). Approved document O applies limits to CIBSE TM59 section 3.3 (openings); these requirements are applied by appropriate assignment of MacroFlo types / scripted profiles in the model (see Modelled Openings Section).

CIBSE TM59 overheating methodology for predominantly mechanically ventilated rooms states the operative temperature of all rooms shall not exceed 26°C for more than 3% of annual occupied hours.

CIBSE TM59 also states that the inclusion of corridors in the overheating analysis is mandatory where community heating pipework runs through them. While there is no mandatory target for communal corridors, if an operative temperature of 28°C is exceeded for more than 3% of the total annual hours this should be identified as a significant risk.

Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block C1- 2B3P KLD	-	-	Pass	-
Block C1- bed	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block C2- bed	-	-	Pass	-
Block C3- 1B2P KLD	-	-	Pass	-
Block A AH1- Study	-	-	Pass	-
Block A AH2- Study	-	-	Pass	-
Block A AH3- Study	-	-	Pass	-
Block A AH4- Study	-	-	Pass	-
Block A AH5- Study	-	-	Pass	-
Block A AH6- Study	-	-	Pass	-
Block C4 - Bed	-	-	Pass	-
Block C5-bed	-	-	Pass	-
Block C6- 1B2P KLD	-	-	Pass	-
Block C4 - 2B3P KLD	-	-	Pass	-
CORRIDOR-BLOCK B	-	-	-	No
Block B2- bed	-	-	Pass	-
Block B2- 2B4P KLD	-	-	Pass	-
Block B3-Sbed	-	-	Pass	-
Block B2-2B4P KLD	-	-	Pass	-
Block B MH1- Bed	-	-	Pass	-
Block B MH2- Bed	-	-	Pass	-
Block B MH3-bed	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
Block B3-BED	-	-	Pass	-
Block C7- 1B2P KLD	-	-	Pass	-
Block C8- Sbed	-	-	Pass	-
Block C8- bed	-	-	Pass	-
Block C8- bed	-	-	Pass	-

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Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block B4- 2B4P KLD	-	-	Pass	-
Block B4- bed	-	-	Pass	-
Block B6- 2B4P KLD	-	-	Pass	-
Block B7- 2B3P KLD	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block A4-3B5P KLD	-	-	Pass	-
Block A4-bed	-	-	Pass	-
Block B3-2B3P KLD	-	-	Pass	-
Block C3- bed	-	-	Pass	-
Block C1- Sbed	-	-	Pass	-
Block C2- 1B2P KLD	-	-	Pass	-
Block C4 - Sbed	-	-	Pass	-
Block C6- bed	-	-	Pass	-
Block C5-1B2P KLD	-	-	Pass	-
Block B5- bed	-	-	Pass	-
Block A AH2- 4B7P KLD	-	-	Pass	-
Block A AH3- 4B7P KLD	-	-	Pass	-
Block A2- 1B2P LD	-	-	Pass	-
Block A AH6- 4B7P KLD	-	-	Pass	-
Block A AH4- 4B7P KLD	-	-	Pass	-
Block A AH5- 4B7P KLD	-	-	Pass	-
Block A1- bed	-	-	Pass	-
Block A2- Kitchen	-	-	Pass	-
Block A1- 2B4P KLD	-	-	Pass	-
Block A AH1- bed	-	-	Pass	-
Block A AH1- bed	-	-	Pass	-
Block A AH2- bed	-	-	Pass	-
Block A AH2- bed	-	-	Pass	-
Block A AH3-Bed	-	-	Pass	-
Block A AH3-Bed	-	-	Pass	-
Block A AH4- bed	-	-	Pass	-
Block A AH4- bed	-	-	Pass	-
Block A AH5- bed	-	-	Pass	-
Block A AH5-bed	-	-	Pass	-
Block A AH6- bed	-	-	Pass	-
Block A AH6- bed	-	-	Pass	-
Block A2-bed	-	-	Pass	-
Block A3-Bed	-	-	Pass	-
Block A3-2B4P KLD	-	-	Pass	-
Block A3-Bed	-	-	Pass	-
Block A AH6- BED	-	-	Pass	-
Block A AH5- bed	-	-	Pass	-

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Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block A AH2- BED	-	-	Pass	-
Block A AH3- BED	-	-	Pass	-
Block A AH4-BED	-	-	Pass	-
Block A AH1- BED	-	-	Pass	-
Block A4-bed	-	-	Pass	-
Block A4-Study	-	-	Pass	-
Block B7- bed	-	-	Pass	-
Block B7- Sbed	-	-	Pass	-
Block B6- bath	-	-	Pass	-
Block B6- bed	-	-	Pass	-
Block B6- bed	-	-	Pass	-
BLOCK B MH4- 4B8P KLD	-	-	Pass	-
Block B MH3- 4B8P KLD	-	-	Pass	-
Block B MH2- 4B8P KLD	-	-	Pass	-
Block B MH1- 4B8P KLD	-	-	Pass	-
Block B2- bed	-	-	Pass	-
Block B MH2- Bed	-	-	Pass	-
Block B MH3-bed	-	-	Pass	-
BLOCK B MH4- Study	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
Block B MH1-bed	-	-	Pass	-
Block B MH2-bed	-	-	Pass	-
Block B5- sbed	-	-	Pass	-
Block B5- 2B3P KLD	-	-	Pass	-
Block C8- 3B5P KLD	-	-	Pass	-
Block B4-Bed	-	-	Pass	-
Block A1- bed	-	-	Pass	-
Block A AH1- 4B7P KLD	-	-	Pass	-
Block B MH1-bed	-	-	Pass	-
BLOCK B MH1- Study	-	-	Pass	-
Block B2-bed	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
BLOCK B MH3- Study	-	-	Pass	-
Block B MH3-Bed	-	-	Pass	-
BLOCK B MH2- Study	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block C7- Bed	-	-	Pass	-
Block B2-bed	-	-	Pass	-

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Naturally ventilated rooms – criterion (a)

Criterion (a) states that for living rooms, kitchens and bedrooms, the number of hours during which ΔT is greater than or equal to 1K from May to September (or November to March for southern hemisphere locations) shall not exceed 3% of occupied hours.

Room name	Occupied hours	No. hours $\Delta T \geq 1^\circ\text{K}$	% Occupied hours $\Delta T \geq 1^\circ\text{K}$	Criterion a check
No nat vent rooms	N/A	N/A	N/A	N/A

Naturally ventilated rooms – criterion (b)

Criterion (b) states that the operative temperature of the bedrooms from 22:00-07:00 shall not exceed 26°C for more than 1% of annual hours (33 hours is therefore recorded as a fail). Any rooms that are not bedrooms are therefore not assessed, hence the corresponding N/A values.

Room name	No. hours > 26°C 22:00-24:00	No. hours > 26°C 00:00-07:00	Total hours > 26°C	Criterion b check
No nat vent rooms	N/A	N/A	N/A	N/A

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Mechanically ventilated rooms

CIBSE TM59 overheating methodology for predominantly mech. vent. rooms states the operative temperature of all rooms shall not exceed 26°C for more than 3% of annual occupied hours.

Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
Block C1- 2B3P KLD	0	0.0	Pass
Block C1- bed	0	0.0	Pass
Block C2- bed	0	0.0	Pass
Block C3- 1B2P KLD	0	0.0	Pass
Block A AH1- Study	0	0.0	Pass
Block A AH2- Study	0	0.0	Pass
Block A AH3- Study	0	0.0	Pass
Block A AH4- Study	0	0.0	Pass
Block A AH5- Study	0	0.0	Pass
Block A AH6- Study	0	0.0	Pass
Block C4 - Bed	0	0.0	Pass
Block C5-bed	0	0.0	Pass
Block C6- 1B2P KLD	0	0.0	Pass
Block C4 - 2B3P KLD	0	0.0	Pass
Block B2- bed	0	0.0	Pass
Block B2- 2B4P KLD	0	0.0	Pass
Block B3-Sbed	0	0.0	Pass
Block B2-2B4P KLD	0	0.0	Pass
Block B MH1- Bed	0	0.0	Pass
Block B MH2- Bed	0	0.0	Pass
Block B MH3-bed	0	0.0	Pass
BLOCK B MH4- bed	0	0.0	Pass
Block B3-BED	0	0.0	Pass
Block C7- 1B2P KLD	0	0.0	Pass
Block C8- Sbed	0	0.0	Pass
Block C8- bed	0	0.0	Pass
Block C8- bed	0	0.0	Pass
Block B4- 2B4P KLD	0	0.0	Pass
Block B4- bed	0	0.0	Pass
Block B6- 2B4P KLD	0	0.0	Pass
Block B7- 2B3P KLD	0	0.0	Pass
Block A4-3B5P KLD	0	0.0	Pass
Block A4-bed	0	0.0	Pass
Block B3-2B3P KLD	0	0.0	Pass
Block C3- bed	0	0.0	Pass
Block C1- Sbed	0	0.0	Pass
Block C2- 1B2P KLD	0	0.0	Pass

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Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
Block C4 - Sbed	0	0.0	Pass
Block C6- bed	0	0.0	Pass
Block C5-1B2P KLD	0	0.0	Pass
Block B5- bed	0	0.0	Pass
Block A AH2- 4B7P KLD	0	0.0	Pass
Block A AH3- 4B7P KLD	0	0.0	Pass
Block A2- 1B2P LD	0	0.0	Pass
Block A AH6- 4B7P KLD	0	0.0	Pass
Block A AH4- 4B7P KLD	0	0.0	Pass
Block A AH5- 4B7P KLD	0	0.0	Pass
Block A1- bed	0	0.0	Pass
Block A2- Kitchen	0	0.0	Pass
Block A1- 2B4P KLD	0	0.0	Pass
Block A AH1- bed	0	0.0	Pass
Block A AH1- bed	0	0.0	Pass
Block A AH2- bed	0	0.0	Pass
Block A AH2- bed	0	0.0	Pass
Block A AH3-Bed	0	0.0	Pass
Block A AH3-Bed	0	0.0	Pass
Block A AH4- bed	0	0.0	Pass
Block A AH4- bed	0	0.0	Pass
Block A AH5- bed	0	0.0	Pass
Block A AH5-bed	0	0.0	Pass
Block A AH6- bed	0	0.0	Pass
Block A AH6- bed	0	0.0	Pass
Block A2-bed	0	0.0	Pass
Block A3-Bed	0	0.0	Pass
Block A3-2B4P KLD	0	0.0	Pass
Block A3-Bed	0	0.0	Pass
Block A AH6- BED	0	0.0	Pass
Block A AH5- bed	0	0.0	Pass
Block A AH2- BED	0	0.0	Pass
Block A AH3- BED	0	0.0	Pass
Block A AH4-BED	0	0.0	Pass
Block A AH1- BED	0	0.0	Pass
Block A4-bed	0	0.0	Pass
Block A4-Study	0	0.0	Pass
Block B7- bed	0	0.0	Pass
Block B7- Sbed	0	0.0	Pass
Block B6- bath	0	0.0	Pass
Block B6- bed	0	0.0	Pass
Block B6- bed	0	0.0	Pass

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Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
BLOCK B MH4- 4B8P KLD	0	0.0	Pass
Block B MH3- 4B8P KLD	0	0.0	Pass
Block B MH2- 4B8P KLD	0	0.0	Pass
Block B MH1- 4B8P KLD	0	0.0	Pass
Block B2- bed	0	0.0	Pass
Block B MH2- Bed	0	0.0	Pass
Block B MH3-bed	0	0.0	Pass
BLOCK B MH4- Study	0	0.0	Pass
BLOCK B MH4- bed	0	0.0	Pass
Block B MH1-bed	0	0.0	Pass
Block B MH2-bed	0	0.0	Pass
Block B5- sbed	0	0.0	Pass
Block B5- 2B3P KLD	0	0.0	Pass
Block C8- 3B5P KLD	0	0.0	Pass
Block B4-Bed	0	0.0	Pass
Block A1- bed	0	0.0	Pass
Block A AH1- 4B7P KLD	0	0.0	Pass
Block B MH1-bed	0	0.0	Pass
BLOCK B MH1- Study	0	0.0	Pass
Block B2-bed	0	0.0	Pass
BLOCK B MH4- bed	0	0.0	Pass
BLOCK B MH3- Study	0	0.0	Pass
Block B MH3-Bed	0	0.0	Pass
BLOCK B MH2- Study	0	0.0	Pass
Block C7- Bed	0	0.0	Pass
Block B2-bed	0	0.0	Pass

Communal corridors

CIBSE TM59 states that whilst there is no mandatory target for communal corridors, if an operative temperature of 28°C is exceeded for more than 3% of annual hours, then this should be identified as a significant risk within the TM59 overheating report.

Room name	No. hours > 28°C	% Annual hours > 28°C	Corridor overheating risk check
CORRIDOR- BLOCK C	0	0.0	No
CORRIDOR-BLOCK B	0	0.0	No
CORRIDOR- BLOCK C	0	0.0	No
CORRIDOR- BLOCK C	0	0.0	No

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Modelled details & overheating mitigation strategy

Approved document O: Providing Information & Appendix B requires information about the model and the overheating mitigation strategy. The following tables detail the modelling method and mitigation strategies applied to each analysed room. Where multiple active openings per space (windows & louvres) exist they are all listed. Occupancy, equipment and lighting profiles for occupied rooms comply with TM59 section 5.

Modelled occupancy

Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block C1- 2B3P KLD	30.36	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C1- bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
CORRIDOR- BLOCK C	18.83	TM59 - Circulation - Corridors			on continuously
Block C2- bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C3- 1B2P KLD	28.7	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH1- Study	7.87	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH2- Study	7.05	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH3- Study	7.3	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH4- Study	8.2	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH5- Study	7.56	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH6- Study	7.33	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C4 - Bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C5-bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C6- 1B2P KLD	28.7	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C4 - 2B3P KLD	30.36	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
CORRIDOR-BLOCK B	19.03	TM59 - Circulation - Corridors			on continuously
Block B2- bed	13.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2- 2B4P KLD	30.48	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B3-Sbed	12.73	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-2B4P KLD	33.24	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1- Bed	14.48	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2- Bed	13.79	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B MH3-bed	14.04	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- bed	14.46	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B3-BED	17.65	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C7- 1B2P KLD	29.54	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C8- Sbed	10.07	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C8- bed	15.62	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C8- bed	12.91	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B4- 2B4P KLD	33.92	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B4- bed	12.13	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B6- 2B4P KLD	33.26	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B7- 2B3P KLD	32.52	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
CORRIDOR- BLOCK C	16.65	TM59 - Circulation - Corridors			on continuously

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A4-3B5P KLD	37.07	TM59 - 3 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A4-bed	11.43	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B3-2B3P KLD	32.69	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C3- bed	17.42	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C1- Sbed	11.8	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C2- 1B2P KLD	31.42	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C4 - Sbed	11.81	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C6- bed	17.35	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C5-1B2P KLD	32.03	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B5- bed	15.27	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- 4B7P KLD	41.7	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH3- 4B7P KLD	41.91	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A2- 1B2P LD	16.49	TM59 - 1 Bedroom - Living- with summer bypass	Living Occupancy	Living Occupancy	18-23h
Block A AH6- 4B7P KLD	40.43	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH4- 4B7P KLD	44.81	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH5- 4B7P KLD	42.48	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A1- bed	13.31	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A2- Kitchen	7.77	TM59 - 1 Bedroom - Kitchen with Summer bypass	Kitchen Occupancy	Kitchen Equipment	18-23h
Block A1- 2B4P KLD	35.47	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH1- bed	15.83	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- bed	15.81	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- bed	14.17	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH2- bed	12.5	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3-Bed	14.4	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3-Bed	13.44	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4- bed	16.85	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4- bed	15.14	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5- bed	15.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5-bed	13.0	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- bed	13.75	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- bed	12.67	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A2-bed	18.71	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A3-Bed	16.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A3-2B4P KLD	32.67	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A3-Bed	17.25	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- BED	17.92	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5- bed	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- BED	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3- BED	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4-BED	20.82	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- BED	20.8	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A4-bed	22.63	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A4-Study	12.57	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B7- bed	17.64	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B7- Sbed	12.66	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B6- bath	2.64	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B6- bed	16.23	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B6- bed	14.03	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- 4B8P KLD	42.89	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH3- 4B8P KLD	39.51	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH2- 4B8P KLD	39.57	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1- 4B8P KLD	41.91	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B2- bed	19.26	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2- Bed	12.97	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH3-bed	13.29	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- Study	19.28	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- bed	15.96	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B MH1-bed	15.25	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2-bed	15.56	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B5- sbed	12.93	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B5- 2B3P KLD	30.91	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C8- 3B5P KLD	39.32	TM59 - 3 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B4-Bed	14.9	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A1- bed	13.23	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- 4B7P KLD	46.76	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1-bed	14.14	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH1- Study	19.63	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-bed	16.46	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
BLOCK B MH4- bed	13.54	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH3- Study	18.45	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH3-Bed	16.0	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH2- Study	18.84	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
CORRIDOR- BLOCK C	10.54	TM59 - Circulation - Corridors			on continuously
Block C7- Bed	15.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-bed	12.21	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Modelled openings

Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C1- 2B3P KLD	13.91	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	4.98	on continuously, off continuously
Block C1- bed	24.25	0.52	2.64, 2.64, 1.98, 1.98	0.0, 0.0, 80.0, 80.0	19.56	DOOR Open 07:00-22:00, off continuously
CORRIDOR- BLOCK C	10.46	0.52	2.16, 1.98	0.0, 0.0	0.0	off continuously
Block C2- bed	20.5	0.25	1.79, 1.79, 1.98	0.0, 0.0, 80.0	9.78	DOOR Open 07:00-22:00, off continuously
Block C3- 1B2P KLD	4.96	0.25	1.79, 1.98, 1.89	0.0, 0.0, 80.0	5.27	on continuously, off continuously
Block A AH1- Study	19.88	0.52	2.37, 1.89	0.0, 80.0	19.21	DOOR Open 07:00-22:00, off continuously
Block A AH2- Study	20.79	0.52	2.37, 1.89	0.0, 80.0	21.45	DOOR Open 07:00-22:00, off continuously
Block A AH3- Study	20.96	0.52	2.37, 1.89	0.0, 80.0	20.71	DOOR Open 07:00-22:00, off continuously
Block A AH4- Study	18.7	0.52	2.37, 1.89	0.0, 80.0	18.44	DOOR Open 07:00-22:00, off continuously
Block A AH5- Study	20.04	0.52	2.37, 1.89	0.0, 80.0	20.0	DOOR Open 07:00-22:00, off continuously
Block A AH6- Study	20.63	0.52	2.37, 1.89	0.0, 80.0	20.63	DOOR Open 07:00-22:00, off continuously
Block C4 - Bed	17.52	0.52	2.64, 2.64, 1.89	0.0, 0.0, 80.0	9.33	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C5-bed	19.1	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	9.33	DOOR Open 07:00-22:00, off continuously
Block C6- 1B2P KLD	12.05	0.25, 0.52	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	5.27	on continuously, off continuously
Block C4 - 2B3P KLD	9.47	0.25	1.89, 1.79, 1.79	80.0, 0.0, 0.0	4.98	on continuously, off continuously
CORRIDOR-BLOCK B	18.25	0.25	1.99, 2.11	0.0, 0.0	0.0	off continuously
Block B2- bed	19.35	0.52	1.89, 1.98	0.0, 80.0	12.18	DOOR Open 07:00-22:00, off continuously
Block B2- 2B4P KLD	24.22	0.25, 0.52	3.93, 1.89, 1.89, 1.89	0.0, 0.0, 0.0, 80.0	4.96	on continuously, off continuously
Block B3-Sbed	39.16	0.25	1.86, 1.89	0.0, 80.0	11.88	DOOR Open 07:00-22:00, off continuously
Block B2-2B4P KLD	15.1	0.25, 0.25, 0.52	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.55	on continuously, off continuously
Block B MH1- Bed	8.92	0.25	1.87, 0.01, 0.01, 1.04, 1.04	80.0, 80.0, 80.0, 0.0, 0.0	10.44	DOOR Open 07:00-22:00, off continuously
Block B MH2- Bed	13.13	0.25	1.89, 1.04, 1.04	80.0, 0.0, 0.0	10.96	DOOR Open 07:00-22:00, off continuously
Block B MH3-bed	13.08	0.25	1.89, 1.04, 1.03	80.0, 0.0, 0.0	10.77	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	13.25	0.25	1.98, 1.03, 1.03	80.0, 0.0, 0.0	10.95	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block B3-BED	7.32	0.25	1.89, 1.86	80.0, 0.0	8.57	DOOR Open 07:00-22:00, off continuously
Block C7- 1B2P KLD	18.75	0.25, 0.25, 0.25, 0.52	1.89, 0.82, 0.82, 2.07, 2.53, 2.53	80.0, 0.0, 0.0, 0.0, 0.0, 0.0	5.12	on continuously, off continuously
Block C8- Sbed	8.81	0.25	1.89, 0.82	80.0, 0.0	15.01	DOOR Open 07:00-22:00, off continuously
Block C8- bed	3.16	0.25	1.89, 0.82	80.0, 0.0	9.68	DOOR Open 07:00-22:00, off continuously
Block C8- bed	23.94	0.25	2.07, 1.89	0.0, 80.0	11.71	DOOR Open 07:00-22:00, off continuously
Block B4- 2B4P KLD	23.89	0.25, 0.25, 0.52	2.73, 1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 0.0, 80.0	4.46	on continuously, off continuously
Block B4- bed	42.81	0.25	1.66, 1.89	0.0, 80.0	12.46	DOOR Open 07:00-22:00, off continuously
Block B6- 2B4P KLD	15.76	0.52, 0.25, 0.25	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.55	on continuously, off continuously
Block B7- 2B3P KLD	14.75	0.25, 0.25	2.07, 1.24, 1.86	0.0, 0.0, 0.0	0.0	off continuously
CORRIDOR- BLOCK C	0.0				0.0	
Block A4-3B5P KLD	15.01	0.25, 0.25, 0.52	1.76, 1.76, 2.07, 2.07, 2.07, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	4.08	on continuously, off continuously
Block A4-bed	17.37	0.25	1.89, 1.76	80.0, 0.0	13.23	DOOR Open 07:00-22:00, off continuously
Block B3-2B3P KLD	15.85	0.25, 0.25	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.63	on continuously, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C3- bed	19.39	0.25	2.64, 2.64, 1.89	0.0, 0.0, 80.0	8.68	DOOR Open 07:00-22:00, off continuously
Block C1- Sbed	17.2	0.25	1.79, 1.89	0.0, 80.0	12.81	DOOR Open 07:00-22:00, off continuously
Block C2- 1B2P KLD	14.71	0.25, 0.25	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	4.81	on continuously, off continuously
Block C4 - Sbed	11.82	0.25	1.79, 1.89	0.0, 80.0	12.8	DOOR Open 07:00-22:00, off continuously
Block C6- bed	15.53	0.25	2.64, 2.64, 1.89	0.0, 0.0, 80.0	8.71	DOOR Open 07:00-22:00, off continuously
Block C5-1B2P KLD	10.74	0.25, 0.25	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	4.72	on continuously, off continuously
Block B5- bed	11.02	0.25	1.86, 1.89	0.0, 80.0	9.9	DOOR Open 07:00-22:00, off continuously
Block A AH2- 4B7P KLD	36.89	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.63	on continuously, off continuously
Block A AH3- 4B7P KLD	41.51	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A2- 1B2P LD	22.19	0.25	1.77, 1.77, 1.89	0.0, 0.0, 80.0	9.17	on continuously, off continuously
Block A AH6- 4B7P KLD	44.64	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A AH4- 4B7P KLD	41.79	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.76	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A AH5- 4B7P KLD	43.13	0.25, 0.52	1.76, 2.64, 2.64, 2.64, 2.64	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A1- bed	7.9	0.25	1.76, 1.89	0.0, 80.0	11.36	DOOR Open 07:00-22:00, off continuously
Block A2- Kitchen	11.07	0.25	2.09, 0.86	0.0, 0.0	0.0	off continuously
Block A1- 2B4P KLD	20.62	0.25	1.76, 1.76, 1.89	0.0, 0.0, 80.0	4.26	on continuously, off continuously
Block A AH1- bed	10.41	0.52	1.57, 1.57, 1.89	0.0, 0.0, 80.0	9.55	DOOR Open 07:00-22:00, off continuously
Block A AH1- bed	9.74	0.25	1.31, 1.31, 1.89	0.0, 0.0, 80.0	9.56	DOOR Open 07:00-22:00, off continuously
Block A AH2- bed	24.48	0.52	1.58, 1.58, 1.89	0.0, 0.0, 80.0	10.67	DOOR Open 07:00-22:00, off continuously
Block A AH2- bed	15.01	0.25	1.31, 1.89	0.0, 80.0	12.1	DOOR Open 07:00-22:00, off continuously
Block A AH3-Bed	24.3	0.52	1.57, 1.58, 1.89	0.0, 0.0, 80.0	10.5	DOOR Open 07:00-22:00, off continuously
Block A AH3-Bed	26.31	0.25	1.31, 1.31, 1.89	0.0, 0.0, 80.0	11.25	DOOR Open 07:00-22:00, off continuously
Block A AH4- bed	22.83	0.52	1.57, 1.58, 1.89	0.0, 0.0, 80.0	8.97	DOOR Open 07:00-22:00, off continuously
Block A AH4- bed	15.9	0.25	1.89, 1.78	80.0, 0.0	9.99	DOOR Open 07:00-22:00, off continuously
Block A AH5- bed	24.14	0.52	1.58, 1.57, 1.89	0.0, 0.0, 80.0	10.07	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A AH5-bed	18.41	0.25	1.79, 1.89	0.0, 80.0	11.63	DOOR Open 07:00-22:00, off continuously
Block A AH6- bed	25.24	0.52	1.58, 1.58, 1.89	0.0, 0.0, 80.0	11.0	DOOR Open 07:00-22:00, off continuously
Block A AH6- bed	19.0	0.25	1.79, 1.89	0.0, 80.0	11.93	DOOR Open 07:00-22:00, off continuously
Block A2-bed	12.69	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	8.08	DOOR Open 07:00-22:00, off continuously
Block A3-Bed	13.86	0.52, 0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	9.44	DOOR Open 07:00-22:00, off continuously
Block A3-2B4P KLD	11.53	0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	4.63	on continuously, off continuously
Block A3-Bed	34.97	0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	8.77	DOOR Open 07:00-22:00, off continuously
Block A AH6- BED	26.4	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.44	DOOR Open 07:00-22:00, off continuously
Block A AH5- bed	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH2- BED	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH3- BED	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH4-BED	22.19	0.52	1.89, 1.3, 1.3, 1.3	80.0, 0.0, 0.0, 0.0	7.26	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A AH1- BED	13.77	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	7.27	DOOR Open 07:00-22:00, off continuously
Block A4-bed	9.04	0.25	1.76, 1.76, 0.05, 1.84	0.0, 0.0, 80.0, 80.0	6.68	DOOR Open 07:00-22:00, off continuously
Block A4-Study	15.68	0.25	1.76, 1.76, 1.89	0.0, 0.0, 80.0	12.03	DOOR Open 07:00-22:00, off continuously
Block B7- bed	7.29	0.25	1.86	0.0	0.0	off continuously
Block B7- Sbed	17.25	0.25	1.86	0.0	0.0	off continuously
Block B6- bath	0.0				0.0	
Block B6- bed	15.67	0.52, 0.52	2.07, 1.86, 1.89	0.0, 0.0, 80.0	9.32	DOOR Open 07:00-22:00, off continuously
Block B6- bed	11.98	0.25	1.66, 1.89	0.0, 80.0	10.78	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- 4B8P KLD	26.87	0.52, 0.25	1.89, 2.42, 2.42, 2.42, 2.42, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.53	on continuously, off continuously
Block B MH3- 4B8P KLD	48.97	0.52, 0.25	1.95, 1.89, 2.64, 2.64, 2.64, 2.64	0.0, 80.0, 0.0, 0.0, 0.0, 0.0	3.83	on continuously, off continuously
Block B MH2- 4B8P KLD	44.92	0.25, 0.52	2.42, 2.42, 2.42, 2.42, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.82	on continuously, off continuously
Block B MH1- 4B8P KLD	41.95	0.25, 0.52	2.42, 2.42, 2.42, 2.42, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.61	on continuously, off continuously
Block B2- bed	0.0		1.98	80.0	8.22	DOOR Open 07:00-22:00
Block B MH2- Bed	22.49	0.52	1.43, 1.43, 1.89	0.0, 0.0, 80.0	11.66	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block B MH3-bed	22.3	0.52	2.82, 1.89	0.0, 80.0	11.38	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- Study	7.51	0.52	2.07, 1.89	0.0, 80.0	7.84	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	11.35	0.25	1.68, 1.89	0.0, 80.0	9.47	DOOR Open 07:00-22:00, off continuously
Block B MH1-bed	8.59	0.25	1.68, 1.89	0.0, 80.0	9.91	DOOR Open 07:00-22:00, off continuously
Block B MH2-bed	13.68	0.25	2.07, 1.89	0.0, 80.0	9.72	DOOR Open 07:00-22:00, off continuously
Block B5- sbed	14.32	0.25	1.89, 2.73	80.0, 0.0	11.69	DOOR Open 07:00-22:00, off continuously
Block B5- 2B3P KLD	19.59	0.25, 0.25, 0.25	2.1, 0.63, 1.89, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 80.0	4.89	on continuously, off continuously
Block C8- 3B5P KLD	15.61	0.25, 0.52, 0.25, 0.25	1.89, 2.53, 2.53, 1.89, 0.82, 0.82	80.0, 0.0, 0.0, 0.0, 0.0, 0.0	3.85	on continuously, off continuously
Block B4-Bed	28.62	0.52, 0.52	1.89, 1.86, 1.86	80.0, 0.0, 0.0	10.15	DOOR Open 07:00-22:00, off continuously
Block A1- bed	8.01	0.52, 0.25	1.05, 1.89, 0.89	0.0, 80.0, 0.0	11.43	DOOR Open 07:00-22:00, off continuously
Block A AH1- 4B7P KLD	9.25	0.25, 0.52	1.89, 1.78, 2.64	80.0, 0.0, 0.0	3.23	on continuously, off continuously
Block B MH1-bed	22.04	0.52	2.52, 1.89	0.0, 80.0	10.69	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
BLOCK B MH1- Study	13.18	0.52	2.52, 1.89	0.0, 80.0	7.7	DOOR Open 07:00-22:00, off continuously
Block B2-bed	16.3	0.52, 0.52	1.89, 1.89, 1.68	80.0, 0.0, 0.0	9.19	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	18.88	0.52	2.02, 1.98	0.0, 80.0	11.7	DOOR Open 07:00-22:00, off continuously
BLOCK B MH3- Study	10.85	0.52	2.52, 1.89	0.0, 80.0	8.2	DOOR Open 07:00-22:00, off continuously
Block B MH3-Bed	10.78	0.25	1.68, 1.89	0.0, 80.0	9.45	DOOR Open 07:00-22:00, off continuously
BLOCK B MH2- Study	10.95	0.52	2.52, 1.88	0.0, 80.0	7.98	DOOR Open 07:00-22:00, off continuously
CORRIDOR- BLOCK C	0.0				0.0	
Block C7- Bed	3.01	0.25	1.89, 0.82	80.0, 0.0	10.07	DOOR Open 07:00-22:00, off continuously
Block B2-bed	73.94	0.25	1.89, 1.88	80.0, 0.0	12.38	DOOR Open 07:00-22:00, off continuously

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Modelled ventilation

Room name	Infiltration rate ACH	Mech vent flow rate ACH
Block C1- 2B3P KLD	0.15	0.81
Block C1- bed	0.15	0.68
CORRIDOR- BLOCK C	0.15	0
Block C2- bed	0.15	0.68
Block C3- 1B2P KLD	0.15	0.5
Block A AH1- Study	0.15	1.39
Block A AH2- Study	0.15	1.55
Block A AH3- Study	0.15	1.49
Block A AH4- Study	0.15	1.33
Block A AH5- Study	0.15	1.44
Block A AH6- Study	0.15	1.59
Block C4 - Bed	0.15	0.54
Block C5-bed	0.15	0.54
Block C6- 1B2P KLD	0.15	0.4
Block C4 - 2B3P KLD	0.15	0.73
CORRIDOR-BLOCK B	0.15	0
Block B2- bed	0.15	4.94
Block B2- 2B4P KLD	0.15	0.84
Block B3-Sbed	0.15	1.01
Block B2-2B4P KLD	0.15	0.77
Block B MH1- Bed	0.15	0.89
Block B MH2- Bed	0.15	0.93
Block B MH3-bed	0.15	0.92
BLOCK B MH4- bed	0.15	0.89
Block B3-BED	0.15	3.64
Block C7- 1B2P KLD	0.15	0.57
Block C8- Sbed	0.15	6.39
Block C8- bed	0.15	4.12
Block C8- bed	0.15	1.0
Block B4- 2B4P KLD	0.15	0.76
Block B4- bed	0.15	1.06
Block B6- 2B4P KLD	0.15	0.77
Block B7- 2B3P KLD	0.15	0.79
CORRIDOR- BLOCK C	0.15	0
Block A4-3B5P KLD	0.15	0.59
Block A4-bed	0.15	4.77
Block B3-2B3P KLD	0.15	0.79
Block C3- bed	0.15	0.63
Block C1- Sbed	0.15	1.02
Block C2- 1B2P KLD	0.15	0.46

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Room name	Infiltration rate ACH	Mech vent flow rate ACH
Block C4 - Sbed	0.15	0.93
Block C6- bed	0.15	0.51
Block C5-1B2P KLD	0.15	0.36
Block B5- bed	0.15	0.84
Block A AH2- 4B7P KLD	0.15	0.52
Block A AH3- 4B7P KLD	0.15	0.52
Block A2- 1B2P LD	0.15	0.99
Block A AH6- 4B7P KLD	0.15	0.54
Block A AH4- 4B7P KLD	0.15	0.49
Block A AH5- 4B7P KLD	0.15	0.51
Block A1- bed	0.15	0.82
Block A2- Kitchen	0.15	1.4
Block A1- 2B4P KLD	0.15	0.62
Block A AH1- bed	0.15	0.69
Block A AH1- bed	0.15	0.69
Block A AH2- bed	0.15	0.77
Block A AH2- bed	0.15	0.87
Block A AH3-Bed	0.15	0.76
Block A AH3-Bed	0.15	0.81
Block A AH4- bed	0.15	0.65
Block A AH4- bed	0.15	0.72
Block A AH5- bed	0.15	0.73
Block A AH5-bed	0.15	0.84
Block A AH6- bed	0.15	0.79
Block A AH6- bed	0.15	0.86
Block A2-bed	0.15	0.58
Block A3-Bed	0.15	0.68
Block A3-2B4P KLD	0.15	0.67
Block A3-Bed	0.15	0.63
Block A AH6- BED	0.15	4.19
Block A AH5- bed	0.15	3.97
Block A AH2- BED	0.15	3.97
Block A AH3- BED	0.15	3.97
Block A AH4-BED	0.15	3.6
Block A AH1- BED	0.15	3.61
Block A4-bed	0.15	0.48
Block A4-Study	0.15	0.87
Block B7- bed	0.15	0.73
Block B7- Sbed	0.15	1.02
Block B6- bath	0.15	4.87
Block B6- bed	0.15	0.79
Block B6- bed	0.15	0.92

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Room name	Infiltration rate ACH	Mech vent flow rate ACH
BLOCK B MH4- 4B8P KLD	0.15	0.6
Block B MH3- 4B8P KLD	0.15	0.65
Block B MH2- 4B8P KLD	0.15	0.65
Block B MH1- 4B8P KLD	0.15	0.61
Block B2- bed	0.15	0.67
Block B MH2- Bed	0.15	0.99
Block B MH3-bed	0.15	0.97
BLOCK B MH4- Study	0.15	0.67
BLOCK B MH4- bed	0.15	0.81
Block B MH1-bed	0.15	0.84
Block B MH2-bed	0.15	0.84
Block B5- sbed	0.15	4.97
Block B5- 2B3P KLD	0.15	0.83
Block C8- 3B5P KLD	0.15	0.65
Block B4-Bed	0.15	0.86
Block A1- bed	0.15	4.12
Block A AH1- 4B7P KLD	0.15	0.47
Block B MH1-bed	0.15	0.91
BLOCK B MH1- Study	0.15	0.66
Block B2-bed	0.15	0.78
BLOCK B MH4- bed	0.15	0.95
BLOCK B MH3- Study	0.15	0.7
Block B MH3-Bed	0.15	0.8
BLOCK B MH2- Study	0.15	0.68
CORRIDOR- BLOCK C	0.15	0
Block C7- Bed	0.15	4.28
Block B2-bed	0.15	1.05

APPENDIX C

Detailed Simulation Results by Weather Scenario

Approved Document O report
Overheating risk in residential buildings
for
Hornsey Police Station

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Building details

Project name: Hornsey Police Station	Date: 30-05-2025 15:19:01
Location: London City Ap, United Kingdom	
Address: London	
Building use: Residential	
Are there any security, noise, or pollution issues: Yes	

Designer's details

Designer's name:
Designer's organisation:
Designer's address:

Dynamic thermal model

Software: IESVE version 2024.1.0.0	
Weather file: London_LWC_DSY2_2020High50.epw	
Results file: DSY2_2020H50.aps	
Number of rooms analysed: 109	
TM59: summer elevated air speed: 0.1	
TM59: occupant category: Category II (normal)	
Overheating mitigation strategy: External Blinds, MVHR with Extract Fan	
Has the building construction proposal been modelled accurately?	YES
Have the analysed rooms passed the assessment for Approved Doc O Dynamic Thermal Modelling Method (CIBSE TM 59)?	YES
Designer's signature:	

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Summary

CIBSE TM59 overheating methodology for predominantly naturally ventilated rooms assesses against two criteria, (a) and (b) (for Category I occupancy, T_{max} is reduced by 1K):

- Criterion (a) states that for living rooms, kitchens and bedrooms, the number of hours during which ΔT is greater than or equal to 1K from May to September (or November to March for southern hemisphere locations) shall not exceed 3% of occupied hours
- Criterion (b) states that the operative temperature of the bedrooms from 22:00-07:00 shall not exceed 26°C for more than 1% of annual hours (33 hours is therefore recorded as a fail). Approved document O applies limits to CIBSE TM59 section 3.3 (openings); these requirements are applied by appropriate assignment of MacroFlo types / scripted profiles in the model (see Modelled Openings Section).

CIBSE TM59 overheating methodology for predominantly mechanically ventilated rooms states the operative temperature of all rooms shall not exceed 26°C for more than 3% of annual occupied hours.

CIBSE TM59 also states that the inclusion of corridors in the overheating analysis is mandatory where community heating pipework runs through them. While there is no mandatory target for communal corridors, if an operative temperature of 28°C is exceeded for more than 3% of the total annual hours this should be identified as a significant risk.

Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block C1- 2B3P KLD	-	-	Pass	-
Block C1- bed	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block C2- bed	-	-	Pass	-
Block C3- 1B2P KLD	-	-	Pass	-
Block A AH1- Study	-	-	Pass	-
Block A AH2- Study	-	-	Pass	-
Block A AH3- Study	-	-	Pass	-
Block A AH4- Study	-	-	Pass	-
Block A AH5- Study	-	-	Pass	-
Block A AH6- Study	-	-	Pass	-
Block C4 - Bed	-	-	Pass	-
Block C5-bed	-	-	Pass	-
Block C6- 1B2P KLD	-	-	Pass	-
Block C4 - 2B3P KLD	-	-	Pass	-
CORRIDOR-BLOCK B	-	-	-	No
Block B2- bed	-	-	Pass	-
Block B2- 2B4P KLD	-	-	Pass	-
Block B3-Sbed	-	-	Pass	-
Block B2-2B4P KLD	-	-	Pass	-
Block B MH1- Bed	-	-	Pass	-
Block B MH2- Bed	-	-	Pass	-
Block B MH3-bed	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
Block B3-BED	-	-	Pass	-
Block C7- 1B2P KLD	-	-	Pass	-
Block C8- Sbed	-	-	Pass	-
Block C8- bed	-	-	Pass	-
Block C8- bed	-	-	Pass	-

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Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block B4- 2B4P KLD	-	-	Pass	-
Block B4- bed	-	-	Pass	-
Block B6- 2B4P KLD	-	-	Pass	-
Block B7- 2B3P KLD	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block A4-3B5P KLD	-	-	Pass	-
Block A4-bed	-	-	Pass	-
Block B3-2B3P KLD	-	-	Pass	-
Block C3- bed	-	-	Pass	-
Block C1- Sbed	-	-	Pass	-
Block C2- 1B2P KLD	-	-	Pass	-
Block C4 - Sbed	-	-	Pass	-
Block C6- bed	-	-	Pass	-
Block C5-1B2P KLD	-	-	Pass	-
Block B5- bed	-	-	Pass	-
Block A AH2- 4B7P KLD	-	-	Pass	-
Block A AH3- 4B7P KLD	-	-	Pass	-
Block A2- 1B2P LD	-	-	Pass	-
Block A AH6- 4B7P KLD	-	-	Pass	-
Block A AH4- 4B7P KLD	-	-	Pass	-
Block A AH5- 4B7P KLD	-	-	Pass	-
Block A1- bed	-	-	Pass	-
Block A2- Kitchen	-	-	Pass	-
Block A1- 2B4P KLD	-	-	Pass	-
Block A AH1- bed	-	-	Pass	-
Block A AH1- bed	-	-	Pass	-
Block A AH2- bed	-	-	Pass	-
Block A AH2- bed	-	-	Pass	-
Block A AH3-Bed	-	-	Pass	-
Block A AH3-Bed	-	-	Pass	-
Block A AH4- bed	-	-	Pass	-
Block A AH4- bed	-	-	Pass	-
Block A AH5- bed	-	-	Pass	-
Block A AH5-bed	-	-	Pass	-
Block A AH6- bed	-	-	Pass	-
Block A AH6- bed	-	-	Pass	-
Block A2-bed	-	-	Pass	-
Block A3-Bed	-	-	Pass	-
Block A3-2B4P KLD	-	-	Pass	-
Block A3-Bed	-	-	Pass	-
Block A AH6- BED	-	-	Pass	-
Block A AH5- bed	-	-	Pass	-

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Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block A AH2- BED	-	-	Pass	-
Block A AH3- BED	-	-	Pass	-
Block A AH4-BED	-	-	Pass	-
Block A AH1- BED	-	-	Pass	-
Block A4-bed	-	-	Pass	-
Block A4-Study	-	-	Pass	-
Block B7- bed	-	-	Pass	-
Block B7- Sbed	-	-	Pass	-
Block B6- bath	-	-	Pass	-
Block B6- bed	-	-	Pass	-
Block B6- bed	-	-	Pass	-
BLOCK B MH4- 4B8P KLD	-	-	Pass	-
Block B MH3- 4B8P KLD	-	-	Pass	-
Block B MH2- 4B8P KLD	-	-	Pass	-
Block B MH1- 4B8P KLD	-	-	Pass	-
Block B2- bed	-	-	Pass	-
Block B MH2- Bed	-	-	Pass	-
Block B MH3-bed	-	-	Pass	-
BLOCK B MH4- Study	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
Block B MH1-bed	-	-	Pass	-
Block B MH2-bed	-	-	Pass	-
Block B5- sbed	-	-	Pass	-
Block B5- 2B3P KLD	-	-	Pass	-
Block C8- 3B5P KLD	-	-	Pass	-
Block B4-Bed	-	-	Pass	-
Block A1- bed	-	-	Pass	-
Block A AH1- 4B7P KLD	-	-	Pass	-
Block B MH1-bed	-	-	Pass	-
BLOCK B MH1- Study	-	-	Pass	-
Block B2-bed	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
BLOCK B MH3- Study	-	-	Pass	-
Block B MH3-Bed	-	-	Pass	-
BLOCK B MH2- Study	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block C7- Bed	-	-	Pass	-
Block B2-bed	-	-	Pass	-

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Naturally ventilated rooms – criterion (a)

Criterion (a) states that for living rooms, kitchens and bedrooms, the number of hours during which ΔT is greater than or equal to 1K from May to September (or November to March for southern hemisphere locations) shall not exceed 3% of occupied hours.

Room name	Occupied hours	No. hours $\Delta T \geq 1^\circ\text{K}$	% Occupied hours $\Delta T \geq 1^\circ\text{K}$	Criterion a check
No nat vent rooms	N/A	N/A	N/A	N/A

Naturally ventilated rooms – criterion (b)

Criterion (b) states that the operative temperature of the bedrooms from 22:00-07:00 shall not exceed 26°C for more than 1% of annual hours (33 hours is therefore recorded as a fail). Any rooms that are not bedrooms are therefore not assessed, hence the corresponding N/A values.

Room name	No. hours > 26°C 22:00-24:00	No. hours > 26°C 00:00-07:00	Total hours > 26°C	Criterion b check
No nat vent rooms	N/A	N/A	N/A	N/A

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Mechanically ventilated rooms

CIBSE TM59 overheating methodology for predominantly mech. vent. rooms states the operative temperature of all rooms shall not exceed 26°C for more than 3% of annual occupied hours.

Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
Block C1- 2B3P KLD	0	0.0	Pass
Block C1- bed	0	0.0	Pass
Block C2- bed	0	0.0	Pass
Block C3- 1B2P KLD	0	0.0	Pass
Block A AH1- Study	0	0.0	Pass
Block A AH2- Study	0	0.0	Pass
Block A AH3- Study	0	0.0	Pass
Block A AH4- Study	0	0.0	Pass
Block A AH5- Study	0	0.0	Pass
Block A AH6- Study	0	0.0	Pass
Block C4 - Bed	0	0.0	Pass
Block C5-bed	0	0.0	Pass
Block C6- 1B2P KLD	0	0.0	Pass
Block C4 - 2B3P KLD	0	0.0	Pass
Block B2- bed	0	0.0	Pass
Block B2- 2B4P KLD	0	0.0	Pass
Block B3-Sbed	0	0.0	Pass
Block B2-2B4P KLD	0	0.0	Pass
Block B MH1- Bed	0	0.0	Pass
Block B MH2- Bed	0	0.0	Pass
Block B MH3-bed	0	0.0	Pass
BLOCK B MH4- bed	0	0.0	Pass
Block B3-BED	0	0.0	Pass
Block C7- 1B2P KLD	0	0.0	Pass
Block C8- Sbed	0	0.0	Pass
Block C8- bed	0	0.0	Pass
Block C8- bed	0	0.0	Pass
Block B4- 2B4P KLD	0	0.0	Pass
Block B4- bed	0	0.0	Pass
Block B6- 2B4P KLD	0	0.0	Pass
Block B7- 2B3P KLD	0	0.0	Pass
Block A4-3B5P KLD	0	0.0	Pass
Block A4-bed	0	0.0	Pass
Block B3-2B3P KLD	0	0.0	Pass
Block C3- bed	0	0.0	Pass
Block C1- Sbed	0	0.0	Pass
Block C2- 1B2P KLD	0	0.0	Pass

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Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
Block C4 - Sbed	0	0.0	Pass
Block C6- bed	0	0.0	Pass
Block C5-1B2P KLD	0	0.0	Pass
Block B5- bed	0	0.0	Pass
Block A AH2- 4B7P KLD	1	0.0	Pass
Block A AH3- 4B7P KLD	4	0.1	Pass
Block A2- 1B2P LD	0	0.0	Pass
Block A AH6- 4B7P KLD	0	0.0	Pass
Block A AH4- 4B7P KLD	0	0.0	Pass
Block A AH5- 4B7P KLD	0	0.0	Pass
Block A1- bed	0	0.0	Pass
Block A2- Kitchen	0	0.0	Pass
Block A1- 2B4P KLD	0	0.0	Pass
Block A AH1- bed	0	0.0	Pass
Block A AH1- bed	0	0.0	Pass
Block A AH2- bed	0	0.0	Pass
Block A AH2- bed	0	0.0	Pass
Block A AH3-Bed	0	0.0	Pass
Block A AH3-Bed	0	0.0	Pass
Block A AH4- bed	0	0.0	Pass
Block A AH4- bed	0	0.0	Pass
Block A AH5- bed	0	0.0	Pass
Block A AH5-bed	0	0.0	Pass
Block A AH6- bed	0	0.0	Pass
Block A AH6- bed	0	0.0	Pass
Block A2-bed	0	0.0	Pass
Block A3-Bed	0	0.0	Pass
Block A3-2B4P KLD	0	0.0	Pass
Block A3-Bed	0	0.0	Pass
Block A AH6- BED	0	0.0	Pass
Block A AH5- bed	0	0.0	Pass
Block A AH2- BED	0	0.0	Pass
Block A AH3- BED	0	0.0	Pass
Block A AH4-BED	0	0.0	Pass
Block A AH1- BED	0	0.0	Pass
Block A4-bed	0	0.0	Pass
Block A4-Study	0	0.0	Pass
Block B7- bed	0	0.0	Pass
Block B7- Sbed	0	0.0	Pass
Block B6- bath	0	0.0	Pass
Block B6- bed	0	0.0	Pass
Block B6- bed	0	0.0	Pass

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Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
BLOCK B MH4- 4B8P KLD	0	0.0	Pass
Block B MH3- 4B8P KLD	0	0.0	Pass
Block B MH2- 4B8P KLD	0	0.0	Pass
Block B MH1- 4B8P KLD	5	0.1	Pass
Block B2- bed	0	0.0	Pass
Block B MH2- Bed	0	0.0	Pass
Block B MH3-bed	0	0.0	Pass
BLOCK B MH4- Study	0	0.0	Pass
BLOCK B MH4- bed	0	0.0	Pass
Block B MH1-bed	0	0.0	Pass
Block B MH2-bed	0	0.0	Pass
Block B5- sbed	0	0.0	Pass
Block B5- 2B3P KLD	0	0.0	Pass
Block C8- 3B5P KLD	0	0.0	Pass
Block B4-Bed	0	0.0	Pass
Block A1- bed	0	0.0	Pass
Block A AH1- 4B7P KLD	0	0.0	Pass
Block B MH1-bed	0	0.0	Pass
BLOCK B MH1- Study	0	0.0	Pass
Block B2-bed	0	0.0	Pass
BLOCK B MH4- bed	0	0.0	Pass
BLOCK B MH3- Study	0	0.0	Pass
Block B MH3-Bed	0	0.0	Pass
BLOCK B MH2- Study	0	0.0	Pass
Block C7- Bed	0	0.0	Pass
Block B2-bed	0	0.0	Pass

Communal corridors

CIBSE TM59 states that whilst there is no mandatory target for communal corridors, if an operative temperature of 28°C is exceeded for more than 3% of annual hours, then this should be identified as a significant risk within the TM59 overheating report.

Room name	No. hours > 28°C	% Annual hours > 28°C	Corridor overheating risk check
CORRIDOR- BLOCK C	0	0.0	No
CORRIDOR-BLOCK B	0	0.0	No
CORRIDOR- BLOCK C	0	0.0	No
CORRIDOR- BLOCK C	0	0.0	No

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Modelled details & overheating mitigation strategy

Approved document O: Providing Information & Appendix B requires information about the model and the overheating mitigation strategy. The following tables detail the modelling method and mitigation strategies applied to each analysed room. Where multiple active openings per space (windows & louvres) exist they are all listed. Occupancy, equipment and lighting profiles for occupied rooms comply with TM59 section 5.

Modelled occupancy

Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block C1- 2B3P KLD	30.36	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C1- bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
CORRIDOR- BLOCK C	18.83	TM59 - Circulation - Corridors			on continuously
Block C2- bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C3- 1B2P KLD	28.7	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH1- Study	7.87	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH2- Study	7.05	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH3- Study	7.3	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH4- Study	8.2	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH5- Study	7.56	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH6- Study	7.33	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C4 - Bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C5-bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C6- 1B2P KLD	28.7	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C4 - 2B3P KLD	30.36	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
CORRIDOR-BLOCK B	19.03	TM59 - Circulation - Corridors			on continuously
Block B2- bed	13.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2- 2B4P KLD	30.48	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B3-Sbed	12.73	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-2B4P KLD	33.24	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1- Bed	14.48	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2- Bed	13.79	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B MH3-bed	14.04	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- bed	14.46	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B3-BED	17.65	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C7- 1B2P KLD	29.54	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C8- Sbed	10.07	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C8- bed	15.62	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C8- bed	12.91	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B4- 2B4P KLD	33.92	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B4- bed	12.13	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B6- 2B4P KLD	33.26	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B7- 2B3P KLD	32.52	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
CORRIDOR- BLOCK C	16.65	TM59 - Circulation - Corridors			on continuously

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A4-3B5P KLD	37.07	TM59 - 3 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A4-bed	11.43	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B3-2B3P KLD	32.69	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C3- bed	17.42	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C1- Sbed	11.8	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C2- 1B2P KLD	31.42	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C4 - Sbed	11.81	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C6- bed	17.35	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C5-1B2P KLD	32.03	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B5- bed	15.27	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- 4B7P KLD	41.7	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH3- 4B7P KLD	41.91	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A2- 1B2P LD	16.49	TM59 - 1 Bedroom - Living- with summer bypass	Living Occupancy	Living Occupancy	18-23h
Block A AH6- 4B7P KLD	40.43	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH4- 4B7P KLD	44.81	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH5- 4B7P KLD	42.48	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A1- bed	13.31	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A2- Kitchen	7.77	TM59 - 1 Bedroom - Kitchen with Summer bypass	Kitchen Occupancy	Kitchen Equipment	18-23h
Block A1- 2B4P KLD	35.47	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH1- bed	15.83	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- bed	15.81	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- bed	14.17	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH2- bed	12.5	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3-Bed	14.4	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3-Bed	13.44	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4- bed	16.85	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4- bed	15.14	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5- bed	15.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5-bed	13.0	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- bed	13.75	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- bed	12.67	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A2-bed	18.71	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A3-Bed	16.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A3-2B4P KLD	32.67	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A3-Bed	17.25	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- BED	17.92	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5- bed	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- BED	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3- BED	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4-BED	20.82	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- BED	20.8	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A4-bed	22.63	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A4-Study	12.57	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B7- bed	17.64	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B7- Sbed	12.66	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B6- bath	2.64	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B6- bed	16.23	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B6- bed	14.03	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- 4B8P KLD	42.89	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH3- 4B8P KLD	39.51	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH2- 4B8P KLD	39.57	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1- 4B8P KLD	41.91	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B2- bed	19.26	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2- Bed	12.97	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH3-bed	13.29	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- Study	19.28	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- bed	15.96	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B MH1-bed	15.25	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2-bed	15.56	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B5- sbed	12.93	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B5- 2B3P KLD	30.91	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C8- 3B5P KLD	39.32	TM59 - 3 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B4-Bed	14.9	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A1- bed	13.23	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- 4B7P KLD	46.76	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1-bed	14.14	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH1- Study	19.63	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-bed	16.46	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
BLOCK B MH4- bed	13.54	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH3- Study	18.45	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH3-Bed	16.0	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH2- Study	18.84	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
CORRIDOR- BLOCK C	10.54	TM59 - Circulation - Corridors			on continuously
Block C7- Bed	15.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-bed	12.21	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Modelled openings

Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C1- 2B3P KLD	13.91	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	4.98	on continuously, off continuously
Block C1- bed	24.25	0.52	2.64, 2.64, 1.98, 1.98	0.0, 0.0, 80.0, 80.0	19.56	DOOR Open 07:00-22:00, off continuously
CORRIDOR- BLOCK C	10.46	0.52	2.16, 1.98	0.0, 0.0	0.0	off continuously
Block C2- bed	20.5	0.25	1.79, 1.79, 1.98	0.0, 0.0, 80.0	9.78	DOOR Open 07:00-22:00, off continuously
Block C3- 1B2P KLD	4.96	0.25	1.79, 1.98, 1.89	0.0, 0.0, 80.0	5.27	on continuously, off continuously
Block A AH1- Study	19.88	0.52	2.37, 1.89	0.0, 80.0	19.21	DOOR Open 07:00-22:00, off continuously
Block A AH2- Study	20.79	0.52	2.37, 1.89	0.0, 80.0	21.45	DOOR Open 07:00-22:00, off continuously
Block A AH3- Study	20.96	0.52	2.37, 1.89	0.0, 80.0	20.71	DOOR Open 07:00-22:00, off continuously
Block A AH4- Study	18.7	0.52	2.37, 1.89	0.0, 80.0	18.44	DOOR Open 07:00-22:00, off continuously
Block A AH5- Study	20.04	0.52	2.37, 1.89	0.0, 80.0	20.0	DOOR Open 07:00-22:00, off continuously
Block A AH6- Study	20.63	0.52	2.37, 1.89	0.0, 80.0	20.63	DOOR Open 07:00-22:00, off continuously
Block C4 - Bed	17.52	0.52	2.64, 2.64, 1.89	0.0, 0.0, 80.0	9.33	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C5-bed	19.1	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	9.33	DOOR Open 07:00-22:00, off continuously
Block C6- 1B2P KLD	12.05	0.25, 0.52	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	5.27	on continuously, off continuously
Block C4 - 2B3P KLD	9.47	0.25	1.89, 1.79, 1.79	80.0, 0.0, 0.0	4.98	on continuously, off continuously
CORRIDOR-BLOCK B	18.25	0.25	1.99, 2.11	0.0, 0.0	0.0	off continuously
Block B2- bed	19.35	0.52	1.89, 1.98	0.0, 80.0	12.18	DOOR Open 07:00-22:00, off continuously
Block B2- 2B4P KLD	24.22	0.25, 0.52	3.93, 1.89, 1.89, 1.89	0.0, 0.0, 0.0, 80.0	4.96	on continuously, off continuously
Block B3-Sbed	39.16	0.25	1.86, 1.89	0.0, 80.0	11.88	DOOR Open 07:00-22:00, off continuously
Block B2-2B4P KLD	15.1	0.25, 0.25, 0.52	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.55	on continuously, off continuously
Block B MH1- Bed	8.92	0.25	1.87, 0.01, 0.01, 1.04, 1.04	80.0, 80.0, 80.0, 0.0, 0.0	10.44	DOOR Open 07:00-22:00, off continuously
Block B MH2- Bed	13.13	0.25	1.89, 1.04, 1.04	80.0, 0.0, 0.0	10.96	DOOR Open 07:00-22:00, off continuously
Block B MH3-bed	13.08	0.25	1.89, 1.04, 1.03	80.0, 0.0, 0.0	10.77	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	13.25	0.25	1.98, 1.03, 1.03	80.0, 0.0, 0.0	10.95	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block B3-BED	7.32	0.25	1.89, 1.86	80.0, 0.0	8.57	DOOR Open 07:00-22:00, off continuously
Block C7- 1B2P KLD	18.75	0.25, 0.25, 0.25, 0.52	1.89, 0.82, 0.82, 2.07, 2.53, 2.53	80.0, 0.0, 0.0, 0.0, 0.0, 0.0	5.12	on continuously, off continuously
Block C8- Sbed	8.81	0.25	1.89, 0.82	80.0, 0.0	15.01	DOOR Open 07:00-22:00, off continuously
Block C8- bed	3.16	0.25	1.89, 0.82	80.0, 0.0	9.68	DOOR Open 07:00-22:00, off continuously
Block C8- bed	23.94	0.25	2.07, 1.89	0.0, 80.0	11.71	DOOR Open 07:00-22:00, off continuously
Block B4- 2B4P KLD	23.89	0.25, 0.25, 0.52	2.73, 1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 0.0, 80.0	4.46	on continuously, off continuously
Block B4- bed	42.81	0.25	1.66, 1.89	0.0, 80.0	12.46	DOOR Open 07:00-22:00, off continuously
Block B6- 2B4P KLD	15.76	0.52, 0.25, 0.25	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.55	on continuously, off continuously
Block B7- 2B3P KLD	14.75	0.25, 0.25	2.07, 1.24, 1.86	0.0, 0.0, 0.0	0.0	off continuously
CORRIDOR- BLOCK C	0.0				0.0	
Block A4-3B5P KLD	15.01	0.25, 0.25, 0.52	1.76, 1.76, 2.07, 2.07, 2.07, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	4.08	on continuously, off continuously
Block A4-bed	17.37	0.25	1.89, 1.76	80.0, 0.0	13.23	DOOR Open 07:00-22:00, off continuously
Block B3-2B3P KLD	15.85	0.25, 0.25	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.63	on continuously, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C3- bed	19.39	0.25	2.64, 2.64, 1.89	0.0, 0.0, 80.0	8.68	DOOR Open 07:00-22:00, off continuously
Block C1- Sbed	17.2	0.25	1.79, 1.89	0.0, 80.0	12.81	DOOR Open 07:00-22:00, off continuously
Block C2- 1B2P KLD	14.71	0.25, 0.25	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	4.81	on continuously, off continuously
Block C4 - Sbed	11.82	0.25	1.79, 1.89	0.0, 80.0	12.8	DOOR Open 07:00-22:00, off continuously
Block C6- bed	15.53	0.25	2.64, 2.64, 1.89	0.0, 0.0, 80.0	8.71	DOOR Open 07:00-22:00, off continuously
Block C5-1B2P KLD	10.74	0.25, 0.25	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	4.72	on continuously, off continuously
Block B5- bed	11.02	0.25	1.86, 1.89	0.0, 80.0	9.9	DOOR Open 07:00-22:00, off continuously
Block A AH2- 4B7P KLD	36.89	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.63	on continuously, off continuously
Block A AH3- 4B7P KLD	41.51	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A2- 1B2P LD	22.19	0.25	1.77, 1.77, 1.89	0.0, 0.0, 80.0	9.17	on continuously, off continuously
Block A AH6- 4B7P KLD	44.64	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A AH4- 4B7P KLD	41.79	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.76	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A AH5- 4B7P KLD	43.13	0.25, 0.52	1.76, 2.64, 2.64, 2.64, 2.64	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A1- bed	7.9	0.25	1.76, 1.89	0.0, 80.0	11.36	DOOR Open 07:00-22:00, off continuously
Block A2- Kitchen	11.07	0.25	2.09, 0.86	0.0, 0.0	0.0	off continuously
Block A1- 2B4P KLD	20.62	0.25	1.76, 1.76, 1.89	0.0, 0.0, 80.0	4.26	on continuously, off continuously
Block A AH1- bed	10.41	0.52	1.57, 1.57, 1.89	0.0, 0.0, 80.0	9.55	DOOR Open 07:00-22:00, off continuously
Block A AH1- bed	9.74	0.25	1.31, 1.31, 1.89	0.0, 0.0, 80.0	9.56	DOOR Open 07:00-22:00, off continuously
Block A AH2- bed	24.48	0.52	1.58, 1.58, 1.89	0.0, 0.0, 80.0	10.67	DOOR Open 07:00-22:00, off continuously
Block A AH2- bed	15.01	0.25	1.31, 1.89	0.0, 80.0	12.1	DOOR Open 07:00-22:00, off continuously
Block A AH3-Bed	24.3	0.52	1.57, 1.58, 1.89	0.0, 0.0, 80.0	10.5	DOOR Open 07:00-22:00, off continuously
Block A AH3-Bed	26.31	0.25	1.31, 1.31, 1.89	0.0, 0.0, 80.0	11.25	DOOR Open 07:00-22:00, off continuously
Block A AH4- bed	22.83	0.52	1.57, 1.58, 1.89	0.0, 0.0, 80.0	8.97	DOOR Open 07:00-22:00, off continuously
Block A AH4- bed	15.9	0.25	1.89, 1.78	80.0, 0.0	9.99	DOOR Open 07:00-22:00, off continuously
Block A AH5- bed	24.14	0.52	1.58, 1.57, 1.89	0.0, 0.0, 80.0	10.07	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A AH5-bed	18.41	0.25	1.79, 1.89	0.0, 80.0	11.63	DOOR Open 07:00-22:00, off continuously
Block A AH6- bed	25.24	0.52	1.58, 1.58, 1.89	0.0, 0.0, 80.0	11.0	DOOR Open 07:00-22:00, off continuously
Block A AH6- bed	19.0	0.25	1.79, 1.89	0.0, 80.0	11.93	DOOR Open 07:00-22:00, off continuously
Block A2-bed	12.69	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	8.08	DOOR Open 07:00-22:00, off continuously
Block A3-Bed	13.86	0.52, 0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	9.44	DOOR Open 07:00-22:00, off continuously
Block A3-2B4P KLD	11.53	0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	4.63	on continuously, off continuously
Block A3-Bed	34.97	0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	8.77	DOOR Open 07:00-22:00, off continuously
Block A AH6- BED	26.4	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.44	DOOR Open 07:00-22:00, off continuously
Block A AH5- bed	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH2- BED	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH3- BED	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH4-BED	22.19	0.52	1.89, 1.3, 1.3, 1.3	80.0, 0.0, 0.0, 0.0	7.26	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A AH1- BED	13.77	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	7.27	DOOR Open 07:00-22:00, off continuously
Block A4-bed	9.04	0.25	1.76, 1.76, 0.05, 1.84	0.0, 0.0, 80.0, 80.0	6.68	DOOR Open 07:00-22:00, off continuously
Block A4-Study	15.68	0.25	1.76, 1.76, 1.89	0.0, 0.0, 80.0	12.03	DOOR Open 07:00-22:00, off continuously
Block B7- bed	7.29	0.25	1.86	0.0	0.0	off continuously
Block B7- Sbed	17.25	0.25	1.86	0.0	0.0	off continuously
Block B6- bath	0.0				0.0	
Block B6- bed	15.67	0.52, 0.52	2.07, 1.86, 1.89	0.0, 0.0, 80.0	9.32	DOOR Open 07:00-22:00, off continuously
Block B6- bed	11.98	0.25	1.66, 1.89	0.0, 80.0	10.78	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- 4B8P KLD	26.87	0.52, 0.25	1.89, 2.42, 2.42, 2.42, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.53	on continuously, off continuously
Block B MH3- 4B8P KLD	48.97	0.52, 0.25	1.95, 1.89, 2.64, 2.64, 2.64, 2.64	0.0, 80.0, 0.0, 0.0, 0.0, 0.0	3.83	on continuously, off continuously
Block B MH2- 4B8P KLD	44.92	0.25, 0.52	2.42, 2.42, 2.42, 2.42, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.82	on continuously, off continuously
Block B MH1- 4B8P KLD	41.95	0.25, 0.52	2.42, 2.42, 2.42, 2.42, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.61	on continuously, off continuously
Block B2- bed	0.0		1.98	80.0	8.22	DOOR Open 07:00-22:00
Block B MH2- Bed	22.49	0.52	1.43, 1.43, 1.89	0.0, 0.0, 80.0	11.66	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block B MH3-bed	22.3	0.52	2.82, 1.89	0.0, 80.0	11.38	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- Study	7.51	0.52	2.07, 1.89	0.0, 80.0	7.84	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	11.35	0.25	1.68, 1.89	0.0, 80.0	9.47	DOOR Open 07:00-22:00, off continuously
Block B MH1-bed	8.59	0.25	1.68, 1.89	0.0, 80.0	9.91	DOOR Open 07:00-22:00, off continuously
Block B MH2-bed	13.68	0.25	2.07, 1.89	0.0, 80.0	9.72	DOOR Open 07:00-22:00, off continuously
Block B5- sbed	14.32	0.25	1.89, 2.73	80.0, 0.0	11.69	DOOR Open 07:00-22:00, off continuously
Block B5- 2B3P KLD	19.59	0.25, 0.25, 0.25	2.1, 0.63, 1.89, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 80.0	4.89	on continuously, off continuously
Block C8- 3B5P KLD	15.61	0.25, 0.52, 0.25, 0.25	1.89, 2.53, 2.53, 1.89, 0.82, 0.82	80.0, 0.0, 0.0, 0.0, 0.0, 0.0	3.85	on continuously, off continuously
Block B4-Bed	28.62	0.52, 0.52	1.89, 1.86, 1.86	80.0, 0.0, 0.0	10.15	DOOR Open 07:00-22:00, off continuously
Block A1- bed	8.01	0.52, 0.25	1.05, 1.89, 0.89	0.0, 80.0, 0.0	11.43	DOOR Open 07:00-22:00, off continuously
Block A AH1- 4B7P KLD	9.25	0.25, 0.52	1.89, 1.78, 2.64	80.0, 0.0, 0.0	3.23	on continuously, off continuously
Block B MH1-bed	22.04	0.52	2.52, 1.89	0.0, 80.0	10.69	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
BLOCK B MH1- Study	13.18	0.52	2.52, 1.89	0.0, 80.0	7.7	DOOR Open 07:00-22:00, off continuously
Block B2-bed	16.3	0.52, 0.52	1.89, 1.89, 1.68	80.0, 0.0, 0.0	9.19	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	18.88	0.52	2.02, 1.98	0.0, 80.0	11.7	DOOR Open 07:00-22:00, off continuously
BLOCK B MH3- Study	10.85	0.52	2.52, 1.89	0.0, 80.0	8.2	DOOR Open 07:00-22:00, off continuously
Block B MH3-Bed	10.78	0.25	1.68, 1.89	0.0, 80.0	9.45	DOOR Open 07:00-22:00, off continuously
BLOCK B MH2- Study	10.95	0.52	2.52, 1.88	0.0, 80.0	7.98	DOOR Open 07:00-22:00, off continuously
CORRIDOR- BLOCK C	0.0				0.0	
Block C7- Bed	3.01	0.25	1.89, 0.82	80.0, 0.0	10.07	DOOR Open 07:00-22:00, off continuously
Block B2-bed	73.94	0.25	1.89, 1.88	80.0, 0.0	12.38	DOOR Open 07:00-22:00, off continuously

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Modelled ventilation

Room name	Infiltration rate ACH	Mech vent flow rate ACH
Block C1- 2B3P KLD	0.15	0.81
Block C1- bed	0.15	0.68
CORRIDOR- BLOCK C	0.15	0
Block C2- bed	0.15	0.68
Block C3- 1B2P KLD	0.15	0.5
Block A AH1- Study	0.15	1.39
Block A AH2- Study	0.15	1.55
Block A AH3- Study	0.15	1.49
Block A AH4- Study	0.15	1.33
Block A AH5- Study	0.15	1.44
Block A AH6- Study	0.15	1.59
Block C4 - Bed	0.15	0.54
Block C5-bed	0.15	0.54
Block C6- 1B2P KLD	0.15	0.4
Block C4 - 2B3P KLD	0.15	0.73
CORRIDOR-BLOCK B	0.15	0
Block B2- bed	0.15	4.94
Block B2- 2B4P KLD	0.15	0.84
Block B3-Sbed	0.15	1.01
Block B2-2B4P KLD	0.15	0.77
Block B MH1- Bed	0.15	0.89
Block B MH2- Bed	0.15	0.93
Block B MH3-bed	0.15	0.92
BLOCK B MH4- bed	0.15	0.89
Block B3-BED	0.15	3.64
Block C7- 1B2P KLD	0.15	0.57
Block C8- Sbed	0.15	6.39
Block C8- bed	0.15	4.12
Block C8- bed	0.15	1.0
Block B4- 2B4P KLD	0.15	0.76
Block B4- bed	0.15	1.06
Block B6- 2B4P KLD	0.15	0.77
Block B7- 2B3P KLD	0.15	0.79
CORRIDOR- BLOCK C	0.15	0
Block A4-3B5P KLD	0.15	0.59
Block A4-bed	0.15	4.77
Block B3-2B3P KLD	0.15	0.79
Block C3- bed	0.15	0.63
Block C1- Sbed	0.15	1.02
Block C2- 1B2P KLD	0.15	0.46

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Room name	Infiltration rate ACH	Mech vent flow rate ACH
Block C4 - Sbed	0.15	0.93
Block C6- bed	0.15	0.51
Block C5-1B2P KLD	0.15	0.36
Block B5- bed	0.15	0.84
Block A AH2- 4B7P KLD	0.15	0.52
Block A AH3- 4B7P KLD	0.15	0.52
Block A2- 1B2P LD	0.15	0.99
Block A AH6- 4B7P KLD	0.15	0.54
Block A AH4- 4B7P KLD	0.15	0.49
Block A AH5- 4B7P KLD	0.15	0.51
Block A1- bed	0.15	0.82
Block A2- Kitchen	0.15	1.4
Block A1- 2B4P KLD	0.15	0.62
Block A AH1- bed	0.15	0.69
Block A AH1- bed	0.15	0.69
Block A AH2- bed	0.15	0.77
Block A AH2- bed	0.15	0.87
Block A AH3-Bed	0.15	0.76
Block A AH3-Bed	0.15	0.81
Block A AH4- bed	0.15	0.65
Block A AH4- bed	0.15	0.72
Block A AH5- bed	0.15	0.73
Block A AH5-bed	0.15	0.84
Block A AH6- bed	0.15	0.79
Block A AH6- bed	0.15	0.86
Block A2-bed	0.15	0.58
Block A3-Bed	0.15	0.68
Block A3-2B4P KLD	0.15	0.67
Block A3-Bed	0.15	0.63
Block A AH6- BED	0.15	4.19
Block A AH5- bed	0.15	3.97
Block A AH2- BED	0.15	3.97
Block A AH3- BED	0.15	3.97
Block A AH4-BED	0.15	3.6
Block A AH1- BED	0.15	3.61
Block A4-bed	0.15	0.48
Block A4-Study	0.15	0.87
Block B7- bed	0.15	0.73
Block B7- Sbed	0.15	1.02
Block B6- bath	0.15	4.87
Block B6- bed	0.15	0.79
Block B6- bed	0.15	0.92

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Room name	Infiltration rate ACH	Mech vent flow rate ACH
BLOCK B MH4- 4B8P KLD	0.15	0.6
Block B MH3- 4B8P KLD	0.15	0.65
Block B MH2- 4B8P KLD	0.15	0.65
Block B MH1- 4B8P KLD	0.15	0.61
Block B2- bed	0.15	0.67
Block B MH2- Bed	0.15	0.99
Block B MH3-bed	0.15	0.97
BLOCK B MH4- Study	0.15	0.67
BLOCK B MH4- bed	0.15	0.81
Block B MH1-bed	0.15	0.84
Block B MH2-bed	0.15	0.84
Block B5- sbed	0.15	4.97
Block B5- 2B3P KLD	0.15	0.83
Block C8- 3B5P KLD	0.15	0.65
Block B4-Bed	0.15	0.86
Block A1- bed	0.15	4.12
Block A AH1- 4B7P KLD	0.15	0.47
Block B MH1-bed	0.15	0.91
BLOCK B MH1- Study	0.15	0.66
Block B2-bed	0.15	0.78
BLOCK B MH4- bed	0.15	0.95
BLOCK B MH3- Study	0.15	0.7
Block B MH3-Bed	0.15	0.8
BLOCK B MH2- Study	0.15	0.68
CORRIDOR- BLOCK C	0.15	0
Block C7- Bed	0.15	4.28
Block B2-bed	0.15	1.05

APPENDIX D

Detailed Simulation Results by Weather Scenario

Approved Document O report
Overheating risk in residential buildings
for
Hornsey Police Station

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Building details

Project name: Hornsey Police Station	Date: 30-05-2025 15:19:33
Location: London City Ap, United Kingdom	
Address: London	
Building use: Residential	
Are there any security, noise, or pollution issues: Yes	

Designer's details

Designer's name:
Designer's organisation:
Designer's address:

Dynamic thermal model

Software: IESVE version 2024.1.0.0	
Weather file: London_LWC_DSY3_2020High50.epw	
Results file: DSY3_2020H50.aps	
Number of rooms analysed: 109	
TM59: summer elevated air speed: 0.1	
TM59: occupant category: Category II (normal)	
Overheating mitigation strategy: External Blinds, MVHR with Extract Fan	
Has the building construction proposal been modelled accurately?	YES
Have the analysed rooms passed the assessment for Approved Doc O Dynamic Thermal Modelling Method (CIBSE TM 59)?	YES
Designer's signature:	

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Summary

CIBSE TM59 overheating methodology for predominantly naturally ventilated rooms assesses against two criteria, (a) and (b) (for Category I occupancy, T_{max} is reduced by 1K):

- Criterion (a) states that for living rooms, kitchens and bedrooms, the number of hours during which ΔT is greater than or equal to 1K from May to September (or November to March for southern hemisphere locations) shall not exceed 3% of occupied hours
- Criterion (b) states that the operative temperature of the bedrooms from 22:00-07:00 shall not exceed 26°C for more than 1% of annual hours (33 hours is therefore recorded as a fail). Approved document O applies limits to CIBSE TM59 section 3.3 (openings); these requirements are applied by appropriate assignment of MacroFlo types / scripted profiles in the model (see Modelled Openings Section).

CIBSE TM59 overheating methodology for predominantly mechanically ventilated rooms states the operative temperature of all rooms shall not exceed 26°C for more than 3% of annual occupied hours.

CIBSE TM59 also states that the inclusion of corridors in the overheating analysis is mandatory where community heating pipework runs through them. While there is no mandatory target for communal corridors, if an operative temperature of 28°C is exceeded for more than 3% of the total annual hours this should be identified as a significant risk.

Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block C1- 2B3P KLD	-	-	Pass	-
Block C1- bed	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block C2- bed	-	-	Pass	-
Block C3- 1B2P KLD	-	-	Pass	-
Block A AH1- Study	-	-	Pass	-
Block A AH2- Study	-	-	Pass	-
Block A AH3- Study	-	-	Pass	-
Block A AH4- Study	-	-	Pass	-
Block A AH5- Study	-	-	Pass	-
Block A AH6- Study	-	-	Pass	-
Block C4 - Bed	-	-	Pass	-
Block C5-bed	-	-	Pass	-
Block C6- 1B2P KLD	-	-	Pass	-
Block C4 - 2B3P KLD	-	-	Pass	-
CORRIDOR-BLOCK B	-	-	-	No
Block B2- bed	-	-	Pass	-
Block B2- 2B4P KLD	-	-	Pass	-
Block B3-Sbed	-	-	Pass	-
Block B2-2B4P KLD	-	-	Pass	-
Block B MH1- Bed	-	-	Pass	-
Block B MH2- Bed	-	-	Pass	-
Block B MH3-bed	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
Block B3-BED	-	-	Pass	-
Block C7- 1B2P KLD	-	-	Pass	-
Block C8- Sbed	-	-	Pass	-
Block C8- bed	-	-	Pass	-
Block C8- bed	-	-	Pass	-

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Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block B4- 2B4P KLD	-	-	Pass	-
Block B4- bed	-	-	Pass	-
Block B6- 2B4P KLD	-	-	Pass	-
Block B7- 2B3P KLD	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block A4-3B5P KLD	-	-	Pass	-
Block A4-bed	-	-	Pass	-
Block B3-2B3P KLD	-	-	Pass	-
Block C3- bed	-	-	Pass	-
Block C1- Sbed	-	-	Pass	-
Block C2- 1B2P KLD	-	-	Pass	-
Block C4 - Sbed	-	-	Pass	-
Block C6- bed	-	-	Pass	-
Block C5-1B2P KLD	-	-	Pass	-
Block B5- bed	-	-	Pass	-
Block A AH2- 4B7P KLD	-	-	Pass	-
Block A AH3- 4B7P KLD	-	-	Pass	-
Block A2- 1B2P LD	-	-	Pass	-
Block A AH6- 4B7P KLD	-	-	Pass	-
Block A AH4- 4B7P KLD	-	-	Pass	-
Block A AH5- 4B7P KLD	-	-	Pass	-
Block A1- bed	-	-	Pass	-
Block A2- Kitchen	-	-	Pass	-
Block A1- 2B4P KLD	-	-	Pass	-
Block A AH1- bed	-	-	Pass	-
Block A AH1- bed	-	-	Pass	-
Block A AH2- bed	-	-	Pass	-
Block A AH2- bed	-	-	Pass	-
Block A AH3-Bed	-	-	Pass	-
Block A AH3-Bed	-	-	Pass	-
Block A AH4- bed	-	-	Pass	-
Block A AH4- bed	-	-	Pass	-
Block A AH5- bed	-	-	Pass	-
Block A AH5-bed	-	-	Pass	-
Block A AH6- bed	-	-	Pass	-
Block A AH6- bed	-	-	Pass	-
Block A2-bed	-	-	Pass	-
Block A3-Bed	-	-	Pass	-
Block A3-2B4P KLD	-	-	Pass	-
Block A3-Bed	-	-	Pass	-
Block A AH6- BED	-	-	Pass	-
Block A AH5- bed	-	-	Pass	-

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Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block A AH2- BED	-	-	Pass	-
Block A AH3- BED	-	-	Pass	-
Block A AH4-BED	-	-	Pass	-
Block A AH1- BED	-	-	Pass	-
Block A4-bed	-	-	Pass	-
Block A4-Study	-	-	Pass	-
Block B7- bed	-	-	Pass	-
Block B7- Sbed	-	-	Pass	-
Block B6- bath	-	-	Pass	-
Block B6- bed	-	-	Pass	-
Block B6- bed	-	-	Pass	-
BLOCK B MH4- 4B8P KLD	-	-	Pass	-
Block B MH3- 4B8P KLD	-	-	Pass	-
Block B MH2- 4B8P KLD	-	-	Pass	-
Block B MH1- 4B8P KLD	-	-	Pass	-
Block B2- bed	-	-	Pass	-
Block B MH2- Bed	-	-	Pass	-
Block B MH3-bed	-	-	Pass	-
BLOCK B MH4- Study	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
Block B MH1-bed	-	-	Pass	-
Block B MH2-bed	-	-	Pass	-
Block B5- sbed	-	-	Pass	-
Block B5- 2B3P KLD	-	-	Pass	-
Block C8- 3B5P KLD	-	-	Pass	-
Block B4-Bed	-	-	Pass	-
Block A1- bed	-	-	Pass	-
Block A AH1- 4B7P KLD	-	-	Pass	-
Block B MH1-bed	-	-	Pass	-
BLOCK B MH1- Study	-	-	Pass	-
Block B2-bed	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
BLOCK B MH3- Study	-	-	Pass	-
Block B MH3-Bed	-	-	Pass	-
BLOCK B MH2- Study	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block C7- Bed	-	-	Pass	-
Block B2-bed	-	-	Pass	-

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Naturally ventilated rooms – criterion (a)

Criterion (a) states that for living rooms, kitchens and bedrooms, the number of hours during which ΔT is greater than or equal to 1K from May to September (or November to March for southern hemisphere locations) shall not exceed 3% of occupied hours.

Room name	Occupied hours	No. hours $\Delta T \geq 1^\circ\text{K}$	% Occupied hours $\Delta T \geq 1^\circ\text{K}$	Criterion a check
No nat vent rooms	N/A	N/A	N/A	N/A

Naturally ventilated rooms – criterion (b)

Criterion (b) states that the operative temperature of the bedrooms from 22:00-07:00 shall not exceed 26°C for more than 1% of annual hours (33 hours is therefore recorded as a fail). Any rooms that are not bedrooms are therefore not assessed, hence the corresponding N/A values.

Room name	No. hours > 26°C 22:00-24:00	No. hours > 26°C 00:00-07:00	Total hours > 26°C	Criterion b check
No nat vent rooms	N/A	N/A	N/A	N/A

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Mechanically ventilated rooms

CIBSE TM59 overheating methodology for predominantly mech. vent. rooms states the operative temperature of all rooms shall not exceed 26°C for more than 3% of annual occupied hours.

Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
Block C1- 2B3P KLD	0	0.0	Pass
Block C1- bed	0	0.0	Pass
Block C2- bed	0	0.0	Pass
Block C3- 1B2P KLD	0	0.0	Pass
Block A AH1- Study	0	0.0	Pass
Block A AH2- Study	0	0.0	Pass
Block A AH3- Study	0	0.0	Pass
Block A AH4- Study	0	0.0	Pass
Block A AH5- Study	0	0.0	Pass
Block A AH6- Study	0	0.0	Pass
Block C4 - Bed	0	0.0	Pass
Block C5-bed	0	0.0	Pass
Block C6- 1B2P KLD	0	0.0	Pass
Block C4 - 2B3P KLD	0	0.0	Pass
Block B2- bed	0	0.0	Pass
Block B2- 2B4P KLD	0	0.0	Pass
Block B3-Sbed	0	0.0	Pass
Block B2-2B4P KLD	0	0.0	Pass
Block B MH1- Bed	0	0.0	Pass
Block B MH2- Bed	0	0.0	Pass
Block B MH3-bed	0	0.0	Pass
BLOCK B MH4- bed	6	0.1	Pass
Block B3-BED	0	0.0	Pass
Block C7- 1B2P KLD	0	0.0	Pass
Block C8- Sbed	0	0.0	Pass
Block C8- bed	0	0.0	Pass
Block C8- bed	0	0.0	Pass
Block B4- 2B4P KLD	0	0.0	Pass
Block B4- bed	0	0.0	Pass
Block B6- 2B4P KLD	0	0.0	Pass
Block B7- 2B3P KLD	0	0.0	Pass
Block A4-3B5P KLD	0	0.0	Pass
Block A4-bed	0	0.0	Pass
Block B3-2B3P KLD	0	0.0	Pass
Block C3- bed	0	0.0	Pass
Block C1- Sbed	0	0.0	Pass
Block C2- 1B2P KLD	0	0.0	Pass

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Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
Block C4 - Sbed	0	0.0	Pass
Block C6- bed	0	0.0	Pass
Block C5-1B2P KLD	0	0.0	Pass
Block B5- bed	0	0.0	Pass
Block A AH2- 4B7P KLD	0	0.0	Pass
Block A AH3- 4B7P KLD	3	0.1	Pass
Block A2- 1B2P LD	0	0.0	Pass
Block A AH6- 4B7P KLD	0	0.0	Pass
Block A AH4- 4B7P KLD	0	0.0	Pass
Block A AH5- 4B7P KLD	0	0.0	Pass
Block A1- bed	0	0.0	Pass
Block A2- Kitchen	0	0.0	Pass
Block A1- 2B4P KLD	0	0.0	Pass
Block A AH1- bed	0	0.0	Pass
Block A AH1- bed	0	0.0	Pass
Block A AH2- bed	0	0.0	Pass
Block A AH2- bed	0	0.0	Pass
Block A AH3-Bed	0	0.0	Pass
Block A AH3-Bed	0	0.0	Pass
Block A AH4- bed	0	0.0	Pass
Block A AH4- bed	0	0.0	Pass
Block A AH5- bed	0	0.0	Pass
Block A AH5-bed	0	0.0	Pass
Block A AH6- bed	0	0.0	Pass
Block A AH6- bed	0	0.0	Pass
Block A2-bed	0	0.0	Pass
Block A3-Bed	0	0.0	Pass
Block A3-2B4P KLD	0	0.0	Pass
Block A3-Bed	0	0.0	Pass
Block A AH6- BED	0	0.0	Pass
Block A AH5- bed	0	0.0	Pass
Block A AH2- BED	0	0.0	Pass
Block A AH3- BED	0	0.0	Pass
Block A AH4-BED	0	0.0	Pass
Block A AH1- BED	0	0.0	Pass
Block A4-bed	0	0.0	Pass
Block A4-Study	0	0.0	Pass
Block B7- bed	0	0.0	Pass
Block B7- Sbed	0	0.0	Pass
Block B6- bath	0	0.0	Pass
Block B6- bed	0	0.0	Pass
Block B6- bed	0	0.0	Pass

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Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
BLOCK B MH4- 4B8P KLD	0	0.0	Pass
Block B MH3- 4B8P KLD	0	0.0	Pass
Block B MH2- 4B8P KLD	0	0.0	Pass
Block B MH1- 4B8P KLD	0	0.0	Pass
Block B2- bed	0	0.0	Pass
Block B MH2- Bed	0	0.0	Pass
Block B MH3-bed	0	0.0	Pass
BLOCK B MH4- Study	0	0.0	Pass
BLOCK B MH4- bed	0	0.0	Pass
Block B MH1-bed	0	0.0	Pass
Block B MH2-bed	0	0.0	Pass
Block B5- sbed	0	0.0	Pass
Block B5- 2B3P KLD	0	0.0	Pass
Block C8- 3B5P KLD	0	0.0	Pass
Block B4-Bed	0	0.0	Pass
Block A1- bed	0	0.0	Pass
Block A AH1- 4B7P KLD	0	0.0	Pass
Block B MH1-bed	0	0.0	Pass
BLOCK B MH1- Study	0	0.0	Pass
Block B2-bed	0	0.0	Pass
BLOCK B MH4- bed	72	0.8	Pass
BLOCK B MH3- Study	0	0.0	Pass
Block B MH3-Bed	0	0.0	Pass
BLOCK B MH2- Study	0	0.0	Pass
Block C7- Bed	0	0.0	Pass
Block B2-bed	0	0.0	Pass

Communal corridors

CIBSE TM59 states that whilst there is no mandatory target for communal corridors, if an operative temperature of 28°C is exceeded for more than 3% of annual hours, then this should be identified as a significant risk within the TM59 overheating report.

Room name	No. hours > 28°C	% Annual hours > 28°C	Corridor overheating risk check
CORRIDOR- BLOCK C	0	0.0	No
CORRIDOR-BLOCK B	0	0.0	No
CORRIDOR- BLOCK C	0	0.0	No
CORRIDOR- BLOCK C	0	0.0	No

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Modelled details & overheating mitigation strategy

Approved document O: Providing Information & Appendix B requires information about the model and the overheating mitigation strategy. The following tables detail the modelling method and mitigation strategies applied to each analysed room. Where multiple active openings per space (windows & louvres) exist they are all listed. Occupancy, equipment and lighting profiles for occupied rooms comply with TM59 section 5.

Modelled occupancy

Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block C1- 2B3P KLD	30.36	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C1- bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
CORRIDOR- BLOCK C	18.83	TM59 - Circulation - Corridors			on continuously
Block C2- bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C3- 1B2P KLD	28.7	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH1- Study	7.87	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH2- Study	7.05	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH3- Study	7.3	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH4- Study	8.2	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH5- Study	7.56	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH6- Study	7.33	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C4 - Bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C5-bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C6- 1B2P KLD	28.7	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C4 - 2B3P KLD	30.36	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
CORRIDOR-BLOCK B	19.03	TM59 - Circulation - Corridors			on continuously
Block B2- bed	13.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2- 2B4P KLD	30.48	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B3-Sbed	12.73	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-2B4P KLD	33.24	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1- Bed	14.48	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2- Bed	13.79	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B MH3-bed	14.04	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- bed	14.46	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B3-BED	17.65	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C7- 1B2P KLD	29.54	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C8- Sbed	10.07	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C8- bed	15.62	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C8- bed	12.91	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B4- 2B4P KLD	33.92	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B4- bed	12.13	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B6- 2B4P KLD	33.26	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B7- 2B3P KLD	32.52	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
CORRIDOR- BLOCK C	16.65	TM59 - Circulation - Corridors			on continuously

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A4-3B5P KLD	37.07	TM59 - 3 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A4-bed	11.43	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B3-2B3P KLD	32.69	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C3- bed	17.42	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C1- Sbed	11.8	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C2- 1B2P KLD	31.42	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C4 - Sbed	11.81	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C6- bed	17.35	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C5-1B2P KLD	32.03	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B5- bed	15.27	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- 4B7P KLD	41.7	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH3- 4B7P KLD	41.91	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A2- 1B2P LD	16.49	TM59 - 1 Bedroom - Living- with summer bypass	Living Occupancy	Living Occupancy	18-23h
Block A AH6- 4B7P KLD	40.43	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH4- 4B7P KLD	44.81	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH5- 4B7P KLD	42.48	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A1- bed	13.31	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A2- Kitchen	7.77	TM59 - 1 Bedroom - Kitchen with Summer bypass	Kitchen Occupancy	Kitchen Equipment	18-23h
Block A1- 2B4P KLD	35.47	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH1- bed	15.83	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- bed	15.81	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- bed	14.17	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH2- bed	12.5	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3-Bed	14.4	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3-Bed	13.44	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4- bed	16.85	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4- bed	15.14	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5- bed	15.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5-bed	13.0	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- bed	13.75	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- bed	12.67	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A2-bed	18.71	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A3-Bed	16.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A3-2B4P KLD	32.67	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A3-Bed	17.25	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- BED	17.92	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5- bed	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- BED	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3- BED	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4-BED	20.82	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- BED	20.8	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A4-bed	22.63	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A4-Study	12.57	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B7- bed	17.64	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B7- Sbed	12.66	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B6- bath	2.64	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B6- bed	16.23	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B6- bed	14.03	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- 4B8P KLD	42.89	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH3- 4B8P KLD	39.51	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH2- 4B8P KLD	39.57	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1- 4B8P KLD	41.91	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B2- bed	19.26	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2- Bed	12.97	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH3-bed	13.29	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- Study	19.28	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- bed	15.96	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B MH1-bed	15.25	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2-bed	15.56	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B5- sbed	12.93	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B5- 2B3P KLD	30.91	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C8- 3B5P KLD	39.32	TM59 - 3 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B4-Bed	14.9	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A1- bed	13.23	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- 4B7P KLD	46.76	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1-bed	14.14	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH1- Study	19.63	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-bed	16.46	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
BLOCK B MH4- bed	13.54	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH3- Study	18.45	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH3-Bed	16.0	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH2- Study	18.84	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
CORRIDOR- BLOCK C	10.54	TM59 - Circulation - Corridors			on continuously
Block C7- Bed	15.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-bed	12.21	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Modelled openings

Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C1- 2B3P KLD	13.91	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	4.98	on continuously, off continuously
Block C1- bed	24.25	0.52	2.64, 2.64, 1.98, 1.98	0.0, 0.0, 80.0, 80.0	19.56	DOOR Open 07:00-22:00, off continuously
CORRIDOR- BLOCK C	10.46	0.52	2.16, 1.98	0.0, 0.0	0.0	off continuously
Block C2- bed	20.5	0.25	1.79, 1.79, 1.98	0.0, 0.0, 80.0	9.78	DOOR Open 07:00-22:00, off continuously
Block C3- 1B2P KLD	4.96	0.25	1.79, 1.98, 1.89	0.0, 0.0, 80.0	5.27	on continuously, off continuously
Block A AH1- Study	19.88	0.52	2.37, 1.89	0.0, 80.0	19.21	DOOR Open 07:00-22:00, off continuously
Block A AH2- Study	20.79	0.52	2.37, 1.89	0.0, 80.0	21.45	DOOR Open 07:00-22:00, off continuously
Block A AH3- Study	20.96	0.52	2.37, 1.89	0.0, 80.0	20.71	DOOR Open 07:00-22:00, off continuously
Block A AH4- Study	18.7	0.52	2.37, 1.89	0.0, 80.0	18.44	DOOR Open 07:00-22:00, off continuously
Block A AH5- Study	20.04	0.52	2.37, 1.89	0.0, 80.0	20.0	DOOR Open 07:00-22:00, off continuously
Block A AH6- Study	20.63	0.52	2.37, 1.89	0.0, 80.0	20.63	DOOR Open 07:00-22:00, off continuously
Block C4 - Bed	17.52	0.52	2.64, 2.64, 1.89	0.0, 0.0, 80.0	9.33	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C5-bed	19.1	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	9.33	DOOR Open 07:00-22:00, off continuously
Block C6- 1B2P KLD	12.05	0.25, 0.52	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	5.27	on continuously, off continuously
Block C4 - 2B3P KLD	9.47	0.25	1.89, 1.79, 1.79	80.0, 0.0, 0.0	4.98	on continuously, off continuously
CORRIDOR-BLOCK B	18.25	0.25	1.99, 2.11	0.0, 0.0	0.0	off continuously
Block B2- bed	19.35	0.52	1.89, 1.98	0.0, 80.0	12.18	DOOR Open 07:00-22:00, off continuously
Block B2- 2B4P KLD	24.22	0.25, 0.52	3.93, 1.89, 1.89, 1.89	0.0, 0.0, 0.0, 80.0	4.96	on continuously, off continuously
Block B3-Sbed	39.16	0.25	1.86, 1.89	0.0, 80.0	11.88	DOOR Open 07:00-22:00, off continuously
Block B2-2B4P KLD	15.1	0.25, 0.25, 0.52	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.55	on continuously, off continuously
Block B MH1- Bed	8.92	0.25	1.87, 0.01, 0.01, 1.04, 1.04	80.0, 80.0, 80.0, 0.0, 0.0	10.44	DOOR Open 07:00-22:00, off continuously
Block B MH2- Bed	13.13	0.25	1.89, 1.04, 1.04	80.0, 0.0, 0.0	10.96	DOOR Open 07:00-22:00, off continuously
Block B MH3-bed	13.08	0.25	1.89, 1.04, 1.03	80.0, 0.0, 0.0	10.77	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	13.25	0.25	1.98, 1.03, 1.03	80.0, 0.0, 0.0	10.95	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block B3-BED	7.32	0.25	1.89, 1.86	80.0, 0.0	8.57	DOOR Open 07:00-22:00, off continuously
Block C7- 1B2P KLD	18.75	0.25, 0.25, 0.25, 0.52	1.89, 0.82, 0.82, 2.07, 2.53, 2.53	80.0, 0.0, 0.0, 0.0, 0.0, 0.0	5.12	on continuously, off continuously
Block C8- Sbed	8.81	0.25	1.89, 0.82	80.0, 0.0	15.01	DOOR Open 07:00-22:00, off continuously
Block C8- bed	3.16	0.25	1.89, 0.82	80.0, 0.0	9.68	DOOR Open 07:00-22:00, off continuously
Block C8- bed	23.94	0.25	2.07, 1.89	0.0, 80.0	11.71	DOOR Open 07:00-22:00, off continuously
Block B4- 2B4P KLD	23.89	0.25, 0.25, 0.52	2.73, 1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 0.0, 80.0	4.46	on continuously, off continuously
Block B4- bed	42.81	0.25	1.66, 1.89	0.0, 80.0	12.46	DOOR Open 07:00-22:00, off continuously
Block B6- 2B4P KLD	15.76	0.52, 0.25, 0.25	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.55	on continuously, off continuously
Block B7- 2B3P KLD	14.75	0.25, 0.25	2.07, 1.24, 1.86	0.0, 0.0, 0.0	0.0	off continuously
CORRIDOR- BLOCK C	0.0				0.0	
Block A4-3B5P KLD	15.01	0.25, 0.25, 0.52	1.76, 1.76, 2.07, 2.07, 2.07, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	4.08	on continuously, off continuously
Block A4-bed	17.37	0.25	1.89, 1.76	80.0, 0.0	13.23	DOOR Open 07:00-22:00, off continuously
Block B3-2B3P KLD	15.85	0.25, 0.25	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.63	on continuously, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C3- bed	19.39	0.25	2.64, 2.64, 1.89	0.0, 0.0, 80.0	8.68	DOOR Open 07:00-22:00, off continuously
Block C1- Sbed	17.2	0.25	1.79, 1.89	0.0, 80.0	12.81	DOOR Open 07:00-22:00, off continuously
Block C2- 1B2P KLD	14.71	0.25, 0.25	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	4.81	on continuously, off continuously
Block C4 - Sbed	11.82	0.25	1.79, 1.89	0.0, 80.0	12.8	DOOR Open 07:00-22:00, off continuously
Block C6- bed	15.53	0.25	2.64, 2.64, 1.89	0.0, 0.0, 80.0	8.71	DOOR Open 07:00-22:00, off continuously
Block C5-1B2P KLD	10.74	0.25, 0.25	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	4.72	on continuously, off continuously
Block B5- bed	11.02	0.25	1.86, 1.89	0.0, 80.0	9.9	DOOR Open 07:00-22:00, off continuously
Block A AH2- 4B7P KLD	36.89	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.63	on continuously, off continuously
Block A AH3- 4B7P KLD	41.51	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A2- 1B2P LD	22.19	0.25	1.77, 1.77, 1.89	0.0, 0.0, 80.0	9.17	on continuously, off continuously
Block A AH6- 4B7P KLD	44.64	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A AH4- 4B7P KLD	41.79	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.76	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A AH5- 4B7P KLD	43.13	0.25, 0.52	1.76, 2.64, 2.64, 2.64, 2.64	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A1- bed	7.9	0.25	1.76, 1.89	0.0, 80.0	11.36	DOOR Open 07:00-22:00, off continuously
Block A2- Kitchen	11.07	0.25	2.09, 0.86	0.0, 0.0	0.0	off continuously
Block A1- 2B4P KLD	20.62	0.25	1.76, 1.76, 1.89	0.0, 0.0, 80.0	4.26	on continuously, off continuously
Block A AH1- bed	10.41	0.52	1.57, 1.57, 1.89	0.0, 0.0, 80.0	9.55	DOOR Open 07:00-22:00, off continuously
Block A AH1- bed	9.74	0.25	1.31, 1.31, 1.89	0.0, 0.0, 80.0	9.56	DOOR Open 07:00-22:00, off continuously
Block A AH2- bed	24.48	0.52	1.58, 1.58, 1.89	0.0, 0.0, 80.0	10.67	DOOR Open 07:00-22:00, off continuously
Block A AH2- bed	15.01	0.25	1.31, 1.89	0.0, 80.0	12.1	DOOR Open 07:00-22:00, off continuously
Block A AH3-Bed	24.3	0.52	1.57, 1.58, 1.89	0.0, 0.0, 80.0	10.5	DOOR Open 07:00-22:00, off continuously
Block A AH3-Bed	26.31	0.25	1.31, 1.31, 1.89	0.0, 0.0, 80.0	11.25	DOOR Open 07:00-22:00, off continuously
Block A AH4- bed	22.83	0.52	1.57, 1.58, 1.89	0.0, 0.0, 80.0	8.97	DOOR Open 07:00-22:00, off continuously
Block A AH4- bed	15.9	0.25	1.89, 1.78	80.0, 0.0	9.99	DOOR Open 07:00-22:00, off continuously
Block A AH5- bed	24.14	0.52	1.58, 1.57, 1.89	0.0, 0.0, 80.0	10.07	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A AH5-bed	18.41	0.25	1.79, 1.89	0.0, 80.0	11.63	DOOR Open 07:00-22:00, off continuously
Block A AH6- bed	25.24	0.52	1.58, 1.58, 1.89	0.0, 0.0, 80.0	11.0	DOOR Open 07:00-22:00, off continuously
Block A AH6- bed	19.0	0.25	1.79, 1.89	0.0, 80.0	11.93	DOOR Open 07:00-22:00, off continuously
Block A2-bed	12.69	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	8.08	DOOR Open 07:00-22:00, off continuously
Block A3-Bed	13.86	0.52, 0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	9.44	DOOR Open 07:00-22:00, off continuously
Block A3-2B4P KLD	11.53	0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	4.63	on continuously, off continuously
Block A3-Bed	34.97	0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	8.77	DOOR Open 07:00-22:00, off continuously
Block A AH6- BED	26.4	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.44	DOOR Open 07:00-22:00, off continuously
Block A AH5- bed	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH2- BED	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH3- BED	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH4-BED	22.19	0.52	1.89, 1.3, 1.3, 1.3	80.0, 0.0, 0.0, 0.0	7.26	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A AH1- BED	13.77	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	7.27	DOOR Open 07:00-22:00, off continuously
Block A4-bed	9.04	0.25	1.76, 1.76, 0.05, 1.84	0.0, 0.0, 80.0, 80.0	6.68	DOOR Open 07:00-22:00, off continuously
Block A4-Study	15.68	0.25	1.76, 1.76, 1.89	0.0, 0.0, 80.0	12.03	DOOR Open 07:00-22:00, off continuously
Block B7- bed	7.29	0.25	1.86	0.0	0.0	off continuously
Block B7- Sbed	17.25	0.25	1.86	0.0	0.0	off continuously
Block B6- bath	0.0				0.0	
Block B6- bed	15.67	0.52, 0.52	2.07, 1.86, 1.89	0.0, 0.0, 80.0	9.32	DOOR Open 07:00-22:00, off continuously
Block B6- bed	11.98	0.25	1.66, 1.89	0.0, 80.0	10.78	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- 4B8P KLD	26.87	0.52, 0.25	1.89, 2.42, 2.42, 2.42, 2.42, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.53	on continuously, off continuously
Block B MH3- 4B8P KLD	48.97	0.52, 0.25	1.95, 1.89, 2.64, 2.64, 2.64, 2.64	0.0, 80.0, 0.0, 0.0, 0.0, 0.0	3.83	on continuously, off continuously
Block B MH2- 4B8P KLD	44.92	0.25, 0.52	2.42, 2.42, 2.42, 2.42, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.82	on continuously, off continuously
Block B MH1- 4B8P KLD	41.95	0.25, 0.52	2.42, 2.42, 2.42, 2.42, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.61	on continuously, off continuously
Block B2- bed	0.0		1.98	80.0	8.22	DOOR Open 07:00-22:00
Block B MH2- Bed	22.49	0.52	1.43, 1.43, 1.89	0.0, 0.0, 80.0	11.66	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block B MH3-bed	22.3	0.52	2.82, 1.89	0.0, 80.0	11.38	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- Study	7.51	0.52	2.07, 1.89	0.0, 80.0	7.84	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	11.35	0.25	1.68, 1.89	0.0, 80.0	9.47	DOOR Open 07:00-22:00, off continuously
Block B MH1-bed	8.59	0.25	1.68, 1.89	0.0, 80.0	9.91	DOOR Open 07:00-22:00, off continuously
Block B MH2-bed	13.68	0.25	2.07, 1.89	0.0, 80.0	9.72	DOOR Open 07:00-22:00, off continuously
Block B5- sbed	14.32	0.25	1.89, 2.73	80.0, 0.0	11.69	DOOR Open 07:00-22:00, off continuously
Block B5- 2B3P KLD	19.59	0.25, 0.25, 0.25	2.1, 0.63, 1.89, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 80.0	4.89	on continuously, off continuously
Block C8- 3B5P KLD	15.61	0.25, 0.52, 0.25, 0.25	1.89, 2.53, 2.53, 1.89, 0.82, 0.82	80.0, 0.0, 0.0, 0.0, 0.0, 0.0	3.85	on continuously, off continuously
Block B4-Bed	28.62	0.52, 0.52	1.89, 1.86, 1.86	80.0, 0.0, 0.0	10.15	DOOR Open 07:00-22:00, off continuously
Block A1- bed	8.01	0.52, 0.25	1.05, 1.89, 0.89	0.0, 80.0, 0.0	11.43	DOOR Open 07:00-22:00, off continuously
Block A AH1- 4B7P KLD	9.25	0.25, 0.52	1.89, 1.78, 2.64	80.0, 0.0, 0.0	3.23	on continuously, off continuously
Block B MH1-bed	22.04	0.52	2.52, 1.89	0.0, 80.0	10.69	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
BLOCK B MH1- Study	13.18	0.52	2.52, 1.89	0.0, 80.0	7.7	DOOR Open 07:00-22:00, off continuously
Block B2-bed	16.3	0.52, 0.52	1.89, 1.89, 1.68	80.0, 0.0, 0.0	9.19	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	18.88	0.52	2.02, 1.98	0.0, 80.0	11.7	DOOR Open 07:00-22:00, off continuously
BLOCK B MH3- Study	10.85	0.52	2.52, 1.89	0.0, 80.0	8.2	DOOR Open 07:00-22:00, off continuously
Block B MH3-Bed	10.78	0.25	1.68, 1.89	0.0, 80.0	9.45	DOOR Open 07:00-22:00, off continuously
BLOCK B MH2- Study	10.95	0.52	2.52, 1.88	0.0, 80.0	7.98	DOOR Open 07:00-22:00, off continuously
CORRIDOR- BLOCK C	0.0				0.0	
Block C7- Bed	3.01	0.25	1.89, 0.82	80.0, 0.0	10.07	DOOR Open 07:00-22:00, off continuously
Block B2-bed	73.94	0.25	1.89, 1.88	80.0, 0.0	12.38	DOOR Open 07:00-22:00, off continuously

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Modelled ventilation

Room name	Infiltration rate ACH	Mech vent flow rate ACH
Block C1- 2B3P KLD	0.15	0.81
Block C1- bed	0.15	0.68
CORRIDOR- BLOCK C	0.15	0
Block C2- bed	0.15	0.68
Block C3- 1B2P KLD	0.15	0.5
Block A AH1- Study	0.15	1.39
Block A AH2- Study	0.15	1.55
Block A AH3- Study	0.15	1.49
Block A AH4- Study	0.15	1.33
Block A AH5- Study	0.15	1.44
Block A AH6- Study	0.15	1.59
Block C4 - Bed	0.15	0.54
Block C5-bed	0.15	0.54
Block C6- 1B2P KLD	0.15	0.4
Block C4 - 2B3P KLD	0.15	0.73
CORRIDOR-BLOCK B	0.15	0
Block B2- bed	0.15	4.94
Block B2- 2B4P KLD	0.15	0.84
Block B3-Sbed	0.15	1.01
Block B2-2B4P KLD	0.15	0.77
Block B MH1- Bed	0.15	0.89
Block B MH2- Bed	0.15	0.93
Block B MH3-bed	0.15	0.92
BLOCK B MH4- bed	0.15	0.89
Block B3-BED	0.15	3.64
Block C7- 1B2P KLD	0.15	0.57
Block C8- Sbed	0.15	6.39
Block C8- bed	0.15	4.12
Block C8- bed	0.15	1.0
Block B4- 2B4P KLD	0.15	0.76
Block B4- bed	0.15	1.06
Block B6- 2B4P KLD	0.15	0.77
Block B7- 2B3P KLD	0.15	0.79
CORRIDOR- BLOCK C	0.15	0
Block A4-3B5P KLD	0.15	0.59
Block A4-bed	0.15	4.77
Block B3-2B3P KLD	0.15	0.79
Block C3- bed	0.15	0.63
Block C1- Sbed	0.15	1.02
Block C2- 1B2P KLD	0.15	0.46

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Room name	Infiltration rate ACH	Mech vent flow rate ACH
Block C4 - Sbed	0.15	0.93
Block C6- bed	0.15	0.51
Block C5-1B2P KLD	0.15	0.36
Block B5- bed	0.15	0.84
Block A AH2- 4B7P KLD	0.15	0.52
Block A AH3- 4B7P KLD	0.15	0.52
Block A2- 1B2P LD	0.15	0.99
Block A AH6- 4B7P KLD	0.15	0.54
Block A AH4- 4B7P KLD	0.15	0.49
Block A AH5- 4B7P KLD	0.15	0.51
Block A1- bed	0.15	0.82
Block A2- Kitchen	0.15	1.4
Block A1- 2B4P KLD	0.15	0.62
Block A AH1- bed	0.15	0.69
Block A AH1- bed	0.15	0.69
Block A AH2- bed	0.15	0.77
Block A AH2- bed	0.15	0.87
Block A AH3-Bed	0.15	0.76
Block A AH3-Bed	0.15	0.81
Block A AH4- bed	0.15	0.65
Block A AH4- bed	0.15	0.72
Block A AH5- bed	0.15	0.73
Block A AH5-bed	0.15	0.84
Block A AH6- bed	0.15	0.79
Block A AH6- bed	0.15	0.86
Block A2-bed	0.15	0.58
Block A3-Bed	0.15	0.68
Block A3-2B4P KLD	0.15	0.67
Block A3-Bed	0.15	0.63
Block A AH6- BED	0.15	4.19
Block A AH5- bed	0.15	3.97
Block A AH2- BED	0.15	3.97
Block A AH3- BED	0.15	3.97
Block A AH4-BED	0.15	3.6
Block A AH1- BED	0.15	3.61
Block A4-bed	0.15	0.48
Block A4-Study	0.15	0.87
Block B7- bed	0.15	0.73
Block B7- Sbed	0.15	1.02
Block B6- bath	0.15	4.87
Block B6- bed	0.15	0.79
Block B6- bed	0.15	0.92

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Room name	Infiltration rate ACH	Mech vent flow rate ACH
BLOCK B MH4- 4B8P KLD	0.15	0.6
Block B MH3- 4B8P KLD	0.15	0.65
Block B MH2- 4B8P KLD	0.15	0.65
Block B MH1- 4B8P KLD	0.15	0.61
Block B2- bed	0.15	0.67
Block B MH2- Bed	0.15	0.99
Block B MH3-bed	0.15	0.97
BLOCK B MH4- Study	0.15	0.67
BLOCK B MH4- bed	0.15	0.81
Block B MH1-bed	0.15	0.84
Block B MH2-bed	0.15	0.84
Block B5- sbed	0.15	4.97
Block B5- 2B3P KLD	0.15	0.83
Block C8- 3B5P KLD	0.15	0.65
Block B4-Bed	0.15	0.86
Block A1- bed	0.15	4.12
Block A AH1- 4B7P KLD	0.15	0.47
Block B MH1-bed	0.15	0.91
BLOCK B MH1- Study	0.15	0.66
Block B2-bed	0.15	0.78
BLOCK B MH4- bed	0.15	0.95
BLOCK B MH3- Study	0.15	0.7
Block B MH3-Bed	0.15	0.8
BLOCK B MH2- Study	0.15	0.68
CORRIDOR- BLOCK C	0.15	0
Block C7- Bed	0.15	4.28
Block B2-bed	0.15	1.05

APPENDIX E

Detailed Simulation Results by Weather Scenario

Approved Document O report
Overheating risk in residential buildings
for
Hornsey Police Station

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Building details

Project name: Hornsey Police Station	Date: 30-05-2025 15:20:14
Location: London City Ap, United Kingdom	
Address: London	
Building use: Residential	
Are there any security, noise, or pollution issues: Yes	

Designer's details

Designer's name:
Designer's organisation:
Designer's address:

Dynamic thermal model

Software: IESVE version 2024.1.0.0	
Weather file: London_LWC_DSY1_2050High50.epw	
Results file: DSY1_2050H50.aps	
Number of rooms analysed: 109	
TM59: summer elevated air speed: 0.1	
TM59: occupant category: Category II (normal)	
Overheating mitigation strategy: External Blinds, MVHR with Extract Fan	
Has the building construction proposal been modelled accurately?	YES
Have the analysed rooms passed the assessment for Approved Doc O Dynamic Thermal Modelling Method (CIBSE TM 59)?	YES
Designer's signature:	

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Summary

CIBSE TM59 overheating methodology for predominantly naturally ventilated rooms assesses against two criteria, (a) and (b) (for Category I occupancy, T_{max} is reduced by 1K):

- Criterion (a) states that for living rooms, kitchens and bedrooms, the number of hours during which ΔT is greater than or equal to 1K from May to September (or November to March for southern hemisphere locations) shall not exceed 3% of occupied hours
- Criterion (b) states that the operative temperature of the bedrooms from 22:00-07:00 shall not exceed 26°C for more than 1% of annual hours (33 hours is therefore recorded as a fail). Approved document O applies limits to CIBSE TM59 section 3.3 (openings); these requirements are applied by appropriate assignment of MacroFlo types / scripted profiles in the model (see Modelled Openings Section).

CIBSE TM59 overheating methodology for predominantly mechanically ventilated rooms states the operative temperature of all rooms shall not exceed 26°C for more than 3% of annual occupied hours.

CIBSE TM59 also states that the inclusion of corridors in the overheating analysis is mandatory where community heating pipework runs through them. While there is no mandatory target for communal corridors, if an operative temperature of 28°C is exceeded for more than 3% of the total annual hours this should be identified as a significant risk.

Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block C1- 2B3P KLD	-	-	Pass	-
Block C1- bed	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block C2- bed	-	-	Pass	-
Block C3- 1B2P KLD	-	-	Pass	-
Block A AH1- Study	-	-	Pass	-
Block A AH2- Study	-	-	Pass	-
Block A AH3- Study	-	-	Pass	-
Block A AH4- Study	-	-	Pass	-
Block A AH5- Study	-	-	Pass	-
Block A AH6- Study	-	-	Pass	-
Block C4 - Bed	-	-	Pass	-
Block C5-bed	-	-	Pass	-
Block C6- 1B2P KLD	-	-	Pass	-
Block C4 - 2B3P KLD	-	-	Pass	-
CORRIDOR-BLOCK B	-	-	-	No
Block B2- bed	-	-	Pass	-
Block B2- 2B4P KLD	-	-	Pass	-
Block B3-Sbed	-	-	Pass	-
Block B2-2B4P KLD	-	-	Pass	-
Block B MH1- Bed	-	-	Pass	-
Block B MH2- Bed	-	-	Pass	-
Block B MH3-bed	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
Block B3-BED	-	-	Pass	-
Block C7- 1B2P KLD	-	-	Pass	-
Block C8- Sbed	-	-	Pass	-
Block C8- bed	-	-	Pass	-
Block C8- bed	-	-	Pass	-

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Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block B4- 2B4P KLD	-	-	Pass	-
Block B4- bed	-	-	Pass	-
Block B6- 2B4P KLD	-	-	Pass	-
Block B7- 2B3P KLD	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block A4-3B5P KLD	-	-	Pass	-
Block A4-bed	-	-	Pass	-
Block B3-2B3P KLD	-	-	Pass	-
Block C3- bed	-	-	Pass	-
Block C1- Sbed	-	-	Pass	-
Block C2- 1B2P KLD	-	-	Pass	-
Block C4 - Sbed	-	-	Pass	-
Block C6- bed	-	-	Pass	-
Block C5-1B2P KLD	-	-	Pass	-
Block B5- bed	-	-	Pass	-
Block A AH2- 4B7P KLD	-	-	Pass	-
Block A AH3- 4B7P KLD	-	-	Pass	-
Block A2- 1B2P LD	-	-	Pass	-
Block A AH6- 4B7P KLD	-	-	Pass	-
Block A AH4- 4B7P KLD	-	-	Pass	-
Block A AH5- 4B7P KLD	-	-	Pass	-
Block A1- bed	-	-	Pass	-
Block A2- Kitchen	-	-	Pass	-
Block A1- 2B4P KLD	-	-	Pass	-
Block A AH1- bed	-	-	Pass	-
Block A AH1- bed	-	-	Pass	-
Block A AH2- bed	-	-	Pass	-
Block A AH2- bed	-	-	Pass	-
Block A AH3-Bed	-	-	Pass	-
Block A AH3-Bed	-	-	Pass	-
Block A AH4- bed	-	-	Pass	-
Block A AH4- bed	-	-	Pass	-
Block A AH5- bed	-	-	Pass	-
Block A AH5-bed	-	-	Pass	-
Block A AH6- bed	-	-	Pass	-
Block A AH6- bed	-	-	Pass	-
Block A2-bed	-	-	Pass	-
Block A3-Bed	-	-	Pass	-
Block A3-2B4P KLD	-	-	Pass	-
Block A3-Bed	-	-	Pass	-
Block A AH6- BED	-	-	Pass	-
Block A AH5- bed	-	-	Pass	-

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Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block A AH2- BED	-	-	Pass	-
Block A AH3- BED	-	-	Pass	-
Block A AH4-BED	-	-	Pass	-
Block A AH1- BED	-	-	Pass	-
Block A4-bed	-	-	Pass	-
Block A4-Study	-	-	Pass	-
Block B7- bed	-	-	Pass	-
Block B7- Sbed	-	-	Pass	-
Block B6- bath	-	-	Pass	-
Block B6- bed	-	-	Pass	-
Block B6- bed	-	-	Pass	-
BLOCK B MH4- 4B8P KLD	-	-	Pass	-
Block B MH3- 4B8P KLD	-	-	Pass	-
Block B MH2- 4B8P KLD	-	-	Pass	-
Block B MH1- 4B8P KLD	-	-	Pass	-
Block B2- bed	-	-	Pass	-
Block B MH2- Bed	-	-	Pass	-
Block B MH3-bed	-	-	Pass	-
BLOCK B MH4- Study	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
Block B MH1-bed	-	-	Pass	-
Block B MH2-bed	-	-	Pass	-
Block B5- sbed	-	-	Pass	-
Block B5- 2B3P KLD	-	-	Pass	-
Block C8- 3B5P KLD	-	-	Pass	-
Block B4-Bed	-	-	Pass	-
Block A1- bed	-	-	Pass	-
Block A AH1- 4B7P KLD	-	-	Pass	-
Block B MH1-bed	-	-	Pass	-
BLOCK B MH1- Study	-	-	Pass	-
Block B2-bed	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
BLOCK B MH3- Study	-	-	Pass	-
Block B MH3-Bed	-	-	Pass	-
BLOCK B MH2- Study	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block C7- Bed	-	-	Pass	-
Block B2-bed	-	-	Pass	-

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Naturally ventilated rooms – criterion (a)

Criterion (a) states that for living rooms, kitchens and bedrooms, the number of hours during which ΔT is greater than or equal to 1K from May to September (or November to March for southern hemisphere locations) shall not exceed 3% of occupied hours.

Room name	Occupied hours	No. hours $\Delta T \geq 1^\circ\text{K}$	% Occupied hours $\Delta T \geq 1^\circ\text{K}$	Criterion a check
No nat vent rooms	N/A	N/A	N/A	N/A

Naturally ventilated rooms – criterion (b)

Criterion (b) states that the operative temperature of the bedrooms from 22:00-07:00 shall not exceed 26°C for more than 1% of annual hours (33 hours is therefore recorded as a fail). Any rooms that are not bedrooms are therefore not assessed, hence the corresponding N/A values.

Room name	No. hours > 26°C 22:00-24:00	No. hours > 26°C 00:00-07:00	Total hours > 26°C	Criterion b check
No nat vent rooms	N/A	N/A	N/A	N/A

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Mechanically ventilated rooms

CIBSE TM59 overheating methodology for predominantly mech. vent. rooms states the operative temperature of all rooms shall not exceed 26°C for more than 3% of annual occupied hours.

Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
Block C1- 2B3P KLD	0	0.0	Pass
Block C1- bed	0	0.0	Pass
Block C2- bed	0	0.0	Pass
Block C3- 1B2P KLD	0	0.0	Pass
Block A AH1- Study	0	0.0	Pass
Block A AH2- Study	0	0.0	Pass
Block A AH3- Study	0	0.0	Pass
Block A AH4- Study	0	0.0	Pass
Block A AH5- Study	0	0.0	Pass
Block A AH6- Study	0	0.0	Pass
Block C4 - Bed	0	0.0	Pass
Block C5-bed	0	0.0	Pass
Block C6- 1B2P KLD	0	0.0	Pass
Block C4 - 2B3P KLD	0	0.0	Pass
Block B2- bed	0	0.0	Pass
Block B2- 2B4P KLD	0	0.0	Pass
Block B3-Sbed	0	0.0	Pass
Block B2-2B4P KLD	0	0.0	Pass
Block B MH1- Bed	0	0.0	Pass
Block B MH2- Bed	0	0.0	Pass
Block B MH3-bed	0	0.0	Pass
BLOCK B MH4- bed	0	0.0	Pass
Block B3-BED	0	0.0	Pass
Block C7- 1B2P KLD	0	0.0	Pass
Block C8- Sbed	0	0.0	Pass
Block C8- bed	0	0.0	Pass
Block C8- bed	0	0.0	Pass
Block B4- 2B4P KLD	0	0.0	Pass
Block B4- bed	0	0.0	Pass
Block B6- 2B4P KLD	0	0.0	Pass
Block B7- 2B3P KLD	0	0.0	Pass
Block A4-3B5P KLD	0	0.0	Pass
Block A4-bed	0	0.0	Pass
Block B3-2B3P KLD	0	0.0	Pass
Block C3- bed	0	0.0	Pass
Block C1- Sbed	0	0.0	Pass
Block C2- 1B2P KLD	0	0.0	Pass

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Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
Block C4 - Sbed	0	0.0	Pass
Block C6- bed	0	0.0	Pass
Block C5-1B2P KLD	0	0.0	Pass
Block B5- bed	0	0.0	Pass
Block A AH2- 4B7P KLD	0	0.0	Pass
Block A AH3- 4B7P KLD	7	0.1	Pass
Block A2- 1B2P LD	0	0.0	Pass
Block A AH6- 4B7P KLD	0	0.0	Pass
Block A AH4- 4B7P KLD	0	0.0	Pass
Block A AH5- 4B7P KLD	0	0.0	Pass
Block A1- bed	0	0.0	Pass
Block A2- Kitchen	0	0.0	Pass
Block A1- 2B4P KLD	0	0.0	Pass
Block A AH1- bed	0	0.0	Pass
Block A AH1- bed	0	0.0	Pass
Block A AH2- bed	0	0.0	Pass
Block A AH2- bed	0	0.0	Pass
Block A AH3-Bed	0	0.0	Pass
Block A AH3-Bed	0	0.0	Pass
Block A AH4- bed	0	0.0	Pass
Block A AH4- bed	0	0.0	Pass
Block A AH5- bed	0	0.0	Pass
Block A AH5-bed	0	0.0	Pass
Block A AH6- bed	0	0.0	Pass
Block A AH6- bed	0	0.0	Pass
Block A2-bed	0	0.0	Pass
Block A3-Bed	0	0.0	Pass
Block A3-2B4P KLD	0	0.0	Pass
Block A3-Bed	0	0.0	Pass
Block A AH6- BED	0	0.0	Pass
Block A AH5- bed	0	0.0	Pass
Block A AH2- BED	0	0.0	Pass
Block A AH3- BED	0	0.0	Pass
Block A AH4-BED	0	0.0	Pass
Block A AH1- BED	0	0.0	Pass
Block A4-bed	0	0.0	Pass
Block A4-Study	0	0.0	Pass
Block B7- bed	0	0.0	Pass
Block B7- Sbed	0	0.0	Pass
Block B6- bath	0	0.0	Pass
Block B6- bed	0	0.0	Pass
Block B6- bed	0	0.0	Pass

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Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
BLOCK B MH4- 4B8P KLD	0	0.0	Pass
Block B MH3- 4B8P KLD	0	0.0	Pass
Block B MH2- 4B8P KLD	0	0.0	Pass
Block B MH1- 4B8P KLD	0	0.0	Pass
Block B2- bed	0	0.0	Pass
Block B MH2- Bed	0	0.0	Pass
Block B MH3-bed	0	0.0	Pass
BLOCK B MH4- Study	0	0.0	Pass
BLOCK B MH4- bed	0	0.0	Pass
Block B MH1-bed	0	0.0	Pass
Block B MH2-bed	0	0.0	Pass
Block B5- sbed	0	0.0	Pass
Block B5- 2B3P KLD	0	0.0	Pass
Block C8- 3B5P KLD	0	0.0	Pass
Block B4-Bed	0	0.0	Pass
Block A1- bed	0	0.0	Pass
Block A AH1- 4B7P KLD	0	0.0	Pass
Block B MH1-bed	0	0.0	Pass
BLOCK B MH1- Study	0	0.0	Pass
Block B2-bed	0	0.0	Pass
BLOCK B MH4- bed	17	0.2	Pass
BLOCK B MH3- Study	0	0.0	Pass
Block B MH3-Bed	0	0.0	Pass
BLOCK B MH2- Study	0	0.0	Pass
Block C7- Bed	0	0.0	Pass
Block B2-bed	0	0.0	Pass

Communal corridors

CIBSE TM59 states that whilst there is no mandatory target for communal corridors, if an operative temperature of 28°C is exceeded for more than 3% of annual hours, then this should be identified as a significant risk within the TM59 overheating report.

Room name	No. hours > 28°C	% Annual hours > 28°C	Corridor overheating risk check
CORRIDOR- BLOCK C	0	0.0	No
CORRIDOR-BLOCK B	0	0.0	No
CORRIDOR- BLOCK C	0	0.0	No
CORRIDOR- BLOCK C	0	0.0	No

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Modelled details & overheating mitigation strategy

Approved document O: Providing Information & Appendix B requires information about the model and the overheating mitigation strategy. The following tables detail the modelling method and mitigation strategies applied to each analysed room. Where multiple active openings per space (windows & louvres) exist they are all listed. Occupancy, equipment and lighting profiles for occupied rooms comply with TM59 section 5.

Modelled occupancy

Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block C1- 2B3P KLD	30.36	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C1- bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
CORRIDOR- BLOCK C	18.83	TM59 - Circulation - Corridors			on continuously
Block C2- bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C3- 1B2P KLD	28.7	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH1- Study	7.87	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH2- Study	7.05	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH3- Study	7.3	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH4- Study	8.2	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH5- Study	7.56	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH6- Study	7.33	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C4 - Bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C5-bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C6- 1B2P KLD	28.7	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C4 - 2B3P KLD	30.36	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
CORRIDOR-BLOCK B	19.03	TM59 - Circulation - Corridors			on continuously
Block B2- bed	13.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2- 2B4P KLD	30.48	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B3-Sbed	12.73	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-2B4P KLD	33.24	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1- Bed	14.48	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2- Bed	13.79	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B MH3-bed	14.04	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- bed	14.46	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B3-BED	17.65	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C7- 1B2P KLD	29.54	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C8- Sbed	10.07	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C8- bed	15.62	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C8- bed	12.91	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B4- 2B4P KLD	33.92	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B4- bed	12.13	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B6- 2B4P KLD	33.26	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B7- 2B3P KLD	32.52	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
CORRIDOR- BLOCK C	16.65	TM59 - Circulation - Corridors			on continuously

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A4-3B5P KLD	37.07	TM59 - 3 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A4-bed	11.43	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B3-2B3P KLD	32.69	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C3- bed	17.42	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C1- Sbed	11.8	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C2- 1B2P KLD	31.42	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C4 - Sbed	11.81	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C6- bed	17.35	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C5-1B2P KLD	32.03	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B5- bed	15.27	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- 4B7P KLD	41.7	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH3- 4B7P KLD	41.91	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A2- 1B2P LD	16.49	TM59 - 1 Bedroom - Living- with summer bypass	Living Occupancy	Living Occupancy	18-23h
Block A AH6- 4B7P KLD	40.43	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH4- 4B7P KLD	44.81	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH5- 4B7P KLD	42.48	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A1- bed	13.31	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A2- Kitchen	7.77	TM59 - 1 Bedroom - Kitchen with Summer bypass	Kitchen Occupancy	Kitchen Equipment	18-23h
Block A1- 2B4P KLD	35.47	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH1- bed	15.83	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- bed	15.81	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- bed	14.17	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH2- bed	12.5	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3-Bed	14.4	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3-Bed	13.44	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4- bed	16.85	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4- bed	15.14	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5- bed	15.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5-bed	13.0	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- bed	13.75	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- bed	12.67	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A2-bed	18.71	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A3-Bed	16.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A3-2B4P KLD	32.67	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A3-Bed	17.25	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- BED	17.92	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5- bed	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- BED	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3- BED	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4-BED	20.82	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- BED	20.8	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A4-bed	22.63	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A4-Study	12.57	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B7- bed	17.64	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B7- Sbed	12.66	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B6- bath	2.64	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B6- bed	16.23	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B6- bed	14.03	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- 4B8P KLD	42.89	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH3- 4B8P KLD	39.51	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH2- 4B8P KLD	39.57	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1- 4B8P KLD	41.91	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B2- bed	19.26	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2- Bed	12.97	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH3-bed	13.29	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- Study	19.28	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- bed	15.96	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B MH1-bed	15.25	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2-bed	15.56	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B5- sbed	12.93	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B5- 2B3P KLD	30.91	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C8- 3B5P KLD	39.32	TM59 - 3 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B4-Bed	14.9	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A1- bed	13.23	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- 4B7P KLD	46.76	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1-bed	14.14	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH1- Study	19.63	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-bed	16.46	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
BLOCK B MH4- bed	13.54	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH3- Study	18.45	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH3-Bed	16.0	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH2- Study	18.84	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
CORRIDOR- BLOCK C	10.54	TM59 - Circulation - Corridors			on continuously
Block C7- Bed	15.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-bed	12.21	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Modelled openings

Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C1- 2B3P KLD	13.91	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	4.98	on continuously, off continuously
Block C1- bed	24.25	0.52	2.64, 2.64, 1.98, 1.98	0.0, 0.0, 80.0, 80.0	19.56	DOOR Open 07:00-22:00, off continuously
CORRIDOR- BLOCK C	10.46	0.52	2.16, 1.98	0.0, 0.0	0.0	off continuously
Block C2- bed	20.5	0.25	1.79, 1.79, 1.98	0.0, 0.0, 80.0	9.78	DOOR Open 07:00-22:00, off continuously
Block C3- 1B2P KLD	4.96	0.25	1.79, 1.98, 1.89	0.0, 0.0, 80.0	5.27	on continuously, off continuously
Block A AH1- Study	19.88	0.52	2.37, 1.89	0.0, 80.0	19.21	DOOR Open 07:00-22:00, off continuously
Block A AH2- Study	20.79	0.52	2.37, 1.89	0.0, 80.0	21.45	DOOR Open 07:00-22:00, off continuously
Block A AH3- Study	20.96	0.52	2.37, 1.89	0.0, 80.0	20.71	DOOR Open 07:00-22:00, off continuously
Block A AH4- Study	18.7	0.52	2.37, 1.89	0.0, 80.0	18.44	DOOR Open 07:00-22:00, off continuously
Block A AH5- Study	20.04	0.52	2.37, 1.89	0.0, 80.0	20.0	DOOR Open 07:00-22:00, off continuously
Block A AH6- Study	20.63	0.52	2.37, 1.89	0.0, 80.0	20.63	DOOR Open 07:00-22:00, off continuously
Block C4 - Bed	17.52	0.52	2.64, 2.64, 1.89	0.0, 0.0, 80.0	9.33	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C5-bed	19.1	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	9.33	DOOR Open 07:00-22:00, off continuously
Block C6- 1B2P KLD	12.05	0.25, 0.52	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	5.27	on continuously, off continuously
Block C4 - 2B3P KLD	9.47	0.25	1.89, 1.79, 1.79	80.0, 0.0, 0.0	4.98	on continuously, off continuously
CORRIDOR-BLOCK B	18.25	0.25	1.99, 2.11	0.0, 0.0	0.0	off continuously
Block B2- bed	19.35	0.52	1.89, 1.98	0.0, 80.0	12.18	DOOR Open 07:00-22:00, off continuously
Block B2- 2B4P KLD	24.22	0.25, 0.52	3.93, 1.89, 1.89, 1.89	0.0, 0.0, 0.0, 80.0	4.96	on continuously, off continuously
Block B3-Sbed	39.16	0.25	1.86, 1.89	0.0, 80.0	11.88	DOOR Open 07:00-22:00, off continuously
Block B2-2B4P KLD	15.1	0.25, 0.25, 0.52	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.55	on continuously, off continuously
Block B MH1- Bed	8.92	0.25	1.87, 0.01, 0.01, 1.04, 1.04	80.0, 80.0, 80.0, 0.0, 0.0	10.44	DOOR Open 07:00-22:00, off continuously
Block B MH2- Bed	13.13	0.25	1.89, 1.04, 1.04	80.0, 0.0, 0.0	10.96	DOOR Open 07:00-22:00, off continuously
Block B MH3-bed	13.08	0.25	1.89, 1.04, 1.03	80.0, 0.0, 0.0	10.77	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	13.25	0.25	1.98, 1.03, 1.03	80.0, 0.0, 0.0	10.95	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block B3-BED	7.32	0.25	1.89, 1.86	80.0, 0.0	8.57	DOOR Open 07:00-22:00, off continuously
Block C7- 1B2P KLD	18.75	0.25, 0.25, 0.25, 0.52	1.89, 0.82, 0.82, 2.07, 2.53, 2.53	80.0, 0.0, 0.0, 0.0, 0.0, 0.0	5.12	on continuously, off continuously
Block C8- Sbed	8.81	0.25	1.89, 0.82	80.0, 0.0	15.01	DOOR Open 07:00-22:00, off continuously
Block C8- bed	3.16	0.25	1.89, 0.82	80.0, 0.0	9.68	DOOR Open 07:00-22:00, off continuously
Block C8- bed	23.94	0.25	2.07, 1.89	0.0, 80.0	11.71	DOOR Open 07:00-22:00, off continuously
Block B4- 2B4P KLD	23.89	0.25, 0.25, 0.52	2.73, 1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 0.0, 80.0	4.46	on continuously, off continuously
Block B4- bed	42.81	0.25	1.66, 1.89	0.0, 80.0	12.46	DOOR Open 07:00-22:00, off continuously
Block B6- 2B4P KLD	15.76	0.52, 0.25, 0.25	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.55	on continuously, off continuously
Block B7- 2B3P KLD	14.75	0.25, 0.25	2.07, 1.24, 1.86	0.0, 0.0, 0.0	0.0	off continuously
CORRIDOR- BLOCK C	0.0				0.0	
Block A4-3B5P KLD	15.01	0.25, 0.25, 0.52	1.76, 1.76, 2.07, 2.07, 2.07, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	4.08	on continuously, off continuously
Block A4-bed	17.37	0.25	1.89, 1.76	80.0, 0.0	13.23	DOOR Open 07:00-22:00, off continuously
Block B3-2B3P KLD	15.85	0.25, 0.25	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.63	on continuously, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C3- bed	19.39	0.25	2.64, 2.64, 1.89	0.0, 0.0, 80.0	8.68	DOOR Open 07:00-22:00, off continuously
Block C1- Sbed	17.2	0.25	1.79, 1.89	0.0, 80.0	12.81	DOOR Open 07:00-22:00, off continuously
Block C2- 1B2P KLD	14.71	0.25, 0.25	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	4.81	on continuously, off continuously
Block C4 - Sbed	11.82	0.25	1.79, 1.89	0.0, 80.0	12.8	DOOR Open 07:00-22:00, off continuously
Block C6- bed	15.53	0.25	2.64, 2.64, 1.89	0.0, 0.0, 80.0	8.71	DOOR Open 07:00-22:00, off continuously
Block C5-1B2P KLD	10.74	0.25, 0.25	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	4.72	on continuously, off continuously
Block B5- bed	11.02	0.25	1.86, 1.89	0.0, 80.0	9.9	DOOR Open 07:00-22:00, off continuously
Block A AH2- 4B7P KLD	36.89	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.63	on continuously, off continuously
Block A AH3- 4B7P KLD	41.51	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A2- 1B2P LD	22.19	0.25	1.77, 1.77, 1.89	0.0, 0.0, 80.0	9.17	on continuously, off continuously
Block A AH6- 4B7P KLD	44.64	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A AH4- 4B7P KLD	41.79	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.76	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A AH5- 4B7P KLD	43.13	0.25, 0.52	1.76, 2.64, 2.64, 2.64, 2.64	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A1- bed	7.9	0.25	1.76, 1.89	0.0, 80.0	11.36	DOOR Open 07:00-22:00, off continuously
Block A2- Kitchen	11.07	0.25	2.09, 0.86	0.0, 0.0	0.0	off continuously
Block A1- 2B4P KLD	20.62	0.25	1.76, 1.76, 1.89	0.0, 0.0, 80.0	4.26	on continuously, off continuously
Block A AH1- bed	10.41	0.52	1.57, 1.57, 1.89	0.0, 0.0, 80.0	9.55	DOOR Open 07:00-22:00, off continuously
Block A AH1- bed	9.74	0.25	1.31, 1.31, 1.89	0.0, 0.0, 80.0	9.56	DOOR Open 07:00-22:00, off continuously
Block A AH2- bed	24.48	0.52	1.58, 1.58, 1.89	0.0, 0.0, 80.0	10.67	DOOR Open 07:00-22:00, off continuously
Block A AH2- bed	15.01	0.25	1.31, 1.89	0.0, 80.0	12.1	DOOR Open 07:00-22:00, off continuously
Block A AH3-Bed	24.3	0.52	1.57, 1.58, 1.89	0.0, 0.0, 80.0	10.5	DOOR Open 07:00-22:00, off continuously
Block A AH3-Bed	26.31	0.25	1.31, 1.31, 1.89	0.0, 0.0, 80.0	11.25	DOOR Open 07:00-22:00, off continuously
Block A AH4- bed	22.83	0.52	1.57, 1.58, 1.89	0.0, 0.0, 80.0	8.97	DOOR Open 07:00-22:00, off continuously
Block A AH4- bed	15.9	0.25	1.89, 1.78	80.0, 0.0	9.99	DOOR Open 07:00-22:00, off continuously
Block A AH5- bed	24.14	0.52	1.58, 1.57, 1.89	0.0, 0.0, 80.0	10.07	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A AH5-bed	18.41	0.25	1.79, 1.89	0.0, 80.0	11.63	DOOR Open 07:00-22:00, off continuously
Block A AH6- bed	25.24	0.52	1.58, 1.58, 1.89	0.0, 0.0, 80.0	11.0	DOOR Open 07:00-22:00, off continuously
Block A AH6- bed	19.0	0.25	1.79, 1.89	0.0, 80.0	11.93	DOOR Open 07:00-22:00, off continuously
Block A2-bed	12.69	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	8.08	DOOR Open 07:00-22:00, off continuously
Block A3-Bed	13.86	0.52, 0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	9.44	DOOR Open 07:00-22:00, off continuously
Block A3-2B4P KLD	11.53	0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	4.63	on continuously, off continuously
Block A3-Bed	34.97	0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	8.77	DOOR Open 07:00-22:00, off continuously
Block A AH6- BED	26.4	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.44	DOOR Open 07:00-22:00, off continuously
Block A AH5- bed	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH2- BED	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH3- BED	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH4-BED	22.19	0.52	1.89, 1.3, 1.3, 1.3	80.0, 0.0, 0.0, 0.0	7.26	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A AH1- BED	13.77	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	7.27	DOOR Open 07:00-22:00, off continuously
Block A4-bed	9.04	0.25	1.76, 1.76, 0.05, 1.84	0.0, 0.0, 80.0, 80.0	6.68	DOOR Open 07:00-22:00, off continuously
Block A4-Study	15.68	0.25	1.76, 1.76, 1.89	0.0, 0.0, 80.0	12.03	DOOR Open 07:00-22:00, off continuously
Block B7- bed	7.29	0.25	1.86	0.0	0.0	off continuously
Block B7- Sbed	17.25	0.25	1.86	0.0	0.0	off continuously
Block B6- bath	0.0				0.0	
Block B6- bed	15.67	0.52, 0.52	2.07, 1.86, 1.89	0.0, 0.0, 80.0	9.32	DOOR Open 07:00-22:00, off continuously
Block B6- bed	11.98	0.25	1.66, 1.89	0.0, 80.0	10.78	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- 4B8P KLD	26.87	0.52, 0.25	1.89, 2.42, 2.42, 2.42, 2.42, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.53	on continuously, off continuously
Block B MH3- 4B8P KLD	48.97	0.52, 0.25	1.95, 1.89, 2.64, 2.64, 2.64, 2.64	0.0, 80.0, 0.0, 0.0, 0.0, 0.0	3.83	on continuously, off continuously
Block B MH2- 4B8P KLD	44.92	0.25, 0.52	2.42, 2.42, 2.42, 2.42, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.82	on continuously, off continuously
Block B MH1- 4B8P KLD	41.95	0.25, 0.52	2.42, 2.42, 2.42, 2.42, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.61	on continuously, off continuously
Block B2- bed	0.0		1.98	80.0	8.22	DOOR Open 07:00-22:00
Block B MH2- Bed	22.49	0.52	1.43, 1.43, 1.89	0.0, 0.0, 80.0	11.66	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block B MH3-bed	22.3	0.52	2.82, 1.89	0.0, 80.0	11.38	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- Study	7.51	0.52	2.07, 1.89	0.0, 80.0	7.84	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	11.35	0.25	1.68, 1.89	0.0, 80.0	9.47	DOOR Open 07:00-22:00, off continuously
Block B MH1-bed	8.59	0.25	1.68, 1.89	0.0, 80.0	9.91	DOOR Open 07:00-22:00, off continuously
Block B MH2-bed	13.68	0.25	2.07, 1.89	0.0, 80.0	9.72	DOOR Open 07:00-22:00, off continuously
Block B5- sbed	14.32	0.25	1.89, 2.73	80.0, 0.0	11.69	DOOR Open 07:00-22:00, off continuously
Block B5- 2B3P KLD	19.59	0.25, 0.25, 0.25	2.1, 0.63, 1.89, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 80.0	4.89	on continuously, off continuously
Block C8- 3B5P KLD	15.61	0.25, 0.52, 0.25, 0.25	1.89, 2.53, 2.53, 1.89, 0.82, 0.82	80.0, 0.0, 0.0, 0.0, 0.0, 0.0	3.85	on continuously, off continuously
Block B4-Bed	28.62	0.52, 0.52	1.89, 1.86, 1.86	80.0, 0.0, 0.0	10.15	DOOR Open 07:00-22:00, off continuously
Block A1- bed	8.01	0.52, 0.25	1.05, 1.89, 0.89	0.0, 80.0, 0.0	11.43	DOOR Open 07:00-22:00, off continuously
Block A AH1- 4B7P KLD	9.25	0.25, 0.52	1.89, 1.78, 2.64	80.0, 0.0, 0.0	3.23	on continuously, off continuously
Block B MH1-bed	22.04	0.52	2.52, 1.89	0.0, 80.0	10.69	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
BLOCK B MH1- Study	13.18	0.52	2.52, 1.89	0.0, 80.0	7.7	DOOR Open 07:00-22:00, off continuously
Block B2-bed	16.3	0.52, 0.52	1.89, 1.89, 1.68	80.0, 0.0, 0.0	9.19	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	18.88	0.52	2.02, 1.98	0.0, 80.0	11.7	DOOR Open 07:00-22:00, off continuously
BLOCK B MH3- Study	10.85	0.52	2.52, 1.89	0.0, 80.0	8.2	DOOR Open 07:00-22:00, off continuously
Block B MH3-Bed	10.78	0.25	1.68, 1.89	0.0, 80.0	9.45	DOOR Open 07:00-22:00, off continuously
BLOCK B MH2- Study	10.95	0.52	2.52, 1.88	0.0, 80.0	7.98	DOOR Open 07:00-22:00, off continuously
CORRIDOR- BLOCK C	0.0				0.0	
Block C7- Bed	3.01	0.25	1.89, 0.82	80.0, 0.0	10.07	DOOR Open 07:00-22:00, off continuously
Block B2-bed	73.94	0.25	1.89, 1.88	80.0, 0.0	12.38	DOOR Open 07:00-22:00, off continuously

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Modelled ventilation

Room name	Infiltration rate ACH	Mech vent flow rate ACH
Block C1- 2B3P KLD	0.15	0.81
Block C1- bed	0.15	0.68
CORRIDOR- BLOCK C	0.15	0
Block C2- bed	0.15	0.68
Block C3- 1B2P KLD	0.15	0.5
Block A AH1- Study	0.15	1.39
Block A AH2- Study	0.15	1.55
Block A AH3- Study	0.15	1.49
Block A AH4- Study	0.15	1.33
Block A AH5- Study	0.15	1.44
Block A AH6- Study	0.15	1.59
Block C4 - Bed	0.15	0.54
Block C5-bed	0.15	0.54
Block C6- 1B2P KLD	0.15	0.4
Block C4 - 2B3P KLD	0.15	0.73
CORRIDOR-BLOCK B	0.15	0
Block B2- bed	0.15	4.94
Block B2- 2B4P KLD	0.15	0.84
Block B3-Sbed	0.15	1.01
Block B2-2B4P KLD	0.15	0.77
Block B MH1- Bed	0.15	0.89
Block B MH2- Bed	0.15	0.93
Block B MH3-bed	0.15	0.92
BLOCK B MH4- bed	0.15	0.89
Block B3-BED	0.15	3.64
Block C7- 1B2P KLD	0.15	0.57
Block C8- Sbed	0.15	6.39
Block C8- bed	0.15	4.12
Block C8- bed	0.15	1.0
Block B4- 2B4P KLD	0.15	0.76
Block B4- bed	0.15	1.06
Block B6- 2B4P KLD	0.15	0.77
Block B7- 2B3P KLD	0.15	0.79
CORRIDOR- BLOCK C	0.15	0
Block A4-3B5P KLD	0.15	0.59
Block A4-bed	0.15	4.77
Block B3-2B3P KLD	0.15	0.79
Block C3- bed	0.15	0.63
Block C1- Sbed	0.15	1.02
Block C2- 1B2P KLD	0.15	0.46

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Room name	Infiltration rate ACH	Mech vent flow rate ACH
Block C4 - Sbed	0.15	0.93
Block C6- bed	0.15	0.51
Block C5-1B2P KLD	0.15	0.36
Block B5- bed	0.15	0.84
Block A AH2- 4B7P KLD	0.15	0.52
Block A AH3- 4B7P KLD	0.15	0.52
Block A2- 1B2P LD	0.15	0.99
Block A AH6- 4B7P KLD	0.15	0.54
Block A AH4- 4B7P KLD	0.15	0.49
Block A AH5- 4B7P KLD	0.15	0.51
Block A1- bed	0.15	0.82
Block A2- Kitchen	0.15	1.4
Block A1- 2B4P KLD	0.15	0.62
Block A AH1- bed	0.15	0.69
Block A AH1- bed	0.15	0.69
Block A AH2- bed	0.15	0.77
Block A AH2- bed	0.15	0.87
Block A AH3-Bed	0.15	0.76
Block A AH3-Bed	0.15	0.81
Block A AH4- bed	0.15	0.65
Block A AH4- bed	0.15	0.72
Block A AH5- bed	0.15	0.73
Block A AH5-bed	0.15	0.84
Block A AH6- bed	0.15	0.79
Block A AH6- bed	0.15	0.86
Block A2-bed	0.15	0.58
Block A3-Bed	0.15	0.68
Block A3-2B4P KLD	0.15	0.67
Block A3-Bed	0.15	0.63
Block A AH6- BED	0.15	4.19
Block A AH5- bed	0.15	3.97
Block A AH2- BED	0.15	3.97
Block A AH3- BED	0.15	3.97
Block A AH4-BED	0.15	3.6
Block A AH1- BED	0.15	3.61
Block A4-bed	0.15	0.48
Block A4-Study	0.15	0.87
Block B7- bed	0.15	0.73
Block B7- Sbed	0.15	1.02
Block B6- bath	0.15	4.87
Block B6- bed	0.15	0.79
Block B6- bed	0.15	0.92

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Room name	Infiltration rate ACH	Mech vent flow rate ACH
BLOCK B MH4- 4B8P KLD	0.15	0.6
Block B MH3- 4B8P KLD	0.15	0.65
Block B MH2- 4B8P KLD	0.15	0.65
Block B MH1- 4B8P KLD	0.15	0.61
Block B2- bed	0.15	0.67
Block B MH2- Bed	0.15	0.99
Block B MH3-bed	0.15	0.97
BLOCK B MH4- Study	0.15	0.67
BLOCK B MH4- bed	0.15	0.81
Block B MH1-bed	0.15	0.84
Block B MH2-bed	0.15	0.84
Block B5- sbed	0.15	4.97
Block B5- 2B3P KLD	0.15	0.83
Block C8- 3B5P KLD	0.15	0.65
Block B4-Bed	0.15	0.86
Block A1- bed	0.15	4.12
Block A AH1- 4B7P KLD	0.15	0.47
Block B MH1-bed	0.15	0.91
BLOCK B MH1- Study	0.15	0.66
Block B2-bed	0.15	0.78
BLOCK B MH4- bed	0.15	0.95
BLOCK B MH3- Study	0.15	0.7
Block B MH3-Bed	0.15	0.8
BLOCK B MH2- Study	0.15	0.68
CORRIDOR- BLOCK C	0.15	0
Block C7- Bed	0.15	4.28
Block B2-bed	0.15	1.05

APPENDIX F

Detailed Simulation Results by Weather Scenario

Approved Document O report
Overheating risk in residential buildings
for
Hornsey Police Station

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Building details

Project name: Hornsey Police Station	Date: 30-05-2025 15:20:57
Location: London City Ap, United Kingdom	
Address: London	
Building use: Residential	
Are there any security, noise, or pollution issues: Yes	

Designer's details

Designer's name:
Designer's organisation:
Designer's address:

Dynamic thermal model

Software: IESVE version 2024.1.0.0	
Weather file: London_LWC_DSY1_2080High50.epw	
Results file: DSY1_2080H50.aps	
Number of rooms analysed: 109	
TM59: summer elevated air speed: 0.1	
TM59: occupant category: Category II (normal)	
Overheating mitigation strategy: External Blinds, MVHR with Extract Fan	
Has the building construction proposal been modelled accurately?	YES
Have the analysed rooms passed the assessment for Approved Doc O Dynamic Thermal Modelling Method (CIBSE TM 59)?	YES
Designer's signature:	

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Summary

CIBSE TM59 overheating methodology for predominantly naturally ventilated rooms assesses against two criteria, (a) and (b) (for Category I occupancy, T_{max} is reduced by 1K):

- Criterion (a) states that for living rooms, kitchens and bedrooms, the number of hours during which ΔT is greater than or equal to 1K from May to September (or November to March for southern hemisphere locations) shall not exceed 3% of occupied hours
- Criterion (b) states that the operative temperature of the bedrooms from 22:00-07:00 shall not exceed 26°C for more than 1% of annual hours (33 hours is therefore recorded as a fail). Approved document O applies limits to CIBSE TM59 section 3.3 (openings); these requirements are applied by appropriate assignment of MacroFlo types / scripted profiles in the model (see Modelled Openings Section).

CIBSE TM59 overheating methodology for predominantly mechanically ventilated rooms states the operative temperature of all rooms shall not exceed 26°C for more than 3% of annual occupied hours.

CIBSE TM59 also states that the inclusion of corridors in the overheating analysis is mandatory where community heating pipework runs through them. While there is no mandatory target for communal corridors, if an operative temperature of 28°C is exceeded for more than 3% of the total annual hours this should be identified as a significant risk.

Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block C1- 2B3P KLD	-	-	Pass	-
Block C1- bed	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block C2- bed	-	-	Pass	-
Block C3- 1B2P KLD	-	-	Pass	-
Block A AH1- Study	-	-	Pass	-
Block A AH2- Study	-	-	Pass	-
Block A AH3- Study	-	-	Pass	-
Block A AH4- Study	-	-	Pass	-
Block A AH5- Study	-	-	Pass	-
Block A AH6- Study	-	-	Pass	-
Block C4 - Bed	-	-	Pass	-
Block C5-bed	-	-	Pass	-
Block C6- 1B2P KLD	-	-	Pass	-
Block C4 - 2B3P KLD	-	-	Pass	-
CORRIDOR-BLOCK B	-	-	-	No
Block B2- bed	-	-	Pass	-
Block B2- 2B4P KLD	-	-	Pass	-
Block B3-Sbed	-	-	Pass	-
Block B2-2B4P KLD	-	-	Pass	-
Block B MH1- Bed	-	-	Pass	-
Block B MH2- Bed	-	-	Pass	-
Block B MH3-bed	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
Block B3-BED	-	-	Pass	-
Block C7- 1B2P KLD	-	-	Pass	-
Block C8- Sbed	-	-	Pass	-
Block C8- bed	-	-	Pass	-
Block C8- bed	-	-	Pass	-

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Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block B4- 2B4P KLD	-	-	Pass	-
Block B4- bed	-	-	Pass	-
Block B6- 2B4P KLD	-	-	Pass	-
Block B7- 2B3P KLD	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block A4-3B5P KLD	-	-	Pass	-
Block A4-bed	-	-	Pass	-
Block B3-2B3P KLD	-	-	Pass	-
Block C3- bed	-	-	Pass	-
Block C1- Sbed	-	-	Pass	-
Block C2- 1B2P KLD	-	-	Pass	-
Block C4 - Sbed	-	-	Pass	-
Block C6- bed	-	-	Pass	-
Block C5-1B2P KLD	-	-	Pass	-
Block B5- bed	-	-	Pass	-
Block A AH2- 4B7P KLD	-	-	Pass	-
Block A AH3- 4B7P KLD	-	-	Pass	-
Block A2- 1B2P LD	-	-	Pass	-
Block A AH6- 4B7P KLD	-	-	Pass	-
Block A AH4- 4B7P KLD	-	-	Pass	-
Block A AH5- 4B7P KLD	-	-	Pass	-
Block A1- bed	-	-	Pass	-
Block A2- Kitchen	-	-	Pass	-
Block A1- 2B4P KLD	-	-	Pass	-
Block A AH1- bed	-	-	Pass	-
Block A AH1- bed	-	-	Pass	-
Block A AH2- bed	-	-	Pass	-
Block A AH2- bed	-	-	Pass	-
Block A AH3-Bed	-	-	Pass	-
Block A AH3-Bed	-	-	Pass	-
Block A AH4- bed	-	-	Pass	-
Block A AH4- bed	-	-	Pass	-
Block A AH5- bed	-	-	Pass	-
Block A AH5-bed	-	-	Pass	-
Block A AH6- bed	-	-	Pass	-
Block A AH6- bed	-	-	Pass	-
Block A2-bed	-	-	Pass	-
Block A3-Bed	-	-	Pass	-
Block A3-2B4P KLD	-	-	Pass	-
Block A3-Bed	-	-	Pass	-
Block A AH6- BED	-	-	Pass	-
Block A AH5- bed	-	-	Pass	-

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Room name	Naturally ventilated Criterion a check	Naturally ventilated Criterion b check	Mechanically ventilated check	Corridor overheating risk check
Block A AH2- BED	-	-	Pass	-
Block A AH3- BED	-	-	Pass	-
Block A AH4-BED	-	-	Pass	-
Block A AH1- BED	-	-	Pass	-
Block A4-bed	-	-	Pass	-
Block A4-Study	-	-	Pass	-
Block B7- bed	-	-	Pass	-
Block B7- Sbed	-	-	Pass	-
Block B6- bath	-	-	Pass	-
Block B6- bed	-	-	Pass	-
Block B6- bed	-	-	Pass	-
BLOCK B MH4- 4B8P KLD	-	-	Pass	-
Block B MH3- 4B8P KLD	-	-	Pass	-
Block B MH2- 4B8P KLD	-	-	Pass	-
Block B MH1- 4B8P KLD	-	-	Pass	-
Block B2- bed	-	-	Pass	-
Block B MH2- Bed	-	-	Pass	-
Block B MH3-bed	-	-	Pass	-
BLOCK B MH4- Study	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
Block B MH1-bed	-	-	Pass	-
Block B MH2-bed	-	-	Pass	-
Block B5- sbed	-	-	Pass	-
Block B5- 2B3P KLD	-	-	Pass	-
Block C8- 3B5P KLD	-	-	Pass	-
Block B4-Bed	-	-	Pass	-
Block A1- bed	-	-	Pass	-
Block A AH1- 4B7P KLD	-	-	Pass	-
Block B MH1-bed	-	-	Pass	-
BLOCK B MH1- Study	-	-	Pass	-
Block B2-bed	-	-	Pass	-
BLOCK B MH4- bed	-	-	Pass	-
BLOCK B MH3- Study	-	-	Pass	-
Block B MH3-Bed	-	-	Pass	-
BLOCK B MH2- Study	-	-	Pass	-
CORRIDOR- BLOCK C	-	-	-	No
Block C7- Bed	-	-	Pass	-
Block B2-bed	-	-	Pass	-

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Naturally ventilated rooms – criterion (a)

Criterion (a) states that for living rooms, kitchens and bedrooms, the number of hours during which ΔT is greater than or equal to 1K from May to September (or November to March for southern hemisphere locations) shall not exceed 3% of occupied hours.

Room name	Occupied hours	No. hours $\Delta T \geq 1^\circ\text{K}$	% Occupied hours $\Delta T \geq 1^\circ\text{K}$	Criterion a check
No nat vent rooms	N/A	N/A	N/A	N/A

Naturally ventilated rooms – criterion (b)

Criterion (b) states that the operative temperature of the bedrooms from 22:00-07:00 shall not exceed 26°C for more than 1% of annual hours (33 hours is therefore recorded as a fail). Any rooms that are not bedrooms are therefore not assessed, hence the corresponding N/A values.

Room name	No. hours > 26°C 22:00-24:00	No. hours > 26°C 00:00-07:00	Total hours > 26°C	Criterion b check
No nat vent rooms	N/A	N/A	N/A	N/A

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Mechanically ventilated rooms

CIBSE TM59 overheating methodology for predominantly mech. vent. rooms states the operative temperature of all rooms shall not exceed 26°C for more than 3% of annual occupied hours.

Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
Block C1- 2B3P KLD	0	0.0	Pass
Block C1- bed	0	0.0	Pass
Block C2- bed	0	0.0	Pass
Block C3- 1B2P KLD	0	0.0	Pass
Block A AH1- Study	0	0.0	Pass
Block A AH2- Study	0	0.0	Pass
Block A AH3- Study	0	0.0	Pass
Block A AH4- Study	0	0.0	Pass
Block A AH5- Study	0	0.0	Pass
Block A AH6- Study	0	0.0	Pass
Block C4 - Bed	0	0.0	Pass
Block C5-bed	0	0.0	Pass
Block C6- 1B2P KLD	0	0.0	Pass
Block C4 - 2B3P KLD	0	0.0	Pass
Block B2- bed	0	0.0	Pass
Block B2- 2B4P KLD	0	0.0	Pass
Block B3-Sbed	0	0.0	Pass
Block B2-2B4P KLD	0	0.0	Pass
Block B MH1- Bed	0	0.0	Pass
Block B MH2- Bed	0	0.0	Pass
Block B MH3-bed	0	0.0	Pass
BLOCK B MH4- bed	117	1.3	Pass
Block B3-BED	0	0.0	Pass
Block C7- 1B2P KLD	0	0.0	Pass
Block C8- Sbed	0	0.0	Pass
Block C8- bed	0	0.0	Pass
Block C8- bed	0	0.0	Pass
Block B4- 2B4P KLD	0	0.0	Pass
Block B4- bed	0	0.0	Pass
Block B6- 2B4P KLD	0	0.0	Pass
Block B7- 2B3P KLD	0	0.0	Pass
Block A4-3B5P KLD	0	0.0	Pass
Block A4-bed	0	0.0	Pass
Block B3-2B3P KLD	0	0.0	Pass
Block C3- bed	0	0.0	Pass
Block C1- Sbed	0	0.0	Pass
Block C2- 1B2P KLD	0	0.0	Pass

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Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
Block C4 - Sbed	0	0.0	Pass
Block C6- bed	0	0.0	Pass
Block C5-1B2P KLD	0	0.0	Pass
Block B5- bed	0	0.0	Pass
Block A AH2- 4B7P KLD	92	1.9	Pass
Block A AH3- 4B7P KLD	99	2.1	Pass
Block A2- 1B2P LD	0	0.0	Pass
Block A AH6- 4B7P KLD	1	0.0	Pass
Block A AH4- 4B7P KLD	75	1.6	Pass
Block A AH5- 4B7P KLD	29	0.6	Pass
Block A1- bed	0	0.0	Pass
Block A2- Kitchen	0	0.0	Pass
Block A1- 2B4P KLD	0	0.0	Pass
Block A AH1- bed	0	0.0	Pass
Block A AH1- bed	0	0.0	Pass
Block A AH2- bed	0	0.0	Pass
Block A AH2- bed	0	0.0	Pass
Block A AH3-Bed	0	0.0	Pass
Block A AH3-Bed	0	0.0	Pass
Block A AH4- bed	0	0.0	Pass
Block A AH4- bed	0	0.0	Pass
Block A AH5- bed	0	0.0	Pass
Block A AH5-bed	0	0.0	Pass
Block A AH6- bed	0	0.0	Pass
Block A AH6- bed	0	0.0	Pass
Block A2-bed	0	0.0	Pass
Block A3-Bed	0	0.0	Pass
Block A3-2B4P KLD	0	0.0	Pass
Block A3-Bed	0	0.0	Pass
Block A AH6- BED	0	0.0	Pass
Block A AH5- bed	0	0.0	Pass
Block A AH2- BED	0	0.0	Pass
Block A AH3- BED	0	0.0	Pass
Block A AH4-BED	0	0.0	Pass
Block A AH1- BED	0	0.0	Pass
Block A4-bed	0	0.0	Pass
Block A4-Study	0	0.0	Pass
Block B7- bed	0	0.0	Pass
Block B7- Sbed	0	0.0	Pass
Block B6- bath	0	0.0	Pass
Block B6- bed	0	0.0	Pass
Block B6- bed	0	0.0	Pass

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Room name	No. hours > 26°C	% Annual hours > 26°C	Mechanically ventilated check
BLOCK B MH4- 4B8P KLD	0	0.0	Pass
Block B MH3- 4B8P KLD	0	0.0	Pass
Block B MH2- 4B8P KLD	0	0.0	Pass
Block B MH1- 4B8P KLD	55	1.2	Pass
Block B2- bed	0	0.0	Pass
Block B MH2- Bed	0	0.0	Pass
Block B MH3-bed	0	0.0	Pass
BLOCK B MH4- Study	0	0.0	Pass
BLOCK B MH4- bed	0	0.0	Pass
Block B MH1-bed	0	0.0	Pass
Block B MH2-bed	0	0.0	Pass
Block B5- sbed	0	0.0	Pass
Block B5- 2B3P KLD	0	0.0	Pass
Block C8- 3B5P KLD	0	0.0	Pass
Block B4-Bed	0	0.0	Pass
Block A1- bed	0	0.0	Pass
Block A AH1- 4B7P KLD	0	0.0	Pass
Block B MH1-bed	0	0.0	Pass
BLOCK B MH1- Study	0	0.0	Pass
Block B2-bed	0	0.0	Pass
BLOCK B MH4- bed	139	1.6	Pass
BLOCK B MH3- Study	0	0.0	Pass
Block B MH3-Bed	0	0.0	Pass
BLOCK B MH2- Study	0	0.0	Pass
Block C7- Bed	0	0.0	Pass
Block B2-bed	0	0.0	Pass

Communal corridors

CIBSE TM59 states that whilst there is no mandatory target for communal corridors, if an operative temperature of 28°C is exceeded for more than 3% of annual hours, then this should be identified as a significant risk within the TM59 overheating report.

Room name	No. hours > 28°C	% Annual hours > 28°C	Corridor overheating risk check
CORRIDOR- BLOCK C	0	0.0	No
CORRIDOR-BLOCK B	0	0.0	No
CORRIDOR- BLOCK C	0	0.0	No
CORRIDOR- BLOCK C	0	0.0	No

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Modelled details & overheating mitigation strategy

Approved document O: Providing Information & Appendix B requires information about the model and the overheating mitigation strategy. The following tables detail the modelling method and mitigation strategies applied to each analysed room. Where multiple active openings per space (windows & louvres) exist they are all listed. Occupancy, equipment and lighting profiles for occupied rooms comply with TM59 section 5.

Modelled occupancy

Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block C1- 2B3P KLD	30.36	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C1- bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
CORRIDOR- BLOCK C	18.83	TM59 - Circulation - Corridors			on continuously
Block C2- bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C3- 1B2P KLD	28.7	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH1- Study	7.87	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH2- Study	7.05	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH3- Study	7.3	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH4- Study	8.2	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block A AH5- Study	7.56	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH6- Study	7.33	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C4 - Bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C5-bed	16.2	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C6- 1B2P KLD	28.7	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C4 - 2B3P KLD	30.36	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
CORRIDOR-BLOCK B	19.03	TM59 - Circulation - Corridors			on continuously
Block B2- bed	13.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2- 2B4P KLD	30.48	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B3-Sbed	12.73	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-2B4P KLD	33.24	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1- Bed	14.48	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2- Bed	13.79	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B MH3-bed	14.04	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- bed	14.46	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B3-BED	17.65	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C7- 1B2P KLD	29.54	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C8- Sbed	10.07	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C8- bed	15.62	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C8- bed	12.91	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B4- 2B4P KLD	33.92	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B4- bed	12.13	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B6- 2B4P KLD	33.26	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B7- 2B3P KLD	32.52	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
CORRIDOR- BLOCK C	16.65	TM59 - Circulation - Corridors			on continuously

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A4-3B5P KLD	37.07	TM59 - 3 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A4-bed	11.43	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B3-2B3P KLD	32.69	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C3- bed	17.42	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C1- Sbed	11.8	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C2- 1B2P KLD	31.42	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C4 - Sbed	11.81	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block C6- bed	17.35	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block C5-1B2P KLD	32.03	TM59 - 1 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B5- bed	15.27	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- 4B7P KLD	41.7	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH3- 4B7P KLD	41.91	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A2- 1B2P LD	16.49	TM59 - 1 Bedroom - Living- with summer bypass	Living Occupancy	Living Occupancy	18-23h
Block A AH6- 4B7P KLD	40.43	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH4- 4B7P KLD	44.81	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH5- 4B7P KLD	42.48	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A1- bed	13.31	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A2- Kitchen	7.77	TM59 - 1 Bedroom - Kitchen with Summer bypass	Kitchen Occupancy	Kitchen Equipment	18-23h
Block A1- 2B4P KLD	35.47	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block A AH1- bed	15.83	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- bed	15.81	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- bed	14.17	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A AH2- bed	12.5	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3-Bed	14.4	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3-Bed	13.44	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4- bed	16.85	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4- bed	15.14	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5- bed	15.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5-bed	13.0	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- bed	13.75	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- bed	12.67	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A2-bed	18.71	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A3-Bed	16.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A3-2B4P KLD	32.67	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block A3-Bed	17.25	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH6- BED	17.92	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH5- bed	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH2- BED	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH3- BED	18.89	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH4-BED	20.82	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- BED	20.8	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A4-bed	22.63	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A4-Study	12.57	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B7- bed	17.64	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B7- Sbed	12.66	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B6- bath	2.64	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B6- bed	16.23	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B6- bed	14.03	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- 4B8P KLD	42.89	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH3- 4B8P KLD	39.51	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH2- 4B8P KLD	39.57	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1- 4B8P KLD	41.91	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B2- bed	19.26	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2- Bed	12.97	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH3-bed	13.29	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- Study	19.28	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH4- bed	15.96	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
Block B MH1-bed	15.25	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH2-bed	15.56	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B5- sbed	12.93	TM59 - Single Bedroom - with MVHR summer bypass	Single Bedroom Occupancy	Single Bedroom Equipment	18-23h
Block B5- 2B3P KLD	30.91	TM59 - 2 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block C8- 3B5P KLD	39.32	TM59 - 3 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B4-Bed	14.9	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A1- bed	13.23	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block A AH1- 4B7P KLD	46.76	TM59 - 4 Bedroom - Living / Kitchen - with MVHR summer bypass	Living / Kitchen Occupancy	Living / Kitchen Equipment	18-23h
Block B MH1-bed	14.14	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH1- Study	19.63	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-bed	16.46	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Room name	Floor area m ²	Thermal template	Occupancy profile	Equipment profile	Lighting profile
BLOCK B MH4- bed	13.54	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH3- Study	18.45	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B MH3-Bed	16.0	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
BLOCK B MH2- Study	18.84	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
CORRIDOR- BLOCK C	10.54	TM59 - Circulation - Corridors			on continuously
Block C7- Bed	15.01	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h
Block B2-bed	12.21	TM59 - Double Bedroom - with MVHR Summer bypass	Double Bedroom Occupancy	Double Bedroom Equipment	18-23h

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Modelled openings

Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C1- 2B3P KLD	13.91	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	4.98	on continuously, off continuously
Block C1- bed	24.25	0.52	2.64, 2.64, 1.98, 1.98	0.0, 0.0, 80.0, 80.0	19.56	DOOR Open 07:00-22:00, off continuously
CORRIDOR- BLOCK C	10.46	0.52	2.16, 1.98	0.0, 0.0	0.0	off continuously
Block C2- bed	20.5	0.25	1.79, 1.79, 1.98	0.0, 0.0, 80.0	9.78	DOOR Open 07:00-22:00, off continuously
Block C3- 1B2P KLD	4.96	0.25	1.79, 1.98, 1.89	0.0, 0.0, 80.0	5.27	on continuously, off continuously
Block A AH1- Study	19.88	0.52	2.37, 1.89	0.0, 80.0	19.21	DOOR Open 07:00-22:00, off continuously
Block A AH2- Study	20.79	0.52	2.37, 1.89	0.0, 80.0	21.45	DOOR Open 07:00-22:00, off continuously
Block A AH3- Study	20.96	0.52	2.37, 1.89	0.0, 80.0	20.71	DOOR Open 07:00-22:00, off continuously
Block A AH4- Study	18.7	0.52	2.37, 1.89	0.0, 80.0	18.44	DOOR Open 07:00-22:00, off continuously
Block A AH5- Study	20.04	0.52	2.37, 1.89	0.0, 80.0	20.0	DOOR Open 07:00-22:00, off continuously
Block A AH6- Study	20.63	0.52	2.37, 1.89	0.0, 80.0	20.63	DOOR Open 07:00-22:00, off continuously
Block C4 - Bed	17.52	0.52	2.64, 2.64, 1.89	0.0, 0.0, 80.0	9.33	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C5-bed	19.1	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	9.33	DOOR Open 07:00-22:00, off continuously
Block C6- 1B2P KLD	12.05	0.25, 0.52	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	5.27	on continuously, off continuously
Block C4 - 2B3P KLD	9.47	0.25	1.89, 1.79, 1.79	80.0, 0.0, 0.0	4.98	on continuously, off continuously
CORRIDOR-BLOCK B	18.25	0.25	1.99, 2.11	0.0, 0.0	0.0	off continuously
Block B2- bed	19.35	0.52	1.89, 1.98	0.0, 80.0	12.18	DOOR Open 07:00-22:00, off continuously
Block B2- 2B4P KLD	24.22	0.25, 0.52	3.93, 1.89, 1.89, 1.89	0.0, 0.0, 0.0, 80.0	4.96	on continuously, off continuously
Block B3-Sbed	39.16	0.25	1.86, 1.89	0.0, 80.0	11.88	DOOR Open 07:00-22:00, off continuously
Block B2-2B4P KLD	15.1	0.25, 0.25, 0.52	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.55	on continuously, off continuously
Block B MH1- Bed	8.92	0.25	1.87, 0.01, 0.01, 1.04, 1.04	80.0, 80.0, 80.0, 0.0, 0.0	10.44	DOOR Open 07:00-22:00, off continuously
Block B MH2- Bed	13.13	0.25	1.89, 1.04, 1.04	80.0, 0.0, 0.0	10.96	DOOR Open 07:00-22:00, off continuously
Block B MH3-bed	13.08	0.25	1.89, 1.04, 1.03	80.0, 0.0, 0.0	10.77	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	13.25	0.25	1.98, 1.03, 1.03	80.0, 0.0, 0.0	10.95	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block B3-BED	7.32	0.25	1.89, 1.86	80.0, 0.0	8.57	DOOR Open 07:00-22:00, off continuously
Block C7- 1B2P KLD	18.75	0.25, 0.25, 0.25, 0.52	1.89, 0.82, 0.82, 2.07, 2.53, 2.53	80.0, 0.0, 0.0, 0.0, 0.0, 0.0	5.12	on continuously, off continuously
Block C8- Sbed	8.81	0.25	1.89, 0.82	80.0, 0.0	15.01	DOOR Open 07:00-22:00, off continuously
Block C8- bed	3.16	0.25	1.89, 0.82	80.0, 0.0	9.68	DOOR Open 07:00-22:00, off continuously
Block C8- bed	23.94	0.25	2.07, 1.89	0.0, 80.0	11.71	DOOR Open 07:00-22:00, off continuously
Block B4- 2B4P KLD	23.89	0.25, 0.25, 0.52	2.73, 1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 0.0, 80.0	4.46	on continuously, off continuously
Block B4- bed	42.81	0.25	1.66, 1.89	0.0, 80.0	12.46	DOOR Open 07:00-22:00, off continuously
Block B6- 2B4P KLD	15.76	0.52, 0.25, 0.25	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.55	on continuously, off continuously
Block B7- 2B3P KLD	14.75	0.25, 0.25	2.07, 1.24, 1.86	0.0, 0.0, 0.0	0.0	off continuously
CORRIDOR- BLOCK C	0.0				0.0	
Block A4-3B5P KLD	15.01	0.25, 0.25, 0.52	1.76, 1.76, 2.07, 2.07, 2.07, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	4.08	on continuously, off continuously
Block A4-bed	17.37	0.25	1.89, 1.76	80.0, 0.0	13.23	DOOR Open 07:00-22:00, off continuously
Block B3-2B3P KLD	15.85	0.25, 0.25	1.86, 1.86, 1.86, 1.89	0.0, 0.0, 0.0, 80.0	4.63	on continuously, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block C3- bed	19.39	0.25	2.64, 2.64, 1.89	0.0, 0.0, 80.0	8.68	DOOR Open 07:00-22:00, off continuously
Block C1- Sbed	17.2	0.25	1.79, 1.89	0.0, 80.0	12.81	DOOR Open 07:00-22:00, off continuously
Block C2- 1B2P KLD	14.71	0.25, 0.25	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	4.81	on continuously, off continuously
Block C4 - Sbed	11.82	0.25	1.79, 1.89	0.0, 80.0	12.8	DOOR Open 07:00-22:00, off continuously
Block C6- bed	15.53	0.25	2.64, 2.64, 1.89	0.0, 0.0, 80.0	8.71	DOOR Open 07:00-22:00, off continuously
Block C5-1B2P KLD	10.74	0.25, 0.25	1.79, 1.79, 1.79, 1.89	0.0, 0.0, 0.0, 80.0	4.72	on continuously, off continuously
Block B5- bed	11.02	0.25	1.86, 1.89	0.0, 80.0	9.9	DOOR Open 07:00-22:00, off continuously
Block A AH2- 4B7P KLD	36.89	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.63	on continuously, off continuously
Block A AH3- 4B7P KLD	41.51	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A2- 1B2P LD	22.19	0.25	1.77, 1.77, 1.89	0.0, 0.0, 80.0	9.17	on continuously, off continuously
Block A AH6- 4B7P KLD	44.64	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.77	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A AH4- 4B7P KLD	41.79	0.52, 0.25	2.64, 2.64, 2.64, 2.64, 1.76	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously
Block A AH5- 4B7P KLD	43.13	0.25, 0.52	1.76, 2.64, 2.64, 2.64, 2.64	0.0, 0.0, 0.0, 0.0, 0.0	0.0	off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A1- bed	7.9	0.25	1.76, 1.89	0.0, 80.0	11.36	DOOR Open 07:00-22:00, off continuously
Block A2- Kitchen	11.07	0.25	2.09, 0.86	0.0, 0.0	0.0	off continuously
Block A1- 2B4P KLD	20.62	0.25	1.76, 1.76, 1.89	0.0, 0.0, 80.0	4.26	on continuously, off continuously
Block A AH1- bed	10.41	0.52	1.57, 1.57, 1.89	0.0, 0.0, 80.0	9.55	DOOR Open 07:00-22:00, off continuously
Block A AH1- bed	9.74	0.25	1.31, 1.31, 1.89	0.0, 0.0, 80.0	9.56	DOOR Open 07:00-22:00, off continuously
Block A AH2- bed	24.48	0.52	1.58, 1.58, 1.89	0.0, 0.0, 80.0	10.67	DOOR Open 07:00-22:00, off continuously
Block A AH2- bed	15.01	0.25	1.31, 1.89	0.0, 80.0	12.1	DOOR Open 07:00-22:00, off continuously
Block A AH3-Bed	24.3	0.52	1.57, 1.58, 1.89	0.0, 0.0, 80.0	10.5	DOOR Open 07:00-22:00, off continuously
Block A AH3-Bed	26.31	0.25	1.31, 1.31, 1.89	0.0, 0.0, 80.0	11.25	DOOR Open 07:00-22:00, off continuously
Block A AH4- bed	22.83	0.52	1.57, 1.58, 1.89	0.0, 0.0, 80.0	8.97	DOOR Open 07:00-22:00, off continuously
Block A AH4- bed	15.9	0.25	1.89, 1.78	80.0, 0.0	9.99	DOOR Open 07:00-22:00, off continuously
Block A AH5- bed	24.14	0.52	1.58, 1.57, 1.89	0.0, 0.0, 80.0	10.07	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A AH5-bed	18.41	0.25	1.79, 1.89	0.0, 80.0	11.63	DOOR Open 07:00-22:00, off continuously
Block A AH6- bed	25.24	0.52	1.58, 1.58, 1.89	0.0, 0.0, 80.0	11.0	DOOR Open 07:00-22:00, off continuously
Block A AH6- bed	19.0	0.25	1.79, 1.89	0.0, 80.0	11.93	DOOR Open 07:00-22:00, off continuously
Block A2-bed	12.69	0.25	1.79, 1.79, 1.89	0.0, 0.0, 80.0	8.08	DOOR Open 07:00-22:00, off continuously
Block A3-Bed	13.86	0.52, 0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	9.44	DOOR Open 07:00-22:00, off continuously
Block A3-2B4P KLD	11.53	0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	4.63	on continuously, off continuously
Block A3-Bed	34.97	0.25	2.1, 2.1, 1.89	0.0, 0.0, 80.0	8.77	DOOR Open 07:00-22:00, off continuously
Block A AH6- BED	26.4	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.44	DOOR Open 07:00-22:00, off continuously
Block A AH5- bed	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH2- BED	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH3- BED	24.46	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	8.0	DOOR Open 07:00-22:00, off continuously
Block A AH4-BED	22.19	0.52	1.89, 1.3, 1.3, 1.3	80.0, 0.0, 0.0, 0.0	7.26	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block A AH1- BED	13.77	0.52	1.3, 1.3, 1.3, 1.89	0.0, 0.0, 0.0, 80.0	7.27	DOOR Open 07:00-22:00, off continuously
Block A4-bed	9.04	0.25	1.76, 1.76, 0.05, 1.84	0.0, 0.0, 80.0, 80.0	6.68	DOOR Open 07:00-22:00, off continuously
Block A4-Study	15.68	0.25	1.76, 1.76, 1.89	0.0, 0.0, 80.0	12.03	DOOR Open 07:00-22:00, off continuously
Block B7- bed	7.29	0.25	1.86	0.0	0.0	off continuously
Block B7- Sbed	17.25	0.25	1.86	0.0	0.0	off continuously
Block B6- bath	0.0				0.0	
Block B6- bed	15.67	0.52, 0.52	2.07, 1.86, 1.89	0.0, 0.0, 80.0	9.32	DOOR Open 07:00-22:00, off continuously
Block B6- bed	11.98	0.25	1.66, 1.89	0.0, 80.0	10.78	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- 4B8P KLD	26.87	0.52, 0.25	1.89, 2.42, 2.42, 2.42, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.53	on continuously, off continuously
Block B MH3- 4B8P KLD	48.97	0.52, 0.25	1.95, 1.89, 2.64, 2.64, 2.64, 2.64	0.0, 80.0, 0.0, 0.0, 0.0, 0.0	3.83	on continuously, off continuously
Block B MH2- 4B8P KLD	44.92	0.25, 0.52	2.42, 2.42, 2.42, 2.42, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.82	on continuously, off continuously
Block B MH1- 4B8P KLD	41.95	0.25, 0.52	2.42, 2.42, 2.42, 2.42, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 0.0, 80.0	3.61	on continuously, off continuously
Block B2- bed	0.0		1.98	80.0	8.22	DOOR Open 07:00-22:00
Block B MH2- Bed	22.49	0.52	1.43, 1.43, 1.89	0.0, 0.0, 80.0	11.66	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
Block B MH3-bed	22.3	0.52	2.82, 1.89	0.0, 80.0	11.38	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- Study	7.51	0.52	2.07, 1.89	0.0, 80.0	7.84	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	11.35	0.25	1.68, 1.89	0.0, 80.0	9.47	DOOR Open 07:00-22:00, off continuously
Block B MH1-bed	8.59	0.25	1.68, 1.89	0.0, 80.0	9.91	DOOR Open 07:00-22:00, off continuously
Block B MH2-bed	13.68	0.25	2.07, 1.89	0.0, 80.0	9.72	DOOR Open 07:00-22:00, off continuously
Block B5- sbed	14.32	0.25	1.89, 2.73	80.0, 0.0	11.69	DOOR Open 07:00-22:00, off continuously
Block B5- 2B3P KLD	19.59	0.25, 0.25, 0.25	2.1, 0.63, 1.89, 1.89, 1.89	0.0, 0.0, 0.0, 0.0, 80.0	4.89	on continuously, off continuously
Block C8- 3B5P KLD	15.61	0.25, 0.52, 0.25, 0.25	1.89, 2.53, 2.53, 1.89, 0.82, 0.82	80.0, 0.0, 0.0, 0.0, 0.0, 0.0	3.85	on continuously, off continuously
Block B4-Bed	28.62	0.52, 0.52	1.89, 1.86, 1.86	80.0, 0.0, 0.0	10.15	DOOR Open 07:00-22:00, off continuously
Block A1- bed	8.01	0.52, 0.25	1.05, 1.89, 0.89	0.0, 80.0, 0.0	11.43	DOOR Open 07:00-22:00, off continuously
Block A AH1- 4B7P KLD	9.25	0.25, 0.52	1.89, 1.78, 2.64	80.0, 0.0, 0.0	3.23	on continuously, off continuously
Block B MH1-bed	22.04	0.52	2.52, 1.89	0.0, 80.0	10.69	DOOR Open 07:00-22:00, off continuously

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Room name	Window to wall ratio %	Window g-value (EN 410)	Opening gross area m ²	Opening free area (avg) %	Opening free area / floor area ratio %	Opening profile(s)
BLOCK B MH1- Study	13.18	0.52	2.52, 1.89	0.0, 80.0	7.7	DOOR Open 07:00-22:00, off continuously
Block B2-bed	16.3	0.52, 0.52	1.89, 1.89, 1.68	80.0, 0.0, 0.0	9.19	DOOR Open 07:00-22:00, off continuously
BLOCK B MH4- bed	18.88	0.52	2.02, 1.98	0.0, 80.0	11.7	DOOR Open 07:00-22:00, off continuously
BLOCK B MH3- Study	10.85	0.52	2.52, 1.89	0.0, 80.0	8.2	DOOR Open 07:00-22:00, off continuously
Block B MH3-Bed	10.78	0.25	1.68, 1.89	0.0, 80.0	9.45	DOOR Open 07:00-22:00, off continuously
BLOCK B MH2- Study	10.95	0.52	2.52, 1.88	0.0, 80.0	7.98	DOOR Open 07:00-22:00, off continuously
CORRIDOR- BLOCK C	0.0				0.0	
Block C7- Bed	3.01	0.25	1.89, 0.82	80.0, 0.0	10.07	DOOR Open 07:00-22:00, off continuously
Block B2-bed	73.94	0.25	1.89, 1.88	80.0, 0.0	12.38	DOOR Open 07:00-22:00, off continuously

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Modelled ventilation

Room name	Infiltration rate ACH	Mech vent flow rate ACH
Block C1- 2B3P KLD	0.15	0.81
Block C1- bed	0.15	0.68
CORRIDOR- BLOCK C	0.15	0
Block C2- bed	0.15	0.68
Block C3- 1B2P KLD	0.15	0.5
Block A AH1- Study	0.15	1.39
Block A AH2- Study	0.15	1.55
Block A AH3- Study	0.15	1.49
Block A AH4- Study	0.15	1.33
Block A AH5- Study	0.15	1.44
Block A AH6- Study	0.15	1.59
Block C4 - Bed	0.15	0.54
Block C5-bed	0.15	0.54
Block C6- 1B2P KLD	0.15	0.4
Block C4 - 2B3P KLD	0.15	0.73
CORRIDOR-BLOCK B	0.15	0
Block B2- bed	0.15	4.94
Block B2- 2B4P KLD	0.15	0.84
Block B3-Sbed	0.15	1.01
Block B2-2B4P KLD	0.15	0.77
Block B MH1- Bed	0.15	0.89
Block B MH2- Bed	0.15	0.93
Block B MH3-bed	0.15	0.92
BLOCK B MH4- bed	0.15	0.89
Block B3-BED	0.15	3.64
Block C7- 1B2P KLD	0.15	0.57
Block C8- Sbed	0.15	6.39
Block C8- bed	0.15	4.12
Block C8- bed	0.15	1.0
Block B4- 2B4P KLD	0.15	0.76
Block B4- bed	0.15	1.06
Block B6- 2B4P KLD	0.15	0.77
Block B7- 2B3P KLD	0.15	0.79
CORRIDOR- BLOCK C	0.15	0
Block A4-3B5P KLD	0.15	0.59
Block A4-bed	0.15	4.77
Block B3-2B3P KLD	0.15	0.79
Block C3- bed	0.15	0.63
Block C1- Sbed	0.15	1.02
Block C2- 1B2P KLD	0.15	0.46

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Room name	Infiltration rate ACH	Mech vent flow rate ACH
Block C4 - Sbed	0.15	0.93
Block C6- bed	0.15	0.51
Block C5-1B2P KLD	0.15	0.36
Block B5- bed	0.15	0.84
Block A AH2- 4B7P KLD	0.15	0.52
Block A AH3- 4B7P KLD	0.15	0.52
Block A2- 1B2P LD	0.15	0.99
Block A AH6- 4B7P KLD	0.15	0.54
Block A AH4- 4B7P KLD	0.15	0.49
Block A AH5- 4B7P KLD	0.15	0.51
Block A1- bed	0.15	0.82
Block A2- Kitchen	0.15	1.4
Block A1- 2B4P KLD	0.15	0.62
Block A AH1- bed	0.15	0.69
Block A AH1- bed	0.15	0.69
Block A AH2- bed	0.15	0.77
Block A AH2- bed	0.15	0.87
Block A AH3-Bed	0.15	0.76
Block A AH3-Bed	0.15	0.81
Block A AH4- bed	0.15	0.65
Block A AH4- bed	0.15	0.72
Block A AH5- bed	0.15	0.73
Block A AH5-bed	0.15	0.84
Block A AH6- bed	0.15	0.79
Block A AH6- bed	0.15	0.86
Block A2-bed	0.15	0.58
Block A3-Bed	0.15	0.68
Block A3-2B4P KLD	0.15	0.67
Block A3-Bed	0.15	0.63
Block A AH6- BED	0.15	4.19
Block A AH5- bed	0.15	3.97
Block A AH2- BED	0.15	3.97
Block A AH3- BED	0.15	3.97
Block A AH4-BED	0.15	3.6
Block A AH1- BED	0.15	3.61
Block A4-bed	0.15	0.48
Block A4-Study	0.15	0.87
Block B7- bed	0.15	0.73
Block B7- Sbed	0.15	1.02
Block B6- bath	0.15	4.87
Block B6- bed	0.15	0.79
Block B6- bed	0.15	0.92

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Room name	Infiltration rate ACH	Mech vent flow rate ACH
BLOCK B MH4- 4B8P KLD	0.15	0.6
Block B MH3- 4B8P KLD	0.15	0.65
Block B MH2- 4B8P KLD	0.15	0.65
Block B MH1- 4B8P KLD	0.15	0.61
Block B2- bed	0.15	0.67
Block B MH2- Bed	0.15	0.99
Block B MH3-bed	0.15	0.97
BLOCK B MH4- Study	0.15	0.67
BLOCK B MH4- bed	0.15	0.81
Block B MH1-bed	0.15	0.84
Block B MH2-bed	0.15	0.84
Block B5- sbed	0.15	4.97
Block B5- 2B3P KLD	0.15	0.83
Block C8- 3B5P KLD	0.15	0.65
Block B4-Bed	0.15	0.86
Block A1- bed	0.15	4.12
Block A AH1- 4B7P KLD	0.15	0.47
Block B MH1-bed	0.15	0.91
BLOCK B MH1- Study	0.15	0.66
Block B2-bed	0.15	0.78
BLOCK B MH4- bed	0.15	0.95
BLOCK B MH3- Study	0.15	0.7
Block B MH3-Bed	0.15	0.8
BLOCK B MH2- Study	0.15	0.68
CORRIDOR- BLOCK C	0.15	0
Block C7- Bed	0.15	4.28
Block B2-bed	0.15	1.05