

READING POLICE STATION

OVERHEATING STUDY

DATE:	MAR 2026	ISSUE:	3
REFERENCE:	3778-PSH-ZZ-ZZ-RP-SE-0002	STATUS:	-

DOCUMENT CONTROL

ISSUE	DATE	STATUS	PSH PREPARED	PSH CHECKED	PSH AUTHORISED
1	20.03.26	FOR REVIEW	RT	MB	AH
2	09.04.26	FOR PLANNING	RT	MB	AH
3	15.05.26	UPDATED TO LATEST ARCHITECT'S PLANS	RT	M	AH

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1. EXECUTIVE SUMMARY

This report provides details of the overheating assessment undertaken by PSH Consulting on behalf of S2 Estates at Reading Police Station.

PSH Consulting has undertaken overheating assessments for Reading Police Station using Dynamic Thermal Simulation in accordance with CIBSE TM59 including relevant restrictions and guidance on window openings contained within ADO including security and acoustic impacts.

A fabric first approach has been adopted to reduce the extent of summertime overheating with modelling undertaken in IES VE altering one or more fabric performance measures before considering enhancements in mechanical ventilation and finally MVHR cooling.

Prior to consideration of the acoustic limitations of openable windows, all of the 140 modelled habitable rooms are shown to meet the requirements of Approved Document O.

MVHR peak lopping (providing cooling to all habitable rooms) is proposed to meet the requirements of ADO, with the following graphs providing an overview of the design process undertaken and to illustrate the impact on closing windows in areas of noise intrusion exceeding ADO guidance.



2. READING POLICE STATION - OVERHEATING ASSESSMENT

2.1 INTRODUCTION

PSH Consulting has been engaged by S2 Estates to undertake assessments for the risk of overheating of the residential apartments at the development "Reading Police Station".

The development comprises the construction of 205 build to rent apartments, amenity spaces and associated plant and back of house spaces. The development is intended to comply with Approved Document O to demonstrate that the risk of summertime overheating within apartments has been suitably reduced.

Dynamic thermal modelling has been used to assess the risk of overheating. The thermal modelling has applied the cooling hierarchy process by applying the following attributes:

- Minimising internal heat gains
- Use of passive measures
- Implementation of increased mechanical ventilation rates

The dynamic thermal modelling has been undertaken to show compliance with Part O via a CIBSE TM59 assessment using the Swindon climate change weather files (DSY1 & DSY2), including specific exclusions (such as internal blinds) stipulated in Part O.

MVHR cooling has been considered in apartments only where bedrooms fail Part O due to limitations on opening windows for acoustic reasons. Compliance through passive measures alone is targeted within all other habitable rooms.

2.2 THERMAL MODELLING PROCESS

Dynamic Thermal Models of the design proposals have been constructed to investigate the overheating risks within apartments at Reading Police Station. The simulation has been run using IES VE, a dynamic thermal modelling tool via the following method:

- Construction of a geometric model of the development proposal (IES – Model IT)
- Definition of the construction module's fabric performance properties (IES - Apache)
- Definition of the loads and conditions for each zone (IES - Apache)
- Solar Shading Analysis (IES – Sunblast)
- Radiance (Daylighting)
- Dynamic simulation (IES – ApacheSim) – For overheating analysis

The ApacheSim thermal simulation engine, supported by the Sunblast and Macroflo modules, complies with the requirements of CIBSE Application Manual AM11.

Typical residential floor layouts have been modelled for the floors with the highest perceived risk of overheating, and to ensure that all apartment types have been modelled. A total of 140 habitable rooms have been considered in this assessment. The architectural design has been optimised to maximise daylighting and lower the dwelling operating costs, whilst exhibiting an acceptable risk of overheating.

The images below are taken from the IES model.

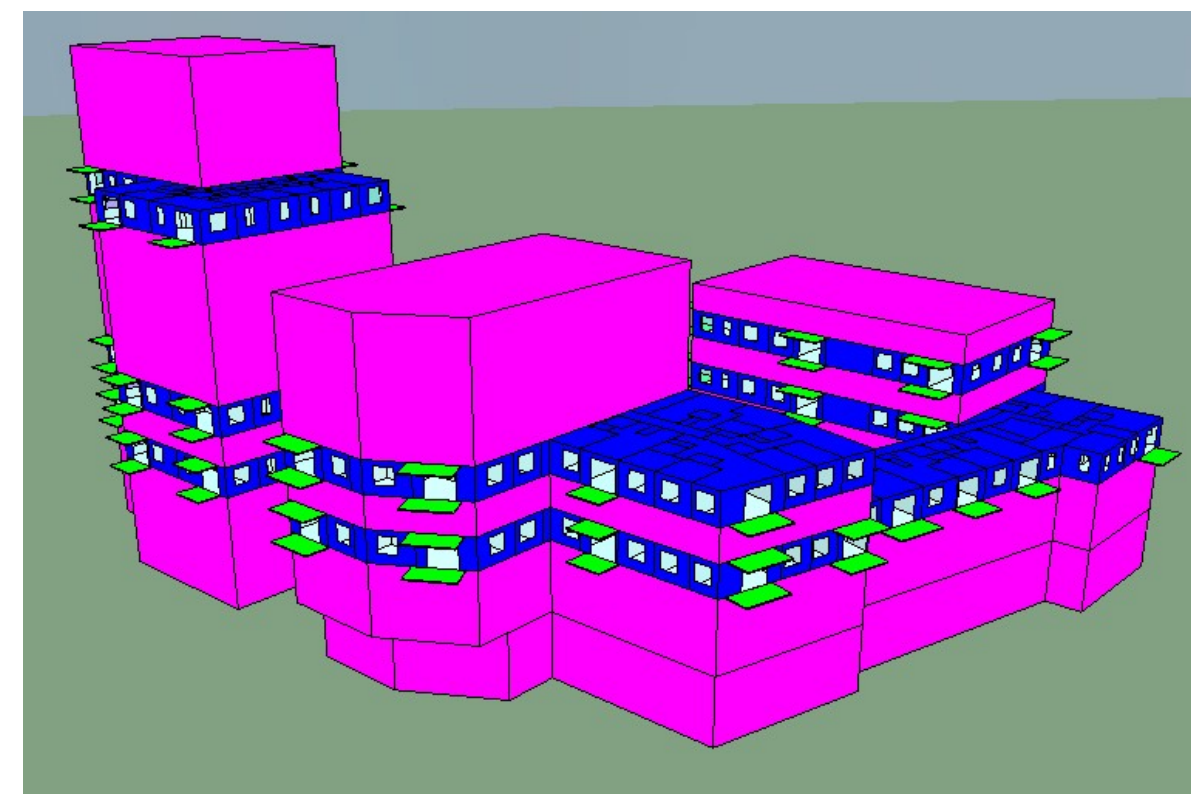


Figure 1: SW view

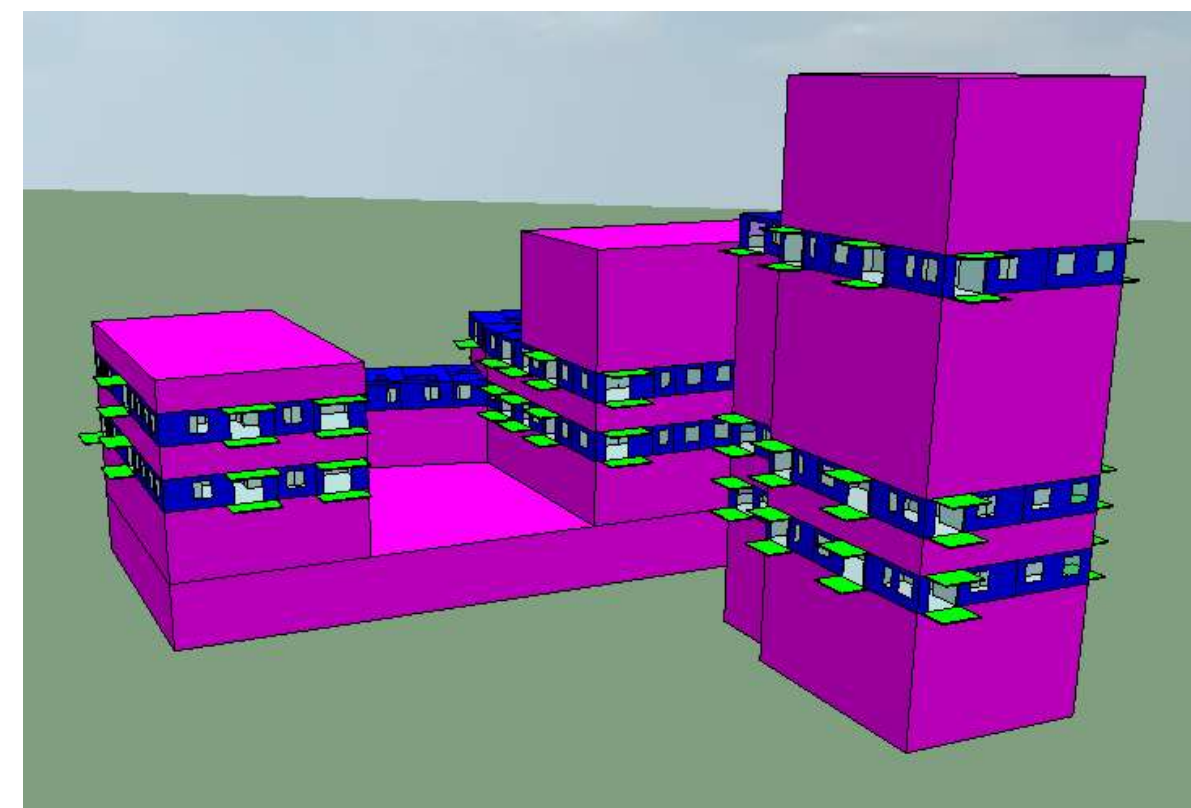


Figure 2: NE view

2.3 DESIGN PARAMETERS

The fabric performance of the building is shown in Table 1, which has been considered under the SAP assessments.

Element	Performance
Air Tightness	3.0 m3/hm3@50Pa
External Wall	0.15 W/m²K
Roof	0.10 W/m²K
Window	1.20 W/m²K (including frame)
Glazing (g-value)	0.5 (initial value)

Table 1: Thermal Performance

2.4 CIBSE TM59 CRITERIA

The CIBSE TM59 document defines the limits of thermal comfort in order to avoid overheating in European buildings. For residential developments this criterion is sub-categorised by two criteria:

- The first criterion sets a limit for the number of hours the operative temperature can exceed the threshold comfort temperature by 1K or more during the occupied hours of a typical non-heating season (1 May to 30 September). This equates to a maximum of 60 hours.
- The second criterion only applies to bedrooms. TM59 guide section 4.2 criterion B (bedrooms) Operative temperature from 10pm to 7am shall not exceed 26°C for more than 1% of annual hours. This equates to a maximum of 30 hours.

2.5 APPROVED DOCUMENT O CRITERIA

Approved Document O provides specific criteria for the opening of windows:

- Closed during sleeping hours (11pm-7am) if noise within bedrooms exceeds 40dB LAeq,T, averaged over 8 hours (between 11pm and 7am) or 55dB LAFmax, more than 10 times a night (between 11pm and 7am).
- Closed during sleeping hours (11pm-7am) in ground floor or apartment deemed easily accessible.
- Opening profiles based on temperatures between 22°C (closed) and 26°C (opened).

3. ASSESSMENT PROCEDURE

The detailed assessment of Reading Police Station is provided to demonstrate the process undertaken in assessing buildings under CIBSE TM59.

3.1 ITERATION 1

The initial overheating study (referred to as the baseline herein) has taken the architectural design as initially intended alongside the fabric performance provided.

PSH has also modelled the following design considerations:

- All windows opening in line with Approved Document O
- Windows set back 140mm from façade as per architect's drawings.
- Standard MVHR ventilation rates (minimum requirement for Part F compliance)

The baseline provides a reasonable assessment as to the passive design features of the building as intended with the quantity and severity of overheating rooms providing a guide of the level of changes required. The baseline provides an 86% compliance rate with South-West facing living/kitchen/dining rooms failing.

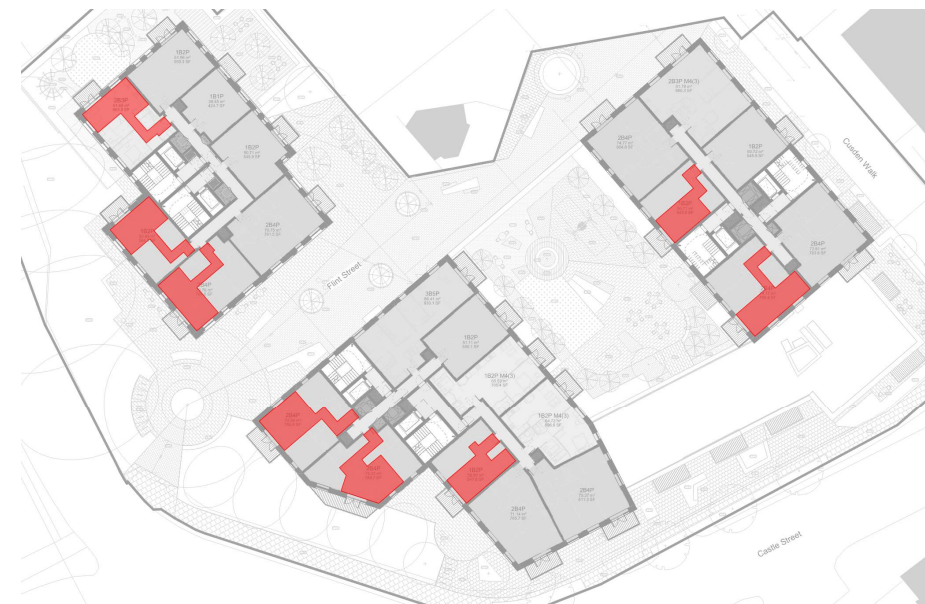


Figure 3: Iteration 1

3.2 ITERATION 2

As the baseline plus:

- Overshading provided by architectural features, i.e. balconies



Figure 4: Iteration 2

The overall pass mark increases to 97%, however failures on the South-West elevation are still experienced.

3.3 ITERATION 3

As Iteration 2 plus:

- Glazing g-value reduced to 0.4



Figure 5: Iteration 3

Only a single apartment is now expected to fail

3.4 ITERATION 4

As the Iteration 3 plus:

- Boost MVHR ventilation rates
 - 1 bed apartment- 30l/s Living/Kitchen, 20l/s Bedroom
 - 2 bed apartment- 20l/s Living/Kitchen, 15l/s Bedroom
 - 3 bed apartment- 20l/s Living/Kitchen, 10l/s Bedroom

As a result, all modelled apartments are found to comply

3.5 ITERATION 5

As the Iteration 4 plus:

- Glazing g-value reduced to 0.35

The reduced glazing g-value was adopted across the property to reduce cooling demand in the mechanically cooled non-domestic areas. All rooms were already found to comply, but demonstrate a slight improvement in performance with the reduced solar gains.

3.6 ITERATION 6

As Iteration 5 plus:

- Openings restricted as Part O



Figure 6: Iteration 6

Iteration 6 introduces the window opening restrictions dictated by Approved Document O due to the noise levels experienced in the apartments. An acoustic survey has demonstrated that the majority of bedrooms are anticipated to experience noise ingress issue, although some East-facing windows or windows facing the central rooftop terrace on Block A are predicted to have no acoustic problems. All bedroom windows on the acoustic façade have been modelled with nighttime acoustic restrictions. The majority of bedrooms now fail the overheating assessment.

3.7 ITERATION 7

As Iteration 6 plus:

- Boost MVHR ventilation rates
 - 1 bed apartment- 55l/s Living/Kitchen, 35l/s Bedroom
 - 2 bed apartment- 40l/s Living/Kitchen, 25l/s Bedroom
 - 3 bed apartment- 33l/s Living/Kitchen, 19l/s Bedroom
- MVHR Peak Lopping

Iteration 7 provides cooling through the MVHR units with the provision of Nuaire's MR-ECO-COOL-V unit. The self-contained DX cooling unit provides cooling to the MVHR unit supply air only, and in the assessment for Reading Police Station is limited at 90l/s.

The provision of MVHR unit cooling allows the building to achieve compliance with Part O when considering the acoustic constraints.

4. Results and Conclusion

The results from the overheating assessment carried out show that the building has the ability to comply with the requirements of CIBSE TM59 and Part O should apartments not suffer from noise intrusion above the limits prescribed in Part O. All rooms are shown to be compliant with TM59/Part O with the inclusion of the following design changes to the current scheme, i.e. iteration 5:

- Glazing g-value reduced to 0.35.
- Boost MVHR ventilation rates
 - 1 bed apartment- 30l/s Living/Kitchen, 20l/s Bedroom
 - 2 bed apartment- 20l/s Living/Kitchen, 15l/s Bedroom
 - 3 bed apartment- 20l/s Living/Kitchen, 10l/s Bedroom

When acoustic considerations are introduced, the building fails the requirements of Part O. Unsurprisingly, the majority of bedrooms fail the criteria of TM59 as depicted below.



Figure 7: Building Performance with Acoustic Considerations

To comply with Approved Document O, the following measures are required:

- Glazing g-value reduced to 0.35.
- Boost MVHR ventilation rates
 - 1 bed apartment- 55l/s Living/Kitchen, 35l/s Bedroom
 - 2 bed apartment- 40l/s Living/Kitchen, 25l/s Bedroom
 - 3 bed apartment- 33l/s Living/Kitchen, 19l/s Bedroom
- MVHR Peak Lopping

4.1 DESIGN PROCESS SUMMARY

Figure 8 provides a summary of results as the various iterations for Reading Police Station have been undertaken.



Figure 8: Design Summary and Results

5. CONCLUSION

Overheating assessments have been undertaken for Reading Police Station using Dynamic Thermal Simulation in accordance with CIBSE TM59 including relevant restrictions and guidance on window openings contained with ADO including security and acoustic impacts.

A fabric first approach has been adopted to reduce the extent of summertime overheating with modelling undertaken in IES VE altering one or more fabric performance measures before considering enhancements in mechanical ventilation and finally MVHR cooling.

Prior to consideration of the acoustic limitations of openable windows, all of the 140 modelled habitable rooms are shown to meet the requirements of Approved Document O.

MVHR peak lopping (providing cooling to all habitable rooms) is proposed to meet the requirements of ADO in areas of noise intrusion exceeding ADO guidance.

6. APPENDIX A

6.1 ITERATION 7 – DSY 1

Room Name	Criterion (a)	Criterion (b)	Pass/Fail
Block A 301 LKD	Pass	NA	Pass
Block A 301 Bedroom 1	Pass	Pass	Pass
Block A 301 Bedroom 2	Pass	Pass	Pass
Block A 302 LKD	Pass	NA	Pass
Block A 302 Bedroom 1	Pass	Pass	Pass
Block A 302 Bedroom 2	Pass	Pass	Pass
Block A 303 Bedroom	Pass	Pass	Pass
Block A 303 LKD	Pass	NA	Pass
Block A 304 Bedroom 1	Pass	Pass	Pass
Block A 304 Bedroom 2	Pass	Pass	Pass
Block A 305 LKD	Pass	NA	Pass
Block A 305 Bedroom 1	Pass	Pass	Pass
Block A 305 Bedroom 2	Pass	Pass	Pass
Block A 305 Bedroom 3	Pass	Pass	Pass
Block A 306 Bedroom	Pass	Pass	Pass
Block A 306 LKD	Pass	NA	Pass
Block A 307 Bedroom	Pass	Pass	Pass
Block A 307 LKD	Pass	NA	Pass
Block A 308 LKD	Pass	NA	Pass
Block A 304 LKD	Pass	NA	Pass

Block A 309 Bedroom 1	Pass	Pass	Pass
Block A 309 Bedroom 2	Pass	Pass	Pass
Block A 308 Bedroom	Pass	Pass	Pass
Block A 310 Bedroom 1	Pass	Pass	Pass
Block A 310 Bedroom 2	Pass	Pass	Pass
Block A 309 LKD	Pass	NA	Pass
Block A 310 LKD	Pass	NA	Pass
Block A 311 LKD	Pass	NA	Pass
Block A 311 Bedroom	Pass	Pass	Pass
Block A 320 Bedroom	Pass	Pass	Pass
Block A 320 LKD	Pass	NA	Pass
Block A 312 Bedroom 1	Pass	Pass	Pass
Block A 312 LKD	Pass	NA	Pass
Block A 312 Bedroom 2	Pass	Pass	Pass
Block A 313 LKD	Pass	NA	Pass
Block A 313 Bedroom	Pass	Pass	Pass
Block A 314 LKD	Pass	NA	Pass
Block A 314 Bedroom 1	Pass	Pass	Pass
Block A 314 Bedroom 2	Pass	Pass	Pass
Block A 315 Bedroom 1	Pass	Pass	Pass
Block A 315 Bedroom 2	Pass	Pass	Pass
Block A 315 LKD	Pass	NA	Pass
Block A 316 LKD	Pass	NA	Pass

Block A 316 Bedroom	Pass	Pass	Pass
Block A 317 LKD	Pass	NA	Pass
Block A 317 Bedroom	Pass	Pass	Pass
Block A 318 Bedroom 1	Pass	Pass	Pass
Block A 318 Bedroom 2	Pass	Pass	Pass
Block A 318 LKD	Pass	NA	Pass
Block A 319 Bedroom 1	Pass	Pass	Pass
Block A 319 Bedroom 2	Pass	Pass	Pass
Block A 319 LKD	Pass	NA	Pass
Block B 301 LKD	Pass	NA	Pass
Block B 301 Bedroom	Pass	Pass	Pass
Block B 302 LKD	Pass	NA	Pass
Block B 302 Bedroom 1	Pass	Pass	Pass
Block B 302 Bedroom 2	Pass	Pass	Pass
Block B 303 LKD	Pass	NA	Pass
Block B 303 Bedroom 1	Pass	Pass	Pass
Block B 303 Bedroom 2	Pass	Pass	Pass
Block B 304 Bedroom	Pass	Pass	Pass
Block B 306 Bedroom 1	Pass	Pass	Pass
Block B 306 Bedroom 2	Pass	Pass	Pass
Block B 306 LKD	Pass	NA	Pass
Block B 304 LKD	Pass	NA	Pass
Block B 305 Studio	Pass	Pass	Pass

Block B 307 Bedroom	Pass	Pass	Pass
Block B 307 LKD	Pass	NA	Pass
Block A 501 LKD	Pass	NA	Pass
Block A 501 Bedroom 1	Pass	Pass	Pass
Block A 501 Bedroom 2	Pass	Pass	Pass
Block A 502 LKD	Pass	NA	Pass
Block A 502 Bedroom 1	Pass	Pass	Pass
Block A 502 Bedroom 2	Pass	Pass	Pass
Block A 503 Bedroom	Pass	Pass	Pass
Block A 503 LKD	Pass	NA	Pass
Block A 504 Bedroom 1	Pass	Pass	Pass
Block A 504 Bedroom 2	Pass	Pass	Pass
Block A 505 LKD	Pass	NA	Pass
Block A 505 Bedroom 1	Pass	Pass	Pass
Block A 505 Bedroom 2	Pass	Pass	Pass
Block A 505 Bedroom 3	Pass	Pass	Pass
Block A 506 Bedroom	Pass	Pass	Pass
Block A 506 LKD	Pass	NA	Pass
Block A 507 Bedroom	Pass	Pass	Pass
Block A 507 LKD	Pass	NA	Pass
Block A 508 LKD	Pass	NA	Pass
Block A 504 LKD	Pass	NA	Pass
Block A 509 Bedroom 1	Pass	Pass	Pass

Block A 509 Bedroom 2	Pass	Pass	Pass
Block A 508 Bedroom	Pass	Pass	Pass
Block A 514 LKD	Pass	NA	Pass
Block A 514 Bedroom 1	Pass	Pass	Pass
Block A 514 Bedroom 2	Pass	Pass	Pass
Block A 515 Bedroom 1	Pass	Pass	Pass
Block A 515 Bedroom 2	Pass	Pass	Pass
Block A 516 LKD	Pass	NA	Pass
Block A 516 Bedroom	Pass	Pass	Pass
Block A 517 LKD	Pass	NA	Pass
Block A 517 Bedroom	Pass	Pass	Pass
Block A 518 Bedroom 1	Pass	Pass	Pass
Block A 518 Bedroom 2	Pass	Pass	Pass
Block A 518 LKD	Pass	NA	Pass
Block A 519 Bedroom 1	Pass	Pass	Pass
Block A 519 Bedroom 2	Pass	Pass	Pass
Block A 519 LKD	Pass	NA	Pass
Block B 501 LKD	Pass	NA	Pass
Block B 501 Bedroom	Pass	Pass	Pass
Block B 502 LKD	Pass	NA	Pass
Block B 502 Bedroom 1	Pass	Pass	Pass
Block B 502 Bedroom 2	Pass	Pass	Pass
Block B 503 LKD	Pass	NA	Pass

Block B 503 Bedroom 1	Pass	Pass	Pass
Block B 503 Bedroom 2	Pass	Pass	Pass
Block B 504 Bedroom	Pass	Pass	Pass
Block B 506 Bedroom 1	Pass	Pass	Pass
Block B 506 Bedroom 2	Pass	Pass	Pass
Block B 506 LKD	Pass	NA	Pass
Block B 504 LKD	Pass	NA	Pass
Block B 505 Studio	Pass	Pass	Pass
Block B 507 Bedroom	Pass	Pass	Pass
Block B 507 LKD	Pass	NA	Pass
Block A 509 LKD	Pass	NA	Pass
Block A 515 LKD	Pass	NA	Pass
Block B 1101 LKD	Pass	NA	Pass
Block B 1101 Bedroom	Pass	Pass	Pass
Block B 1102 LKD	Pass	NA	Pass
Block B 1102 Bedroom 1	Pass	Pass	Pass
Block B 1102 Bedroom 2	Pass	Pass	Pass
Block B 1103 LKD	Pass	NA	Pass
Block B 1103 Bedroom 1	Pass	Pass	Pass
Block B 1103 Bedroom 2	Pass	Pass	Pass
Block B 1104 Bedroom	Pass	Pass	Pass
Block B 1106 Bedroom 1	Pass	Pass	Pass
Block B 1106 Bedroom 2	Pass	Pass	Pass

Block B 1106 LKD	Pass	NA	Pass
Block B 1104 LKD	Pass	NA	Pass
Block B 1105 Studio	Pass	Pass	Pass
Block B 1107 Bedroom	Pass	Pass	Pass
Block B 1107 LKD	Pass	NA	Pass

6.2 ITERATION 7 – DSY 2

Room Name	Criterion (a)	Criterion (b)	Pass/Fail
Block A 301 LKD	Pass	NA	Pass
Block A 301 Bedroom 1	Pass	Pass	Pass
Block A 301 Bedroom 2	Pass	Pass	Pass
Block A 302 LKD	Pass	NA	Pass
Block A 302 Bedroom 1	Pass	Pass	Pass
Block A 302 Bedroom 2	Pass	Pass	Pass
Block A 303 Bedroom	Pass	Pass	Pass
Block A 303 LKD	Pass	NA	Pass
Block A 304 Bedroom 1	Pass	Pass	Pass
Block A 304 Bedroom 2	Pass	Pass	Pass
Block A 305 LKD	Pass	NA	Pass
Block A 305 Bedroom 1	Pass	Pass	Pass
Block A 305 Bedroom 2	Pass	Pass	Pass
Block A 305 Bedroom 3	Pass	Pass	Pass
Block A 306 Bedroom	Pass	Pass	Pass
Block A 306 LKD	Pass	NA	Pass

Block A 307 Bedroom	Pass	Pass	Pass
Block A 307 LKD	Pass	NA	Pass
Block A 308 LKD	Pass	NA	Pass
Block A 304 LKD	Pass	NA	Pass
Block A 309 Bedroom 1	Pass	Pass	Pass
Block A 309 Bedroom 2	Pass	Pass	Pass
Block A 308 Bedroom	Pass	Pass	Pass
Block A 310 Bedroom 1	Pass	Pass	Pass
Block A 310 Bedroom 2	Pass	Pass	Pass
Block A 309 LKD	Pass	NA	Pass
Block A 310 LKD	Pass	NA	Pass
Block A 311 LKD	Pass	NA	Pass
Block A 311 Bedroom	Pass	Pass	Pass
Block A 320 Bedroom	Pass	Pass	Pass
Block A 320 LKD	Pass	NA	Pass
Block A 312 Bedroom 1	Pass	Pass	Pass
Block A 312 LKD	Pass	NA	Pass
Block A 312 Bedroom 2	Pass	Pass	Pass
Block A 313 LKD	Pass	NA	Pass
Block A 313 Bedroom	Pass	Pass	Pass
Block A 314 LKD	Pass	NA	Pass
Block A 314 Bedroom 1	Pass	Pass	Pass
Block A 314 Bedroom 2	Pass	Pass	Pass

Block A 315 Bedroom 1	Pass	Pass	Pass
Block A 315 Bedroom 2	Pass	Pass	Pass
Block A 315 LKD	Pass	NA	Pass
Block A 316 LKD	Pass	NA	Pass
Block A 316 Bedroom	Pass	Pass	Pass
Block A 317 LKD	Pass	NA	Pass
Block A 317 Bedroom	Pass	Pass	Pass
Block A 318 Bedroom 1	Pass	Pass	Pass
Block A 318 Bedroom 2	Pass	Pass	Pass
Block A 318 LKD	Pass	NA	Pass
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Block A 319 LKD	Pass	NA	Pass
Block B 301 LKD	Pass	NA	Pass
Block B 301 Bedroom	Pass	Pass	Pass
Block B 302 LKD	Pass	NA	Pass
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Block B 302 Bedroom 2	Pass	Pass	Pass
Block B 303 LKD	Pass	NA	Pass
Block B 303 Bedroom 1	Pass	Pass	Pass
Block B 303 Bedroom 2	Pass	Pass	Pass
Block B 304 Bedroom	Pass	Pass	Pass
Block B 306 Bedroom 1	Pass	Pass	Pass

Block B 306 Bedroom 2	Pass	Pass	Pass
Block B 306 LKD	Pass	NA	Pass
Block B 304 LKD	Pass	NA	Pass
Block B 305 Studio	Pass	Pass	Pass
Block B 307 Bedroom	Pass	Pass	Pass
Block B 307 LKD	Pass	NA	Pass
Block A 501 LKD	Pass	NA	Pass
Block A 501 Bedroom 1	Pass	Pass	Pass
Block A 501 Bedroom 2	Pass	Pass	Pass
Block A 502 LKD	Pass	NA	Pass
Block A 502 Bedroom 1	Pass	Pass	Pass
Block A 502 Bedroom 2	Pass	Pass	Pass
Block A 503 Bedroom	Pass	Pass	Pass
Block A 503 LKD	Pass	NA	Pass
Block A 504 Bedroom 1	Pass	Pass	Pass
Block A 504 Bedroom 2	Pass	Pass	Pass
Block A 505 LKD	Pass	NA	Pass
Block A 505 Bedroom 1	Pass	Pass	Pass
Block A 505 Bedroom 2	Pass	Pass	Pass
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Block A 506 Bedroom	Pass	Pass	Pass
Block A 506 LKD	Pass	NA	Pass
Block A 507 Bedroom	Pass	Pass	Pass

Block A 507 LKD	Pass	NA	Pass
Block A 508 LKD	Pass	NA	Pass
Block A 504 LKD	Pass	NA	Pass
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Block A 514 Bedroom 2	Pass	Pass	Pass
Block A 515 Bedroom 1	Pass	Pass	Pass
Block A 515 Bedroom 2	Pass	Pass	Pass
Block A 516 LKD	Pass	NA	Pass
Block A 516 Bedroom	Pass	Pass	Pass
Block A 517 LKD	Pass	NA	Pass
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Block A 518 Bedroom 2	Pass	Pass	Pass
Block A 518 LKD	Pass	NA	Pass
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Block A 519 Bedroom 2	Pass	Pass	Pass
Block A 519 LKD	Pass	NA	Pass
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Block B 501 Bedroom	Pass	Pass	Pass

Block B 502 LKD	Pass	NA	Pass
Block B 502 Bedroom 1	Pass	Pass	Pass
Block B 502 Bedroom 2	Pass	Pass	Pass
Block B 503 LKD	Pass	NA	Pass
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Block B 503 Bedroom 2	Pass	Pass	Pass
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Block B 506 Bedroom 1	Pass	Pass	Pass
Block B 506 Bedroom 2	Pass	Pass	Pass
Block B 506 LKD	Pass	NA	Pass
Block B 504 LKD	Pass	NA	Pass
Block B 505 Studio	Pass	Pass	Pass
Block B 507 Bedroom	Pass	Pass	Pass
Block B 507 LKD	Pass	NA	Pass
Block A 509 LKD	Pass	NA	Pass
Block A 515 LKD	Pass	NA	Pass
Block B 1101 LKD	Pass	NA	Pass
Block B 1101 Bedroom	Pass	Pass	Pass
Block B 1102 LKD	Pass	NA	Pass
Block B 1102 Bedroom 1	Pass	Pass	Pass
Block B 1102 Bedroom 2	Pass	Pass	Pass
Block B 1103 LKD	Pass	NA	Pass
Block B 1103 Bedroom 1	Pass	Pass	Pass

Block B 1103 Bedroom 2	Pass	Pass	Pass
Block B 1104 Bedroom	Pass	Pass	Pass
Block B 1106 Bedroom 1	Pass	Pass	Pass
Block B 1106 Bedroom 2	Pass	Pass	Pass
Block B 1106 LKD	Pass	NA	Pass
Block B 1104 LKD	Pass	NA	Pass
Block B 1105 Studio	Pass	Pass	Pass
Block B 1107 Bedroom	Pass	Pass	Pass
Block B 1107 LKD	Pass	NA	Pass



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