

create
CONSULTING
ENGINEERS LTD

11-12 INGESTRE ROAD, LONDON, NW5 1UX
Overheating Assessment

11-12 INGESTRE ROAD, LONDON, NW5 1UX

Overheating Assessment

Client: Four Quarters (Ingestre Road) Ltd

Engineer: Create Consulting Engineers Limited
15 Princes Street
Norwich
NR3 1AF

Tel: 01603 877010
Email: enquiries@createconsultingengineers.co.uk
Web: www.createconsultingengineers.co.uk

Report By: Alicja Kreglewska, MSc, OCDEA, NDEA, DEA

Checked By: Deborah Elliott, BSc (Hons), BREEAM AP, OCDEA, DEA

Reference: AK/CC/P17-1282/11

Date: July 2018

11-12 INGESTRE ROAD, LONDON, NW5 1UX
Overheating Assessment

11-12 INGESTRE ROAD, LONDON, NW5 1UX

Overheating Assessment

Contents

Executive Summary

1.0 Introduction

2.0 Model Information

- Dynamic Thermal Analysis Software
- Site Location and Description
- Unit Sampling and Layouts
- GLA Requirements and CIBSE TM49: Design Summer Years for London
- GLA Requirements and CIBSE TM52: The limits of thermal comfort: avoiding overheating in European buildings
- CIBSE TM59: Design methodology for the assessment of overheating risk in homes
- Overheating Criteria
- Construction Elements and Thermal Mass
- Ventilation Strategy
- Plans and Elevations
- Weather files and Thermal Comfort Category

3.0 Results of the Simulation

- TM59 Bedroom Compliance
- TM59 Corridor Checks
- TM59 (TM52 Criterion 1) Kitchen, Living rooms, Bedrooms Compliance
- TM52 Non-domestic spaces

4.0 BREEAM Hea 04 Thermal Comfort Criteria

5.0 Disclaimer

Appendices

- A. Images of the modelled building
- B. Construction/Material Information
- C. Ventilation Rates and Internal Gains
- D. Operable Windows and Internal Shading Assumptions
- E. TM59 Bedroom Compliance Check
- F. TM59 Corridor Check
- G. DSY1 TM52 Compliance Check
- H. DSY2 TM52 Compliance Check
- I. DSY3 TM52 Compliance Check
- J. DSY1 2020High50 TM52 Compliance Check
- K. Hea 04 TM52 DSY05 Compliance check
- L. Hea 04 TM52 DSY2020H Compliance Check

REGISTRATION OF AMENDMENTS

Revision	Amendment Details	Revision Prepared By	Revision Approved By

EXECUTIVE SUMMARY

Create Consulting Engineers Ltd has been appointed to provide an overheating analysis to support the forthcoming planning application for a proposed Extra Care Development at the site of the former care home at 11 - 12 Ingestre Road, London NW5 1UX.

The overheating assessment has been carried out in accordance with TM49: Design Summer Years for London 2014 as stipulated by the GLA (Greater London Authority). This study has also been completed in accordance with TM59: Design Methodology for the assessment of overheating risk in homes and TM52: The limits of Thermal Comfort: Avoiding Overheating in European Buildings 2013 (the latest guidance from the Chartered Institute of Building Services Engineers (CIBSE) for overheating in non-air conditioned European buildings).

The overheating assessment has also been carried out in accordance with the guidelines laid out in Hea 04 Thermal Comfort and CIBSE AM11: Building Energy and Environmental Modelling to inform the BREEAM strategy and confirm the predicted achievable credits for the development.

IES VE (Integrated Environmental Solutions Virtual Environment), a dynamic thermal modeling software tool, has been used to predict the temperatures and risk of overheating of the living spaces inside the scheme.

This assessment finds that all kitchen, living rooms and bedrooms within the residential part of the development pass all of the overheating criteria as detailed in TM59.

Additionally, all of the communal corridors have passed the overheating criteria for all weather files used in this assessment.

It has been identified that some non-domestic areas are at risk of overheating. This occurs largely due to internal gains (lighting and equipment) and auxiliary ventilation gains. The mechanical ventilation with heat recovery, which has been modelled for these spaces, does not account for the summer bypass feature. This will have to be taken into account when a detailed mechanical design is developed to avoid increase in internal temperatures during warmer months. Comfort cooling proposed for non-domestic areas as part of the design will ensure thermal comfort in these spaces is achieved.

This report finds that the development meets the thermal comfort criteria of CIBSE TM52 for both a current and future weather scenario as outlined in Credit 1 and Credit 2 of Hea 04: Thermal Comfort.

1.0 INTRODUCTION

- 1.1 Create Consulting Engineers Ltd has been commissioned by Four Quarters (Ingestre Road) Ltd to prepare an over-heating analysis for the Ingestre Road development to support the planning application for a proposed Extra Care Development.
- 1.2 This report demonstrates how temperatures reached inside the domestic and commercial areas were predicted using dynamic simulation modelling and whether these results comply with guidance contained with the London Plan, TM49, TM52, TM59 and BREEAM Hea 04 assessment criteria.

2.0 MODEL INFORMATION

Dynamic Thermal Analysis Software

- 2.1 The thermal model was produced using IES VE version 2017.4.0.0, a full dynamic simulation modelling software capable of performing simulations for large and complex buildings. IES VE can produce accurate predictions of internal temperatures to allow designers to make decisions on cooling and ventilation strategies.

Site Location and Description

- 2.2 The former Ingestre Road Care Home for the Elderly (C2 Use Class) included 48 self-contained bedrooms for residents. It closed in 2013, when the then residents were relocated to more modern and fit for purpose elderly person's accommodation at Maitland Park.
- 2.3 The Site is located at 11 - 12 Ingestre Road in the London Borough of Camden. Please refer to Figure 1 below for site location.

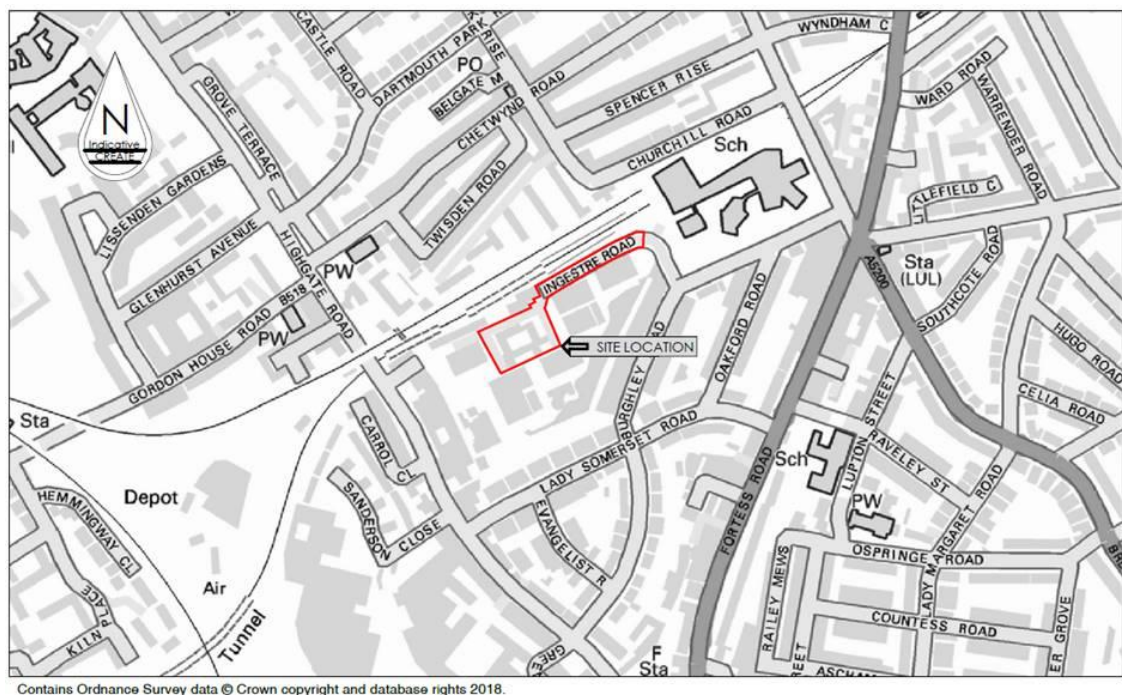


Figure 1: Site location plan

- 2.4 The site is surrounded by residential buildings and is located in close proximity to Tufnell Park tube station to the east and Kentish Town tube station to the south-east. Hampstead Heath Park is located approximately 500 meters to the north-west of the site.

Proposed Development

- 1.1 The proposal comprises demolition of existing buildings and the erection of a six storey, plus single storey basement, building accommodating 50 Assisted Living residential apartments with associated communal and support facilities and ancillary cafe, salon and mini gym, together with external amenity spaces, car lift, basement parking, laundry, plant, CCTV, lighting, access, landscaping, infrastructure and other ancillary works.
- 1.2 This report details information gathered from consultation with the design team.

Unit Sampling and Layouts

- 2.5 A sample of units have been selected for the study. This sample represents those units that are deemed most at risk of overheating. This risk was analysed based on the following criteria:
- Those with large glazing areas
 - Those on the topmost floor
 - Those having less shading
 - Those having large, sun-facing windows
 - Those having a single aspect
 - Those with limited opening windows
- 2.6 Based on the above assessment criteria, it has been decided that 24 of the 50 residential units, all communal corridors and all occupied non-domestic areas be assessed.
- 2.7 All plans and elevations have been taken from drawings dated June 2018 received from Barton Willmore.
- 2.8 Images of the simulated building can be found in Appendix A.

GLA Requirements and CIBSE TM49: Design Summer Years for London

- 2.9 The GLA (Greater London Authority) requires that the overheating assessment be carried out in accordance with TM49 which advises that weather data should be selected based on an appropriate level of risk and probability for the building which can be established through informed discussion between the design team, client and the other stakeholders involved in the project.
- 2.10 The GLA goes on to state that overheating modelling should be conducted using three design weather years. These weather years are as follows:
- DSY1 - 1976: a year with a prolonged period of sustained warmth
 - DSY2 - 1989: a moderately warm summer (current design year for London)
 - DSY3 - 2003: a year with a very intense single warm spell

GLA Requirements and CIBSE TM52: The limits of thermal comfort: avoiding overheating in European buildings

- 2.11 The GLA also recommends that CIBSE TM52 is considered when completing an overheating assessment.
- 2.12 TM52, released in July 2013, sets out to identify the many different factors that affect thermal comfort and uses these to define a new set of criteria for measuring unacceptable levels of overheating. Until the release of TM52, the standard approach was to use CIBSE Guide A, which was based on not exceeding a single limiting temperature:
- 25°C for >5% of occupied hours
 - 28°C for >1% of occupied hours
- 2.13 TM52 uses an adaptive approach for building occupant comfort. The adaptive approach to thermal comfort is based on the findings of field surveys in workplaces and other building types. It is now accepted as the standard approach to specifying target temperatures in non-air conditioned buildings where indoor conditions are less easy to control.
- 2.14 TM52 uses three criteria to predict whether a building will over-heat. Two out of three criteria must be met in order for a building to be deemed as not overheating. The three criteria are:
- Threshold temperature exceeded $\nless 3\%$ of occupied hours per year
 - Daily weighted exceedance (degree hours) $\nless 6$
 - Temperature \nless upper limit

CIBSE TM59: Design methodology for the assessment of overheating risk in homes

- 2.15 In April 2017, CIBSE released TM59 which defines a peer reviewed methodology for the assessment of overheating risk in residential developments.
- 2.16 Whilst not currently stipulated in any legislation, it is suggested by CIBSE that this methodology be used to ensure a standardised approach to model generation and reporting for the assessment of overheating. The method suggested somewhat differs from the previous approach in that it specified many of the inputs used to perform the analysis, whereas previously, these inputs have been based on the design team's assumptions of how the building is likely to be used. The methodology has been proven on a number of case study projects in London and is thought to give a better overall picture of the comfort that can be expected within a residential development.
- 2.17 The Greater London Authority is currently in discussion with CIBSE and other industry professionals to officially make TM59 part of The London Plan.

Overheating Criteria

- 2.18 In accordance with TM59, all domestic spaces (Kitchens, Living rooms, Bedrooms, Bathrooms, and Halls) will be included in the assessment. Bathrooms and halls do not however have to pass any criteria to be compliant but are still included in the assessment.
- 2.19 The criteria for TM59 are as follows:
- For living rooms, kitchens and bedrooms: the number of hours during which ΔT is greater than or equal to one degree (K) during the period May to September inclusive shall not be more than 3% of occupied hours. This is CIBSE TM52 Criterion 1.
 - For bedrooms only: The operative temperature in the bedroom from 22:00 – 07:00 shall not exceed 26°C for more than 1% of annual hours (i.e. 33 hours and over is a failure).
- 2.20 TM59 also requires that where an operative temperature of 28°C occurs within a corridor for more than 3% of total annual hours, this should be flagged as a significant risk. If any such occurrences exist, these will be flagged in Section 3 of this report.
- 2.21 Hallways are any private domestic area from which other rooms are accessed. Corridors are any public areas from which apartments are accessed.
- 2.22 The non-domestic spaces within the development will be assessed against TM52. As mentioned in Section 2.11 – 2.14, TM52 has three criteria, two of which must be passed to reach compliance:
- Criterion 1: Hours of Exceedance
 - The number of hours during which ΔT is greater than or equal to one degree (K) during the period May to September inclusive shall not be more than 3% of occupied hours.
 - Criterion 2: Daily Weighted Exceedance
 - The weighted exceedance shall be less than or equal to 6 in any one day. This criteria deals with the severity of overheating within any one day and is a function of both magnitude and duration.
 - Criterion 3: Upper Limit Temperature
 - The value of ΔT shall not exceed 4K. This criteria sets an absolute limit for the indoor operative temperature.

Construction Elements and Thermal Mass

- 2.23 All construction elements/materials in the model have been created according to information agreed with Barton Willmore and the design team. Appendix B contains information about each of the elements/materials used within the model. The following U-Values have been used:

Building Element/Characteristic	Proposed values
Exterior walls and ground contact walls in basement - U value (W/m ² K)	0.18
Walls to unheated spaces (W/m ² K)	0.18
Floor over unheated spaces and ground floor	0.12
Flat Roof - U value (W/m ² K)	0.12
Windows - U value (W/m ² K)	1.3
Doors to unheated areas - U value (W/m ² K)	1.0
Design Air Permeability(m ³ /hr/m ² @50Pa)	4
Thermal Bridges	ACDs where available

Table 1: Construction Element Information

- 2.24 Thermal mass calculations have also been included in the model as they are automatically calculated by IES VE. The thermal mass is incorporated into the construction on the basis of the elements/materials information detailed in Appendix B.

Ventilation Strategy

- 2.25 Details of the ventilation strategy modelled, window opening assumptions, infiltration rates assumed and any mechanical supply/extract rates can be found in Appendices C and D.
- 2.26 In accordance with TM59, openable windows have been modelled as open when both the internal dry-bulb temperature exceeds 22°C and the space is occupied.

Weather files and Thermal Comfort Category

- 2.27 In accordance with TM59, the weather file selected is that of a DSY1 file that is most appropriate for the site location for the 2020s time period assuming a high emissions scenario. The file selected is: London_LHR_DSY1_2020High50.epw.
- 2.28 In addition to the use of the file above, and in accordance with the GLA, the following files will also be used:
- 1976 London Heathrow Airport (for intermediate urban locations);
 - 1989 London Heathrow Airport (for intermediate urban locations);
 - 2003 London Heathrow Airport (for intermediate urban locations);
- 2.29 The Ingestre Road development is located outside the 'CAZ and other high density urban areas' category and the weather files used in the assessment are therefore located around the London Heathrow Airport.

-
- 2.30 The thermal comfort category defined for this project is: Category II, as defined by TM52 Table 2.
- 2.31 The summer (elevated) air speed ms^{-1} for the calculation of TM52 used in this report is 0.10.

Occupancy and Gain Profiles

- 2.32 All occupancy and gain profiles for domestic spaces have been modelled according to TM59. The occupancy density for café, hairdressers and mini gym have been given by the architect, and internal gains for the non-domestic areas included in the model have been taken from CIBSE Guide A: Environmental Design and are summarized in Appendix C.

Exposure type

- 2.33 The model has been set up to 'semi-exposed wall' type for the purposes of determining wind pressure coefficient as per IES VE guidance.

3.0 RESULTS OF THE SIMULATION

- 3.1 The performance of the assessed domestic spaces and communal corridors against the relevant criteria can be found below.

TM59 Bedrooms Compliance

- 3.2 As stated previously, for bedrooms to comply with TM59 they should not exceed 26°C for more than 1% of annual occupied hours between 22:00 and 07:00.
- 3.3 Results of the TM59 compliance check against the four weather files stated in Section 2.23 and 2.24 can be found in Appendix E In summary:

- No spaces fail under DSY1.
- No spaces fail under DSY2.
- No spaces fail under DSY3.
- No spaces fail under DSY1 2020High50.

TM59 Corridor Checks

- 3.4 As stated previously, corridors are not required to comply with any specific criteria but a space should be flagged where an operative temperature of 28°C occurs for more than 3% of total annual hours.
- 3.5 Results of the TM59 check against the four weather files stated in Section 2.23 and 2.24 can be found in Appendix F. In summary:

- No spaces fail under DSY1.
- No spaces fail under DSY2.
- No spaces fail under DSY3.
- No spaces fail under DSY1 2020High50.

TM59 (TM52 Criterion 1) Kitchen, Living rooms, Bedrooms Compliance

DSY1 Compliance

- 3.6 As stated previously, Kitchens, Living Rooms and Bedroom must pass TM52 criterion 1 under TM59 when checked against the four weather files stated in Section 2.23 and 2.24.
- 3.7 Results of the compliance check against DSY1 can be found in Appendix G. In summary:
- All assessed domestic areas pass.

DSY2 Compliance

3.8 Results of the compliance check against the DSY2 weather file appropriate to the site, as stated in Section 2.23 and 2.24 can be found in Appendix H. In summary:

- All assessed domestic areas pass.

DSY3 Compliance

3.9 Results of the compliance check against the DSY2 weather file appropriate to the site, as stated in Section 2.23 and 2.24 can be found in Appendix H. In summary:

- All assessed domestic areas pass.

DSY1 2020High50 Compliance

3.10 Results of the compliance check against the DSY3 weather file appropriate to the site, as stated in Section 2.23 and 2.24 can be found in Appendix H. In summary:

- All assessed domestic areas pass.

3.11 All domestic spaces (Kitchens, Living rooms, Bedrooms, Bathrooms, and Halls) have been included in the assessment. However, in accordance with TM59, bathrooms and halls do not have to pass any criteria to be compliant.

TM52 Compliance for non-domestic areas

3.12 As stated previously, for the non-domestic occupied space to comply with TM52, it should pass two of the three criteria.

3.13 Results of the TM52 compliance check against the four weather files stated in Section 2.25 and 2.26/7 can be found in Appendices G, H, I, J. In summary:

- Under DSY1:

Room Name	Room ID	Occupied days (%)	Criterion 1 (%Hrs Top-Tmax>=1K)	Criterion 2 (Max. Daily Deg.Hrs)	Criterion 3 (Max. DeltaT)	Criteria failing
Hairdressers	GF000000	85.6	4.7	12	3	1 & 2
Commercial kitchen	GF00000E	100	39.7	65	7	1 & 2 & 3
Cafe	GF000001	100	7	30	5	1 & 2 & 3

- Under DSY2:

Room Name	Room ID	Occupied days (%)	Criterion 1 (%Hrs Top-Tmax>=1K)	Criterion 2 (Max. Daily Deg.Hrs)	Criterion 3 (Max. DeltaT)	Criteria failing
Classes	BS000009	100	3.5	37	6	1 & 2 & 3
Hairdressers	GF000000	85.6	5.5	41	7	1 & 2 & 3
Commercial kitchen	GF00000E	100	40.8	87	9	1 & 2 & 3
Staff office	KT000002	100	3.2	34	3	1 & 2
Cafe	GF000001	100	7	66	8	1 & 2 & 3
Reception	RC000000	100	1.5	31	5	2 & 3
Hobby room 1 1st floor	GF00002F	100	3.4	41	7	1 & 2 & 3
Hobby room2 1st floor	RC000007	100	3.2	39	6	1 & 2 & 3

- Under DSY3:

Room Name	Room ID	Occupied days (%)	Criterion 1 (%Hrs Top-Tmax>=1K)	Criterion 2 (Max. Daily Deg.Hrs)	Criterion 3 (Max. DeltaT)	Criteria failing
Gym	BS000003	100	3.4	21	3	1 & 2
Classes	BS000009	100	5.9	26	4	1 & 2
Hairdressers	GF000000	85.6	8.8	27	5	1 & 2 & 3
Commercial kitchen	GF00000E	100	40.4	76	8	1 & 2 & 3
Staff office	KT000002	100	6.2	32	2	1 & 2
Cafe	GF000001	100	9.8	50	6	1 & 2 & 3
Hobby room1 1st floor	GF00002F	100	5.3	29	5	1 & 2 & 3
Hobby room2 1st floor	RC000007	100	5	26	4	1 & 2

- Under DSY1 2020High50:

Room Name	Room ID	Occupied days (%)	Criterion 1 (%Hrs Top-Tmax>=1K)	Criterion 2 (Max. Daily Deg.Hrs)	Criterion 3 (Max. DeltaT)	Criteria failing
Classes	BS000009	100	3.9	25	4	1 & 2
Hairdressers	GF000000	85.6	5.6	29	5	1 & 2 & 3
Commercial kitchen	GF00000E	100	49.3	79	8	1 & 2 & 3
Staff office	KT000002	100	3.3	29	2	1 & 2
GF Cafe	GF000001	100	9.8	58	7	1 & 2 & 3
Hobby room1 1st floor	GF00002F	100	3.5	26	4	1 & 2

- 3.14 A review has been conducted of these spaces to understand the root cause of overheating within the spaces.
- 3.15 It has been determined that internal gains from equipment, lighting and auxiliary ventilation are responsible for these spaces overheating. Please refer to the graphs below for visual representation of the gains and temperatures within the spaces on the days identified to have the highest dry bulb internal temperature.

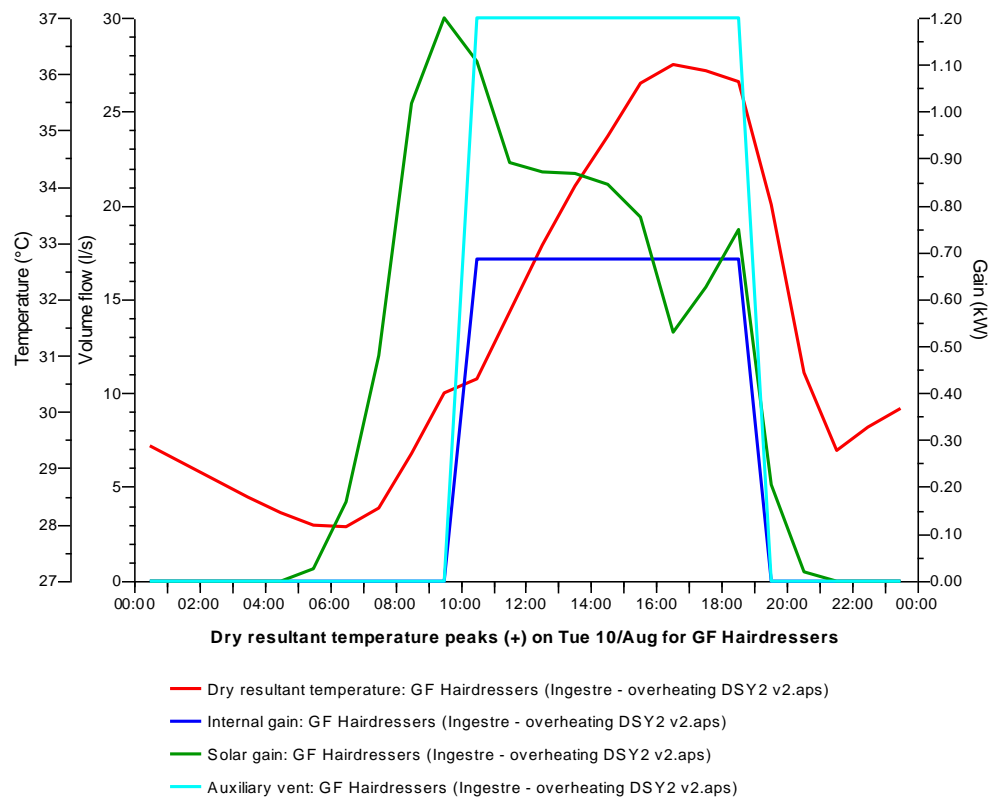


Figure 3.1: Internal gains Hairdresser's salon – DSY2 (DSY1, DSY3 and DSY2020H50 similar for peak dry resultant temperatures)

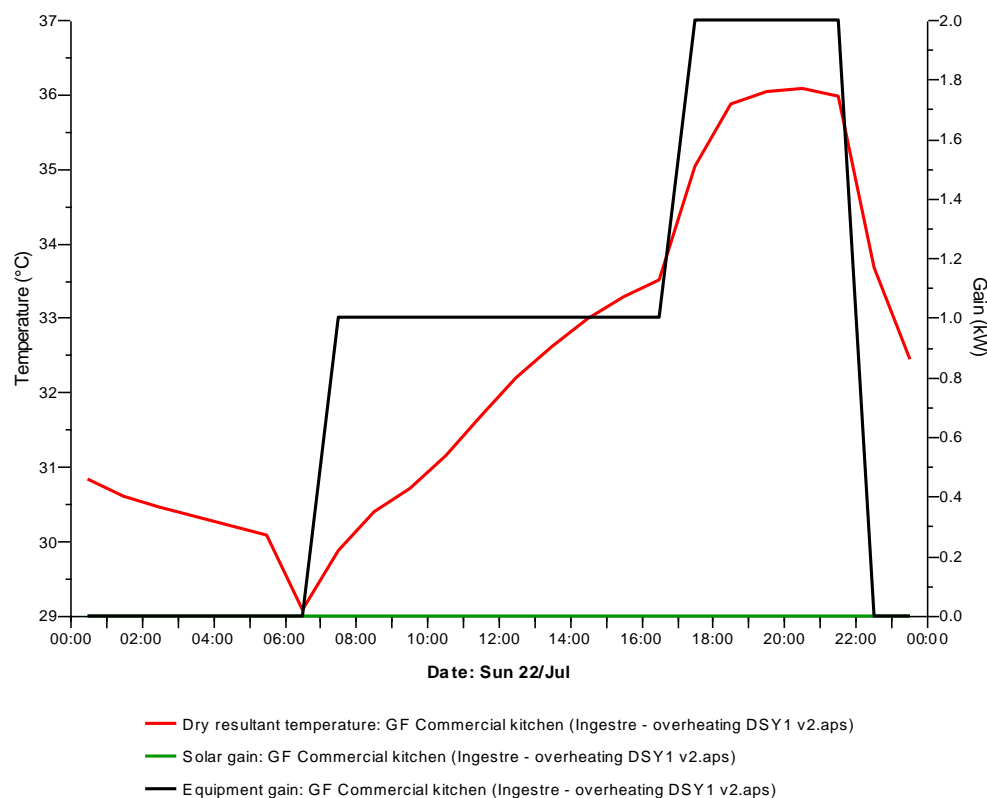


Figure 3.2: Internal gains in commercial kitchen DSY1 (DSY2, DSY3, DSY2020H50 similar for days with peak dry resultant temperature)

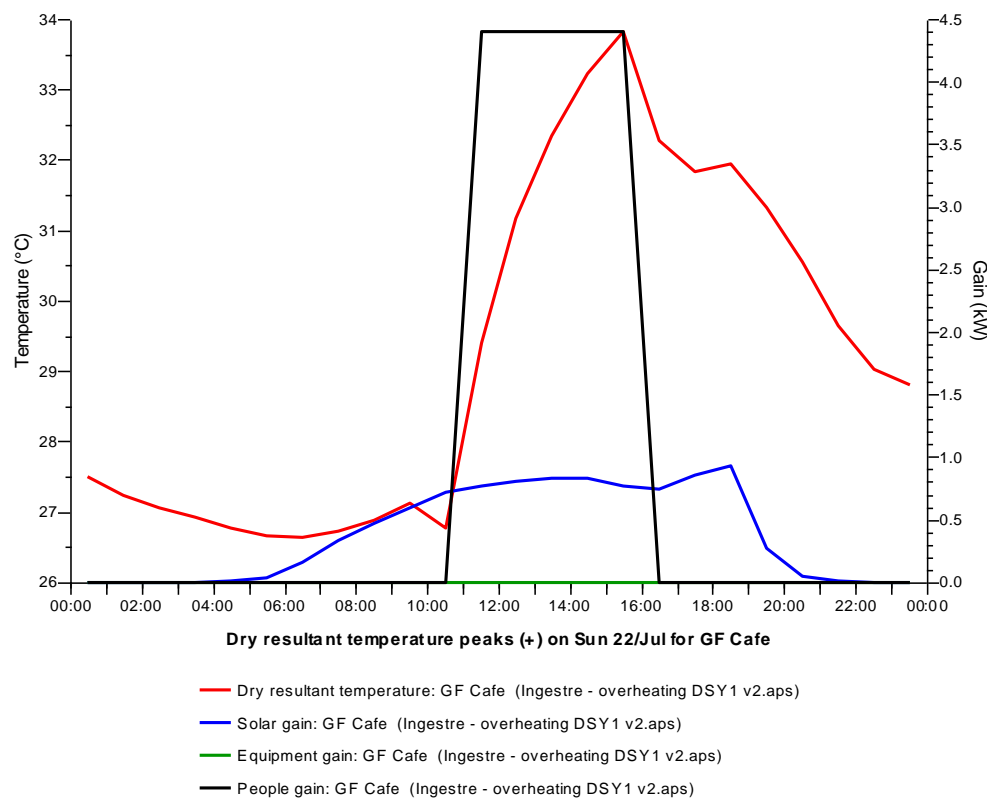


Figure 3.3: Internal gains in Cafe – DSY1 (DSY2, DSY3, DSY2020H50 similar for days with peak dry resultant temperature)

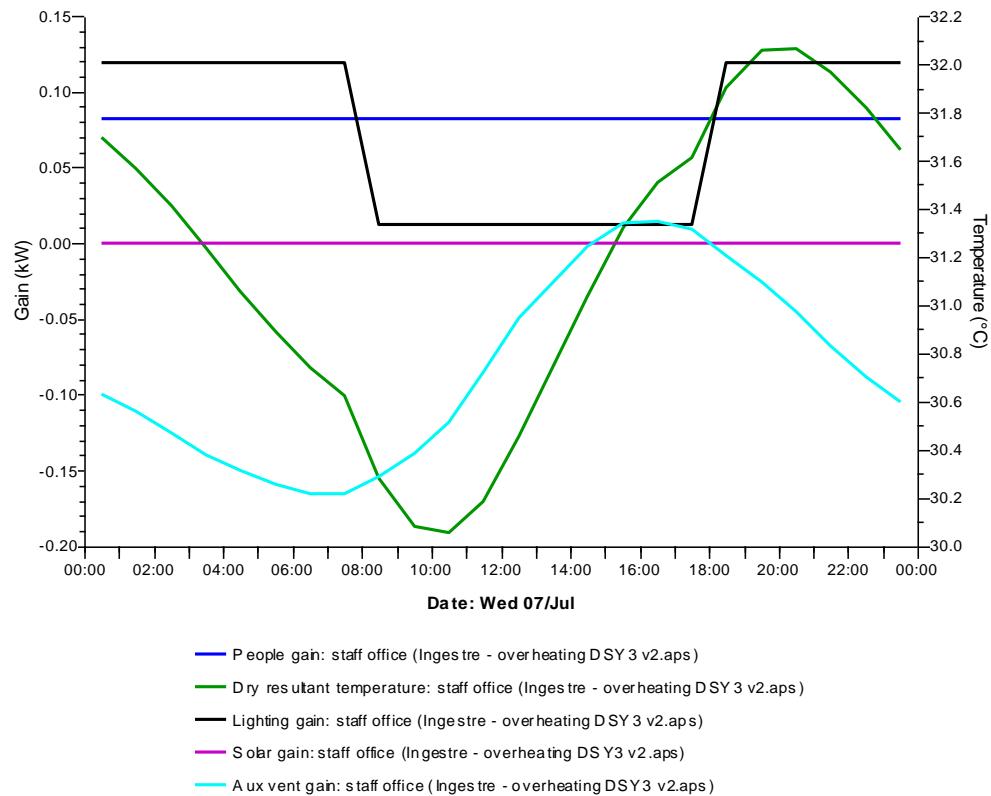


Figure 3.4: Internal gains in staff office – DSY2 (DSY3 and DSY2020H50 similar for days with peak dry resultant temperature)

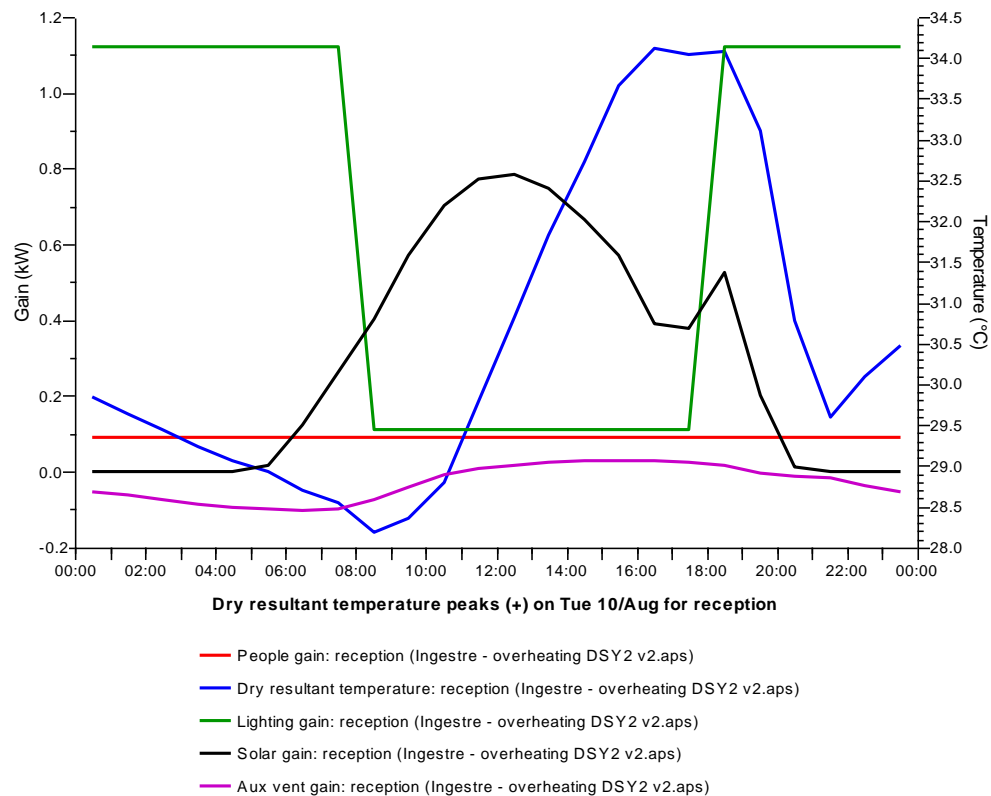


Figure 3.5: Internal gains in reception– DSY2 (DSY3 and DSY2020H50 similar for days with peak dry resultant temperature)

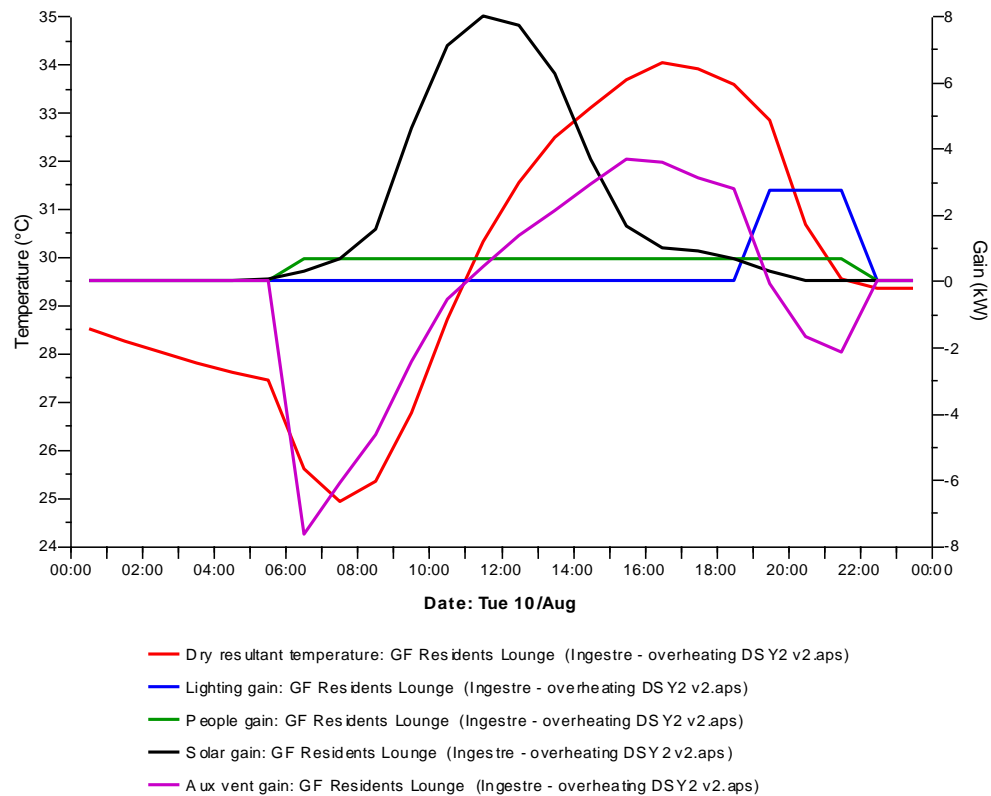


Figure 3.6: Internal gains in lounge – DSY2

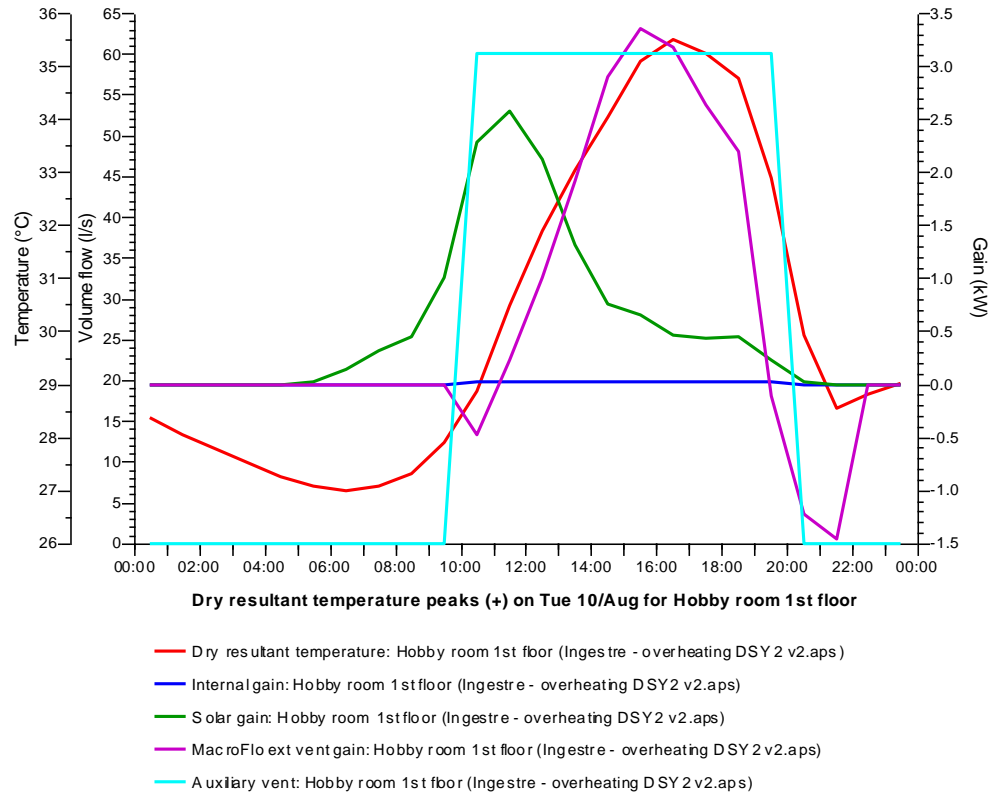


Figure 3.7: Internal gains in hobby room – DSY2 (DSY3 and DSY2020H50 similar for days with peak dry resultant temperature)

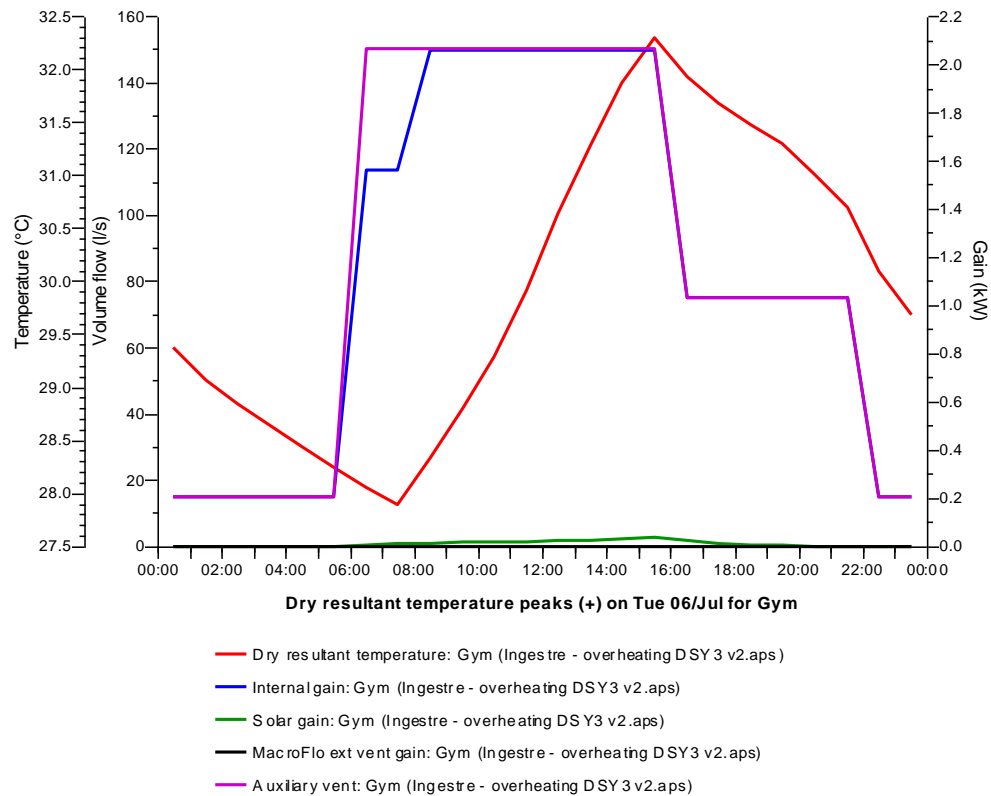


Figure 3.8: Internal gains in gym – DSY3

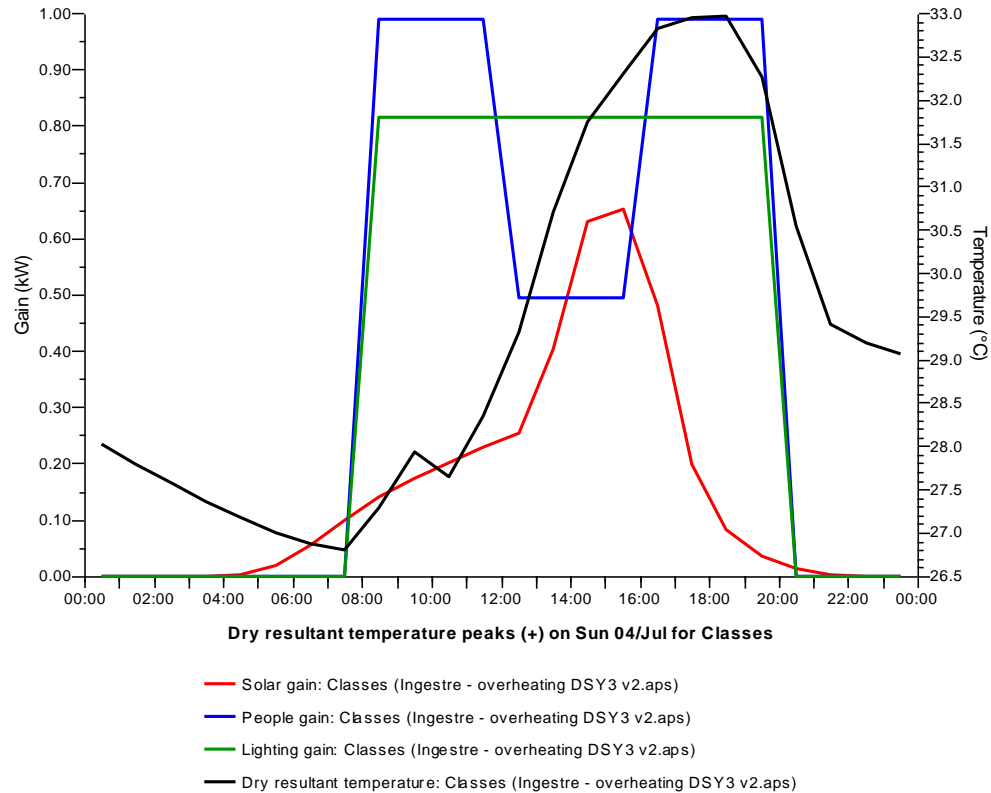


Figure 3.9: Internal gains in fitness classes –DSY3 (DSY2 and DSY2020H50 similar for days with peak dry resultant temperature)

- 3.16 The assumptions made for internal gains and window openings profiles have resulted in the non-domestic spaces exceeding the internal comfort criteria. It has been confirmed that solar gains are not causing overheating in the failing spaces and therefore passive measures to reduce solar gains will have minimal effect on the size of overheating. Consequently, it is recommended that a comfort cooling system is installed within these spaces to ensure the risk of overheating is minimised to acceptable levels.
- 3.17 The proposed M&E design includes comfort cooling units for all non-domestic, frequently occupied, spaces to meet the cooling demand of these rooms.
- 3.18 It can be concluded that, with the application of feasible passive solar shading features within the development design (external shading in form of balconies and perforated brick walls) and with the use of some comfort cooling systems in the non-domestic areas, the principles of the London Plan Cooling Hierarchy have been followed.

4.0 BREEAM HEA 04 THERMAL COMFORT ASSESSMENT

Assessment Criteria

4.1 Hea 04 Thermal Comfort is split into three different credits. These are 'Thermal Modelling', 'Adaptability – for a projected climate change scenario', and 'Thermal zoning and controls'. The last of these three credits has not been attempted and will not be referred to in this report.

4.2 Credit One is excerpted below:

1. Thermal modelling has been carried out using software in accordance with CIBSE AM11 Building Energy and Environmental Modelling.
2. The software used to carry out the simulation at the detailed design stage provides full dynamic thermal analysis. For smaller and more basic building designs with less complex heating or cooling system... n/a
3. The modelling demonstrates that:
 - a. For air conditioned buildings, summer and winter operative temperature ranges in accordance with the criteria set out in CIBSE Guide A Environmental Design, Table 1.5, or other appropriate industry standard (where this sets a higher or more appropriate requirement/level for the building type).
 - b. For naturally ventilated/free running buildings: n/a
4. n/a
5. For air conditioned buildings, the PMV (predicted mean vote) and PPD (predicted percentage of dissatisfied) indices based on the above modelling are reported via the BREEAM assessment scoring and reporting tool.

4.3 Credit Two is excerpted below:

6. Criteria 1 to 4 are achieved.
7. The thermal modelling demonstrates that the relevant requirements set out in criterion 3 are achieved for a projected climate change environment.
8. Where thermal comfort criteria are not met for the projected climate change environment, the project team demonstrates how the building has been adapted, or designed to be easily adapted in the future using passive design solutions in order to subsequently meet the requirements under criterion 7.
9. For air conditioned buildings, the PMV and PPD indices based on the above modelling are reported via the BREEAM assessment scoring and reporting tool.

4.4 For the purposes of this report the criteria set out in CIBSE TM52: The limits of thermal comfort: avoiding overheating in European buildings have been used in place of the limits set out in CIBSE Guide A. TM52 sets out a more thorough and dynamic test of thermal comfort as detailed below.

- 4.5 TM52, released in July 2013, sets out to identify the many different factors that affect thermal comfort and uses these to define a new set of criteria for measuring unacceptable levels of overheating. Until the release of TM52, the standard approach was to use CIBSE Guide A, which was based on not exceeding a single limiting temperature:
- 25°C for >5% of occupied hours
 - 28°C for >1% of occupied hours
- 4.6 TM52 uses an adaptive approach for building occupant comfort. The adaptive approach to thermal comfort is based on the findings of field surveys in workplaces and other building types. It is now accepted as the standard approach to specifying target temperatures in non-air conditioned buildings where indoor conditions are less easy to control.
- 4.7 TM52 uses three criteria to predict whether a building will over-heat. Two out of three criteria must be met in order for a building to be deemed as not overheating. The three criteria are:
- Threshold temperature exceeded $\nless 3\%$ of occupied hours per year
 - Daily weighted exceedance (degree hours) $\nless 6$
 - Temperature \nless upper limit
- 4.8 The simulation was carried out for the building with non-domestic spaces provided with the proposed comfort cooling operating to the assumed profile.

Results of the Simulation

- 4.9 These results have been generated based on the information above and the TM52 check performed within the VistaPro module of IES VE. Any deviation from the parameters stated may result in a change in the development's performance.
- 4.10 The following data has been used with the VistaPro module for the TM52 check:

Setting	Value	Sub-value
Clothing Level	Male/Office/Light	0.7
Activity Level	Sedentary work, standing	69.8
Nominal design air speed (ms^{-1})	0.15	n/a
Building Category	Category II	New Builds
Summer (elevated) air speed (ms^{-1})	0.8	n/a

One credit – Thermal modelling

- 4.11 The output of the TM52 check for the first weather file, LondonDSY05, is reported In Appendix K. In summary, all spaces pass at least two of the three criteria required by the TM52 calculations methodology.

One credit – Adaptability – for a projected climate change scenario

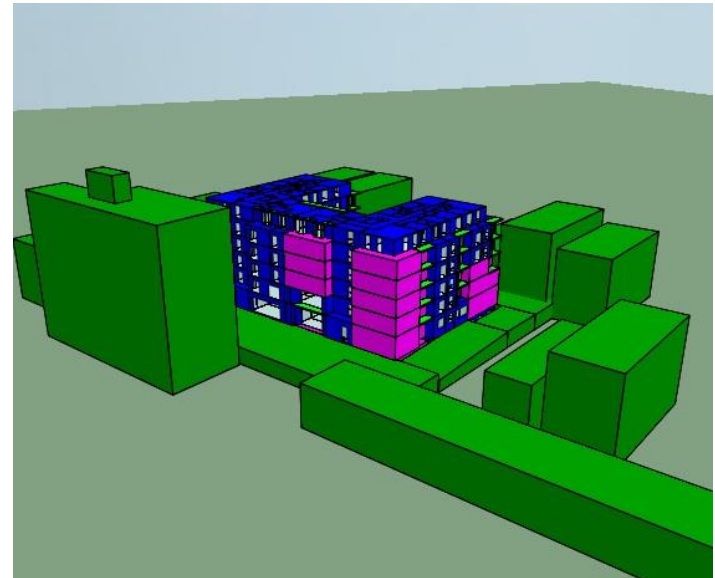
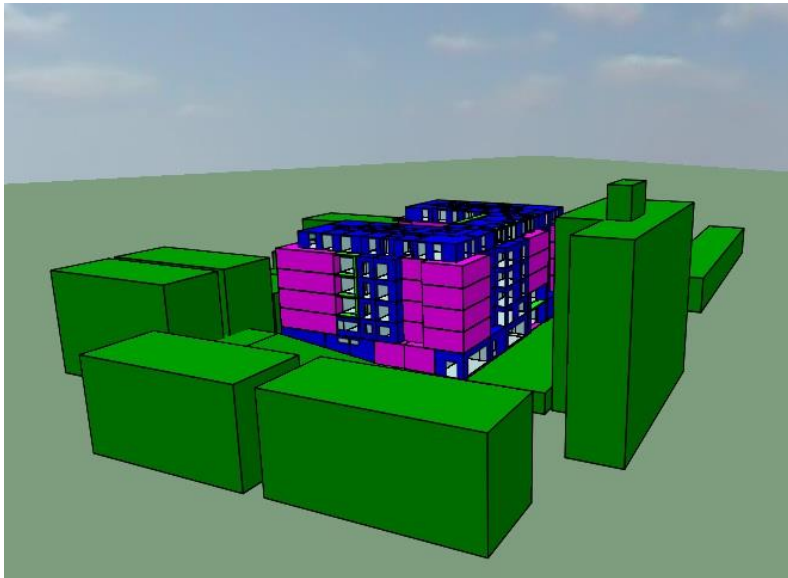
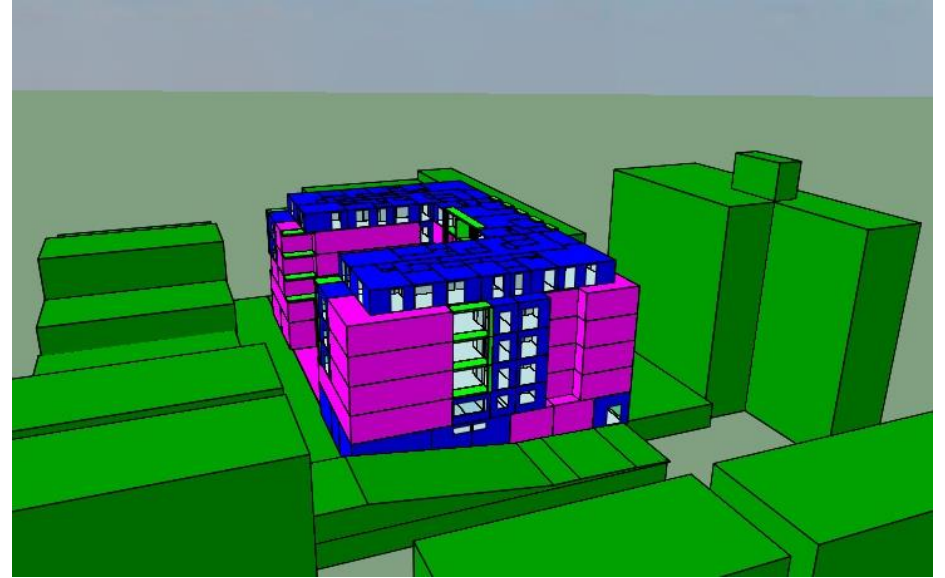
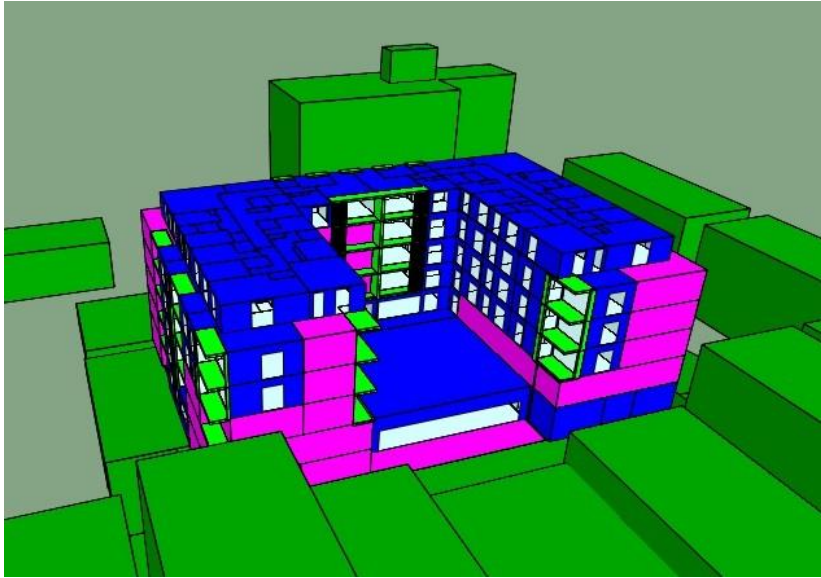
- 4.12 The output of the TM52 check for the first weather file, LondonDSY2020H, is reported in Appendix L. In summary, all spaces pass at least two of the three criteria required by the TM52 calculations methodology.

5.0 DISCLAIMER

- 5.1 Create Consulting Engineers Ltd disclaims any responsibility to the Client and others in respect of any matters outside the scope of this report.
- 5.2 This modelling activity and report has been written based on a number of assumptions which are detailed in the main body of the report and the associated appendices. This data is assumed to be correct at the time of writing and every effort has been made to ensure this is the case. If however, any of this data is found to be incorrect, the results and recommendations contained therein may no longer hold true.
- 5.3 The copyright of this report is vested in Create Consulting Engineers Ltd and Four Quarters (Ingestre Road) Ltd. The Client, or his appointed representatives, may copy the report for purposes in connection with the development described herein. It shall not be copied by any other party or used for any other purposes without the written consent of Create Consulting Engineers Ltd or Four Quarters (Ingestre Road) Ltd.
- 5.4 Create Consulting Engineers Ltd accepts no responsibility whatsoever to other parties to whom this report, or any part thereof, is made known. Any such other parties rely upon the report at their own risk.


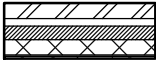
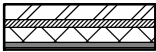
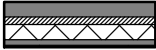




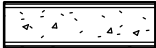

APPENDICES

APPENDIX A

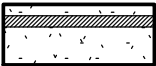
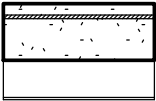
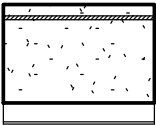
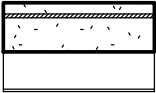


APPENDIX B

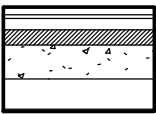
WALL SPECIFICATION

	<p>External Wall Type A - Target U value: 0.18W/m²K</p> <p>450mm Diameter contiguous piles 150mm Insulation/Lining system</p>
	<p>External Wall Type B Facing Brickwork - U value: 0.18W/m²K</p> <p>102.5mm Brickwork 50mm Cavity 100mm Partial fill rigid insulation (EcoTherm Eco-Cavity or similar) 100mm Concrete Block 35mm Wall liner system 12.5mm Plasterboard</p>
	<p>External Wall Type C Recessed Brick Panel</p> <p>102.5mm Brickwork 50mm Full fill rigid insulation 100mm Concrete Block 35mm Wall liner system 12.5mm Plasterboard</p>
	<p>External Wall Type D - Target U value: 0.18W/m²K</p> <p>100mm Cladding/Support structure zone 50mm Full fill rigid insulation 100mm Concrete Block 35mm Wall liner system 12.5mm Plasterboard</p>
	<p>External Wall Type E - Target U value: n/a</p> <p>Perforated Brick Screen</p> <p>102.5mm Hit and Miss Brickwork</p>
	<p>Internal Wall Type F</p> <p>12.5mm Plasterboard 22.5mm Wall liner system 30mm 2no Sheets Soundshield Board 140mm Stud with mineral wool insulation between studs 30mm 2no Sheets Soundshield Board 22.5mm Wall liner system 12.5mm Plasterboard</p>
	<p>Internal Wall Type G</p> <p>12.5mm Plasterboard 75mm Stud with mineral wool insulation between studs 12.5mm Plasterboard</p>
	<p>Internal Wall Type H</p> <p>12.5mm Plasterboard 125mm Stud / Concrete Block - TBA 12.5mm Plasterboard</p>
	<p>Internal Wall Type I</p> <p>12.5mm Plasterboard 22.5mm Wall liner system 230mm Structural Zone - Size TBA with Structural Engineer 22.5mm Wall liner system 12.5mm Plasterboard</p>
	<p>Internal Wall Type J</p> <p>12.5mm Plasterboard 22.5mm Wall liner system 330mm Structural Zone - Size TBA with Structural Engineer 22.5mm Wall liner system 12.5mm Plasterboard</p>

FLOOR SPECIFICATION

	<p>Floor Type A - Target U value: 0.12W/m²K</p> <p>Basement Floor</p> <p>75mm Screed 75mm Insulation 250mm Reinforced Concrete Slab</p>
	<p>Floor Type B Ground Floor</p> <p>75mm Screed 25mm Insulation 275mm Reinforced Concrete Slab 235mm Void 15mm Plasterboard</p>
	<p>Floor Type C First Floor</p> <p>75mm Screed 25mm Insulation 550mm Reinforced Concrete Slab 235mm Void 15mm Plasterboard</p>
	<p>Floor Type D Typical Upper Floor</p> <p>75mm Screed 25mm Insulation 225mm Reinforced Concrete Slab 235mm Void 15mm Plasterboard</p>

ROOF SPECIFICATION

	<p>Roof Type A - Target U value: 0.12W/m²K</p> <p>Blue Roof - Specification TBA with Create Consulting</p> <p>Sedum Drainage Layer Water storage layer - Create to advise on capacity requirements Rigid Insulation Concrete Slab Ceiling Void Plasterboard</p>
---	---

FOR COMMENT

Project
11-12 Ingestre Road, Camden
Assisted Living Development
Drawing Title
Draft Specification

Date	Scale	Drawn by	Check by
19/06/18	1 : 50 @ A3	DC	PN
Project No	Drawing No	Revision	
27463	A-P22-001		

DRAFT

BARTONWILLMORE

Planning • Master Planning & Urban Design • Architecture • Landscape Planning & Design • Environmental Planning • Graphic Communication • Public Engagement • Development Economics

bartonwillmore.co.uk

bst.

ISO 9001 Quality Management

Offices at Birmingham Bristol Cambridge Cardiff Ebbsfleet Edinburgh Glasgow Leeds London Manchester Newcastle Reading Southampton

APPENDIX C

Occupancy & Gain Profiles

N.B. Occupancy/Gain profiles based on architect's and M&E notes, CIBSE Guide A figures and assumptions

N.B. Occupancy/Gain profiles are not required for residential spaces as these are prescribed by TM59

Space Type/Name	Bar/lounge				
Gain Type/Name	People		Gain Type/Name	Lighting	
Sensible Gain	98	W/Person	Sensible Gain	10	W/m^2
Latent Gain	44	W/Person	Variation Profile	06:00 - 22:00	
Number of people	n/a	Number			
Occupancy Density	2	m^2/person			
Variation Profile	06:00 - 22:00				

Space Type/Name	Café				
Gain Type/Name	People		Gain Type/Name	Lighting	
Sensible Gain	90	W/Person	Sensible Gain	10	W/m^2
Latent Gain	36	W/Person	Variation Profile	as occupancy	
Number of people	n/a	Number			
Occupancy Density	2	m^2/person			
Variation Profile	08:00 - 18:00 Mon-Sat; 11:00 - 16:00 Sun and Bank Hol				

Space Type/Name	Commercial kitchen				
Gain Type/Name	People		Gain Type/Name	Lighting	
Sensible Gain	132	W/Person	Sensible Gain	10	W/m^2
Latent Gain	117	W/Person	Variation Profile	as occupancy	
Number of people	n/a	Number			
Occupancy Density	2	m^2/person			
Variation Profile	06:00 - 22:00				

Space Type/Name	Fitness Studio				
Gain Type/Name	People		Gain Type/Name	Lighting	
Sensible Gain	132	W/Person	Sensible Gain	10	W/m^2
Latent Gain	117	W/Person	Variation Profile	as occupancy	
Number of people	15	Number			
Occupancy Density	n/a	m^2/person			
Variation Profile	08:00 - 20:00				

Space Type/Name	Gym				
Gain Type/Name	People		Gain Type/Name	Lighting	
Sensible Gain	132	W/Person	Sensible Gain	10	W/m^2
Latent Gain	117	W/Person	Variation Profile	as occupancy	
Number of people	n/a	Number			
Occupancy Density	15	m^2/person			
Variation Profile	06:00 - 22:00 (90%) 22:00-06:00 (10%)				

Space Type/Name	Hairdresser				
Gain Type/Name	People		Gain Type/Name	Lighting	
Sensible Gain	98	W/Person	Sensible Gain	10	W/m^2
Latent Gain	44	W/Person	Variation Profile	as occupancy	
Number of people	n/a	Number			
Occupancy Density	3	m^2/person			
Variation Profile	10:00 - 19:00 Mon-Sat; closed Sun and				

Space Type/Name	Guest accommodation						
Gain Type/Name	People		Gain Type/Name	Lighting	Gain Type/Name	Equipment	
Sensible Gain	82	W/Person	Sensible Gain	10 W/m^2	Sensible Gain	0	W
Latent Gain	23	W/Person	Variation Profile	as occupancy	Latent Gain	0	W
Number of people	1	Number	Choose One		Variation Profile		
Occupancy Density	n/a	m^2/person					
Variation Profile	Fri-Sun 00:00 - 24:00						

Space Type/Name	Laundry						
Gain Type/Name	People		Gain Type/Name	Lighting	Gain Type/Name	Equipment	
Sensible Gain	98	W/Person	Sensible Gain	10 W/m^2	Sensible Gain	0	W
Latent Gain	44	W/Person	Variation Profile	as occupancy	Latent Gain	0	W
Number of people	2	Number	Choose One		Variation Profile		
Occupancy Density	n/a	m^2/person					
Variation Profile	06:00 - 22:00						

Space Type/Name	Reception						
Gain Type/Name	People		Gain Type/Name	Lighting	Gain Type/Name	Equipment	
Sensible Gain	90	W/Person	Sensible Gain	10 W/m^2	Sensible Gain	135	W
Latent Gain	36	W/Person	Variation Profile	as occupancy	Latent Gain	0	W
Number of people	1	Number	Choose One		Variation Profile		
Occupancy Density	n/a	m^2/person					
Variation Profile	00:00 - 24:00						

Space Type/Name	Office						
Gain Type/Name	People		Gain Type/Name	Lighting	Gain Type/Name	Equipment	
Sensible Gain	75	W/Person	Sensible Gain	10 W/m^2	Sensible Gain	135	W
Latent Gain	55	W/Person	Variation Profile	as occupancy	Latent Gain	0	W
Number of people	1	Number	Choose One		Variation Profile		
Occupancy Density	n/a	m^2/person					
Variation Profile	09:00 - 21:00						

Ventilation

Assumed				Assumed			
#	Space Type/Name:	Infiltration rate		Auxiliary Ventilation rate			
				Rate	Variation Profile	Space	
1	Living	0.25	ach				
2	Dining	0.25	ach	30	l/s	Constant	Kitchen
3	Kitchen	0.5	ach	15	l/s	Constant	Bathroom
4	Bathroom	0.5	ach	60	l/s	as occupancy	Commercial kitchen
5	WC	0.5	ach	10	l/s	as occupancy	other non-domestic areas
6	Ensuite	0.5	ach				
7	Bedrooms	0.25	ach				
8	Hallways	0.25	ach				
9	Communal corridor	0.25	ach				
10	Cupboards	0.25	ach				
11	Non-domestic spaces	0.5	ach				

*or 0.3l/(sm^2) in line with AD Part F

Other Internal gains

Heat losses from pipework, heat interface units (HIUs) and trace heating should be detailed below (if present).

These heat losses should take into account heating pipework distribution gains on the communal side of the HIU (calculated in accordance with guidance in CIBSE Guide C) as well as losses from the HIU itself.

The default values (per meter of pipework) listed below will be used if calculations cannot be provided at this time. These are based on the Domestic Building Services Compliance Guide.

Within any given apartment, standing gains should be based on primary side (domestic hot water) pipework length up to the HIU in accordance with guidance in CIBSE Guide C. Standing gains from the HIU should be based on manufacturers' recommendations.

Outside diameter of pipe (mm)	Maximum heat loss per metre run of pipe (W/m)
8	7.06
10	7.23
12	7.35
15	7.89
22	9.12
28	10.07
35	11.08
42	12.19
54	14.14

Assumed

Per flat
42mm flow and return pipes in corridors
HIU heat losses 250W

Assumed

pipe length in each corridor 32.7m

APPENDIX D



1 East Elevation
1:100

BW Sketch
19/06/18



2 West Elevation
1:100



FOR COMMENT

Project:
11-12 Ingestre Road, Camden
Assisted Living Development
Elevations
Date: 05/06/18 Scale: As indicated @ A0 Drawn by: DC Check by: PN
Project No: 27463 Drawing No: A-P13-02 Revision: A

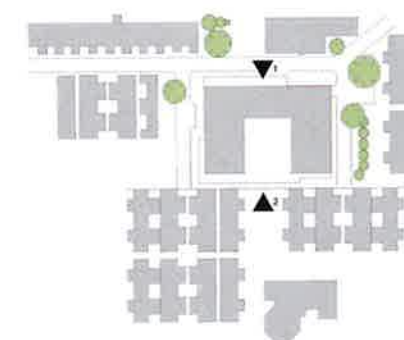


1 South Elevation
1 : 100



2 North Elevation
1 : 100

BW Sketch
19/06/18.



FOR COMMENT

Project:
11-12 Ingestre Road, Camden
Assisted Living Development
Drawing Title:
Elevations

Date	Scale	Drawn by	Check by
05/06/18	As indicated @ A0	DC	PN
Project No 27463	Drawing No A-P13-01	Revision A	

DRAFT **BARTON WILLMORE**
Planning • Master Planning & Urban Design •
Architecture • Landscape Planning & Design • Environmental
Planning • Graphics Communication • Public Engagement • Research
bartonwillmore.co.uk

0m 2m 4m 6m 8m 10m
VISUAL SCALE 1:100 @ A0



1 Courtyard East Elevation
1:100



2 Courtyard West Elevation
1:100

BW Sketch
17/06/18



FOR COMMENT

Project:
11-12 Ingestre Road, Camden
Assisted Living Development
Drawing Title:
Elevations
Date:
05/06/18
Project No:
27463
Scale:
As indicated @ A0
Drawing No:
A-P13-03
Drawn by:
DC
Check by:
PN
Revision:
A

DRAFT **BARTON WILLMORE**
Planning • Master Planning & Urban Design •
Architecture • Landscape Planning & Design • Environmental
Planning • Creative Communication • Public Engagement • Research
bartonwillmore.co.uk

0m 2m 4m 6m 8m 10m
VISUAL SCALE 1:100 @ A0

Operable Windows

Assumed/Info given		
Openable area	Based on window geometry received from architect	
Max angle opening	90 for side hung door and window	°
	45 for top hung windows	°
	sliding windows in winter garden 50% operable area	°
Crack length	Based on window geometry received from architects	% of opening perimeter
Variation profile	When space is occupied and internal dry bulb temperature exceeds 22°C	

APPENDIX E

TM59 - BEDROOMS CHECK

[illegible]

APPENDIX F

TM59 - CORRIDORS CHECK

Corridors check - TM59	DSY1	DSY2	DSY3	DSY1 2020H50
	Dry resultant temperature (°C) - % hours in range			
Location	> 28.00	> 28.00	> 28.00	> 28.00
Staircase	1	1.7	2.8	2
Staircase	1	1.7	2.8	2
Access corridor	0.2	0.6	1.3	0.5
Access corridor	0.4	1	1.6	0.8
Access corridor	21	21.8	19.5	26.9
GF staircase	1	1.7	2.8	2
GF staircase	0.9	1.7	2.8	1.9
staircase	1	1.7	3	2
staircase	1	1.7	2.9	1.9
staircase (1)	1.1	1.8	3.1	2.1
staircase (1)	1	1.8	2.9	2
riser	0	0.5	0.7	0
cupboard in access corridor	0.5	1.6	2.8	1.3
Access corridor	0.5	1.2	1.8	0.9
Laundry store - cupboard	0	0	0	0
GF access corridor	0.1	0.5	0.9	0.4
GF access corridor	0.1	0.4	0.8	0.3
access corridor	0.1	0.5	1.2	0.5
access corridor	0.2	0.6	1.2	0.5
access corridor (1)	0.2	0.7	1.4	0.5
access corridor (1)	0.2	0.7	1.4	0.5
staircase (1) (1)	1.1	2	3.2	2.2
staircase (1) (2)	1.2	2.1	3.4	2.5
staircase (1) (1)	1.1	1.8	3.2	2.1
staircase (1) (2)	1.2	2	3.3	2.3
access corridor (1) (1)	0.3	0.7	1.5	0.5
access corridor (1) (2)	0.3	0.8	1.7	0.6
access corridor (1) (1)	0.3	0.7	1.5	0.5
access corridor (1) (2)	0.3	0.8	1.6	0.5
5th floor staircase	1.6	2.4	4	3.1
5th floor access corridor	0.3	0.9	1.8	0.7
5th floor staircase	1.4	2.3	3.7	3
5th floor access corridor	0.1	0.4	0.6	0.3
corridor	1.1	2	3.1	2.5
Total hours (% of sum)	1.2	1.8	2.7	2.1

APPENDIX G

TM52 DSY1

Overall

Passed: 154 rooms:
Failed: 3 rooms:
Unoccupied: 141 rooms:

Data:

Building category: Category II (new builds.)
Days data= 365 01-Jan 31-Dec
Days (summer)= 153 01-May 30-Sep
Data OK? OK Full summer

Occupancy:

Note: This report assesses occupied periods only. Please be aware that TM52 should be conducted for occupied and/or “available” periods only. Use of educational NCM profiles may be seen as inappropriate due to prolonged unoccupied periods during summer months. See Section 6.1.2 (a) of TM52 for further information.

Passed: 154 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Gym	BS000003	100	0.8	16	2	2
Classes	BS000009	100	2.3	20	4	2
GF Guest accomm.	GF00000B	43.1	0.6	7	1	2
GF Guest Accom	GF00000C	43.1	0.8	12	2	2
GF Staff facilities	GF00000D	100	0	0	0	-
staff office	KT000002	100	1.1	13	1	2
Toilet & changing rooms	TL000000	100	0	0	0	-
Toilet & changing rooms	BS000011	100	0	0	0	-
Toilet & changing rooms	TL000001	100	0	0	0	-
changing/shower	CR000002	100	0	0	0	-
Changing rooms	CH000001	100	0	0	0	-
Changing rooms	CH000002	100	0	0	0	-
Laundry store	BS000005	100	0	0	0	-
Toilet	LN000001	100	0	0	0	-
GF hobby rooms	GF000010	100	0	0	0	-
GF hobby rooms	GF00001C	100	0	0	0	-
toilet to reception	RC000002	100	0	0	0	-
toilet to cafe	RC000004	100	0	0	0	-
toilet to cafe	RC000001	100	0	0	0	-
reception	RC000000	100	0.5	15	3	2
Hobby room 1st floor	GF00002F	100	1.8	21	4	2
Hobby room 1st floor	RC000007	100	1.4	19	4	2
kitchen/living 4P	GF00002B	100	0	0	0	-
Bedroom 2P	GF000026	100	0	0	0	-
Bedroom 2P	GF00002D	100	0	0	0	-
Bath 2P	GF000024	100	0	0	0	-
Bath 2P	GF000030	100	0	0	0	-
Bath 2P	GF000020	100	0	0	0	-
Bath 2P	GF000021	100	0	0	0	-
Bedroom 2P	GF00000F	100	0	0	0	-
Bedroom 2P	GF00001D	100	0	0	0	-
kitchen/living 4P	GF00001F	100	0	0	0	-
kitchen/living 4P	GF00003F	100	0	0	0	-
Bedroom 2P	GF00003D	100	0	0	0	-
Bedroom 2P	GF000042	100	0	0	0	-
Bath 2P	GF000041	100	0	0	0	-
Bath 2P	GF000040	100	0	0	0	-
kitchen/living 4P (1)	KT000001	100	0	0	0	-
Bedroom 2P	BD000000	100	0	0	0	-
Bedroom 2P	BD000001	100	0	0	0	-
Bath 2P (1)	BT000000	100	0	0	0	-
Bath 2P (1)	BT000001	100	0	0	0	-
kitchen/living 4P (1)	KT000003	100	0	0	0	-
Bedroom 2P	BD000002	100	0	0	0	-
Bedroom 2P	BD000003	100	0	0	0	-
Bath 2P (1)	BT000002	100	0	0	0	-
Bath 2P (1)	BT000003	100	0	0	0	-
Bedroom 2B	1S000016	100	0	0	0	-
Bath 2P	1S00000D	100	0	0	0	-
Bath 3P	1S000014	100	0.2	4	1	-
Bedroom 2P	1S00000F	100	0	0	0	-
Bedroom 1P	1S000010	100	0	0	0	-
kitchen/living 5P	1S000012	100	0	0	0	-
Bedroom 2P	HB000000	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Bathroom 2P	HB000003	100	0	0	0	-
Bedroom 2P	HB000004	100	0	0	0	-
Bathroom 2P	HB000007	100	0	0	0	-
kitchen/living 4P	HB000005	100	0	0	0	-
Laundry store	LN000002	100	0	0	0	-
GF Residents Lounge - no nat light	GF000008	100	0.5	4	2	-
GF toilets to lounge	GF000007	100	0	0	0	-
GF toilets to lounge	GF000013	100	0	0	0	-
GF toilets to lounge	GF000019	100	0	0	0	-
GF toilets to lounge	GF00001A	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000004	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000007	100	0	0	0	-
Bedroom 2P	BD000004	100	0	0	0	-
Bedroom 2P	BD000005	100	0	0	0	-
Bedroom 2P	BD000006	100	0	0	0	-
Bedroom 2P	BD000007	100	0	0	0	-
Bath 2P (1) (1)	BT000004	100	0	0	0	-
Bath 2P (1) (2)	BT000005	100	0	0	0	-
Bath 2P (1) (1)	BT000006	100	0	0	0	-
Bath 2P (1) (2)	BT000007	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000008	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000009	100	0	0	0	-
Bedroom 2P	BD000008	100	0	0	0	-
Bedroom 2P	BD000009	100	0	0	0	-
Bedroom 2P	BD00000A	100	0	0	0	-
Bedroom 2P	BD00000B	100	0	0	0	-
Bath 2P (1) (1)	BT000008	100	0	0	0	-
Bath 2P (1) (2)	BT000009	100	0	0	0	-
Bath 2P (1) (1)	BT00000A	100	0	0	0	-
Bath 2P (1) (2)	BT00000B	100	0	0	0	-
Bedroom 2B	BD00000C	100	0	0	0	-
Bedroom 2B	BD00000D	100	0	0	0	-
Bath 2P (1)	BT00000C	100	0	0	0	-
Bath 2P (2)	BT00000D	100	0	0	0	-
Bath 3P (1)	BT00000E	100	0.2	4	1	-
Bath 3P (2)	BT00000F	100	0.1	2	1	-
Bedroom 2P	BD00000E	100	0	0	0	-
Bedroom 2P	BD00000F	100	0	0	0	-
Bedroom 1P	BD000010	100	0	0	0	-
Bedroom 1P	BD000011	100	0	0	0	-
kitchen/living 5P (1)	KT00000A	100	0	0	0	-
kitchen/living 5P (2)	KT00000B	100	0	0	0	-
Bedroom 2P	BD000012	100	0	0	0	-
Bedroom 2P	BD000013	100	0	0	0	-
Bathroom 2P	BT000010	100	0	0	0	-
Bathroom 2P	BT000011	100	0	0	0	-
Bedroom 2P	BD000014	100	0	0	0	-
Bedroom 2P	BD000015	100	0	0	0	-
Bathroom 2P (1)	BT000012	100	0	0	0	-
Bathroom 2P (2)	BT000013	100	0	0	0	-
kitchen/living 4P (1)	KT00000C	100	0	0	0	-
kitchen/living 4P (2)	KT00000D	100	0	0	0	-
kitchen/living 4P	5T000002	100	0	0	0	-
Bedroom 2P	5T000020	100	0	0	0	-
Bedroom 2P	5T000021	100	0	0	0	-
Bathroom 4P	5T000022	100	0	0	0	-
Bedroom 2P	5T000003	100	0	0	0	-
kitchen/living 4P	5T000024	100	0	0	0	-
Bedroom 2P	5T000025	100	0	0	0	-
Bathroom 4P	5T000026	100	0	0	0	-
kitchen/living 4P	5T000008	100	0	0	0	-
Bedroom 2P	5T000009	100	0	0	0	-
Bedroom 2P	5T000006	100	0	0	0	-
Bathroom 2P	5T00000A	100	0	0	0	-
Kitchen/living 4P	5T00000D	100	0	0	0	-
Bedroom 2P	5T00000E	100	0	0	0	-
Bathroom 2P	5T00000F	100	0.6	14	3	2
Bedroom 2P	5T000001	100	0	0	0	-
Bathroom 2P	5T000013	100	0	0	0	-
Bedroom 2P	5T000016	100	0	0	0	-
Bathroom 2P	5T000017	100	0	0	0	-
Bathroom 2P	5T000018	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Bedroom 2P	5T000015	100	0	0	0	-
kitchen/living 4P	5T000005	100	0	0	0	-
kitchen/living 4P	5T000044	100	0	0	0	-
Bedroom 2P	5T000042	100	0	0	0	-
Bedroom 2P	5T000000	100	0	0	0	-
Bathroom 2P	5T000040	100	0	0	0	-
Bathroom 2P	5T000041	100	0	0	0	-
kitchen/living 4P	5T000039	100	0	0	0	-
Bedroom 2P	5T00003D	100	0	0	0	-
Bedroom 2P	5T00003A	100	0	0	0	-
Bathroom 2P	5T000036	100	0	0	0	-
Bathroom 2P	5T00003B	100	0	0	0	-
kitchen/living 4P	5T000030	100	0	0	0	-
Bedroom 2P	5T00002F	100	0	0	0	-
Bathroom 2P	5T000033	100	0.5	8	2	2
Bedroom 2P	5T000035	100	0	0	0	-
Bathroom 2P	5T000031	100	0	0	0	-
Bathroom 2P	5T00000C	100	0	0	0	-
kitchen/living 4P	2N00000C	100	0	0	0	-
Bedroom 2P	2N000010	100	0	0	0	-
Bedroom 2P	2N000011	100	0	0	0	-
Bathroom 2P	2N00000F	100	0	0	0	-
Bathroom 2P	2N00000E	100	0	0	0	-
Bathroom 2P	2N00000D	100	0	0	0	-
Bathroom 2P	2N000014	100	0	0	0	-
Bedroom 2P	2N000015	100	0	0	0	-
Bedroom 2P	2N000016	100	0	0	0	-
kitchen/living 4P	2N000006	100	0	0	0	-

Failed: **3 rooms:**

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
GF Hairdressers	GF000000	85.6	4.7	12	3	1 & 2
GF Commercial kitchen	GF00000E	100	39.7	65	7	1 & 2 & 3
GF Cafe	GF000001	100	7	30	5	1 & 2 & 3

Unoccupied: **141 rooms:**

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Staircase	BS000004	0	0	0	0	-
Staircase	BS00000F	0	0	0	0	-
Access corridor	BS00000D	0	0	0	0	-
GF Bar store	GF000009	0	0	0	0	-
Kitchen store	KT000000	0	0	0	0	-
Access corridor	CC000001	0	0	0	0	-
Access corridor	BS000000	0	0	0	0	-
store room	RC000003	0	0	0	0	-
corridor to toilets	RC000005	0	0	0	0	-
store to reception	RC000006	0	0	0	0	-
GF staircase	GF000011	0	0	0	0	-
GF staircase	GF000003	0	0	0	0	-
GF staircase	GF000005	0	0	0	0	-
GF staircase	GF000006	0	0	0	0	-
staircase	GF000031	0	0	0	0	-
staircase	GF000034	0	0	0	0	-
Cupboard	GF000029	0	0	0	0	-
Hallway	GF000027	0	0	0	0	-
Hallway	GF000023	0	0	0	0	-
cupboard	GF000014	0	0	0	0	-
winter garden	GF00001E	0	0	0	0	-
hallway	GF000043	0	0	0	0	-
cupboard	GF00003C	0	0	0	0	-
staircase (1)	ST000000	0	0	0	0	-
staircase (1)	ST000001	0	0	0	0	-
Cupboard (1)	CP000000	0	0	0	0	-
Hallway (1)	HL000000	0	0	0	0	-
hallway (1)	HL000001	0	0	0	0	-
cupboard (1)	CP000001	0	0	0	0	-
cupboard	1S000013	0	0	0	0	-
hallway	1S000015	0	0	0	0	-
cupboard	1S000011	0	0	0	0	-
cupboard	HB000006	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
hallway	HB000001	0	0	0	0	-
cupboard	HB000008	0	0	0	0	-
riser	CC000008	0	0	0	0	-
cupboard in access corridor	CC000009	0	0	0	0	-
Access corridor	CC00000A	0	0	0	0	-
Laundry store - cupboard	LN000000	0	0	0	0	-
Elevator shaft	CC000002	0	0	0	0	-
Elevator shaft	LV000000	0	0	0	0	-
GF lift shaft	GF00001B	0	0	0	0	-
GF lift shaft	GF000032	0	0	0	0	-
GF access corridor	GF000002	0	0	0	0	-
GF riser	GF000033	0	0	0	0	-
GF lift shaft	GF000035	0	0	0	0	-
GF lift shaft	GF000036	0	0	0	0	-
GF access corridor	GF000015	0	0	0	0	-
GF riser	GF000037	0	0	0	0	-
access corridor	GF00002A	0	0	0	0	-
riser	CC00000C	0	0	0	0	-
lift shaft	CC00000B	0	0	0	0	-
lift shaft	CC00000D	0	0	0	0	-
lift shaft	CC00000E	0	0	0	0	-
lift shaft	CC00000F	0	0	0	0	-
access corridor	GF00002C	0	0	0	0	-
riser	CC000010	0	0	0	0	-
lift shaft	CC000011	0	0	0	0	-
lift shaft	CC000012	0	0	0	0	-
access corridor (1)	CC000006	0	0	0	0	-
riser	CC000013	0	0	0	0	-
lift shaft	CC000014	0	0	0	0	-
lift shaft	CC000015	0	0	0	0	-
access corridor (1)	CC000004	0	0	0	0	-
riser	CC000016	0	0	0	0	-
staircase (1) (1)	ST000002	0	0	0	0	-
staircase (1) (2)	ST000003	0	0	0	0	-
staircase (1) (1)	ST000004	0	0	0	0	-
staircase (1) (2)	ST000005	0	0	0	0	-
Cupboard (1) (1)	CP000002	0	0	0	0	-
Cupboard (1) (2)	CP000003	0	0	0	0	-
Hallway (1) (1)	HL000002	0	0	0	0	-
Hallway (1) (2)	HL000003	0	0	0	0	-
hallway (1) (1)	HL000004	0	0	0	0	-
hallway (1) (2)	HL000005	0	0	0	0	-
cupboard (1) (1)	CP000004	0	0	0	0	-
cupboard (1) (2)	CP000005	0	0	0	0	-
cupboard (1)	CP000006	0	0	0	0	-
cupboard (2)	CP000007	0	0	0	0	-
hallway (1)	HL000006	0	0	0	0	-
hallway (2)	HL000007	0	0	0	0	-
cupboard (1)	CP000008	0	0	0	0	-
cupboard (2)	CP000009	0	0	0	0	-
cupboard (1)	CP00000A	0	0	0	0	-
cupboard (2)	CP00000B	0	0	0	0	-
hallway (1)	HL000008	0	0	0	0	-
hallway (2)	HL000009	0	0	0	0	-
cupboard (1)	CP00000C	0	0	0	0	-
cupboard (2)	CP00000D	0	0	0	0	-
lift shaft (1)	LF000000	0	0	0	0	-
lift shaft (2)	LF000001	0	0	0	0	-
lift shaft (1)	LF000002	0	0	0	0	-
lift shaft (2)	LF000003	0	0	0	0	-
access corridor (1) (1)	CC00001B	0	0	0	0	-
access corridor (1) (2)	CC00001C	0	0	0	0	-
riser (1)	RS000000	0	0	0	0	-
riser (2)	RS000001	0	0	0	0	-
lift shaft (1)	LF000004	0	0	0	0	-
lift shaft (2)	LF000005	0	0	0	0	-
lift shaft (1)	LF000006	0	0	0	0	-
lift shaft (2)	LF000007	0	0	0	0	-
access corridor (1) (1)	CC00001D	0	0	0	0	-
access corridor (1) (2)	CC00001E	0	0	0	0	-
riser (1)	RS000002	0	0	0	0	-
riser (2)	RS000003	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
lift shaft	5T00001B	0	0	0	0	-
lift shaft	5T00001C	0	0	0	0	-
riser	5T00001D	0	0	0	0	-
cupboard	5T00001E	0	0	0	0	-
hallway	5T000023	0	0	0	0	-
cupboard	5T000027	0	0	0	0	-
hallway	5T000028	0	0	0	0	-
5th floor staircase	5T00001F	0	0	0	0	-
5th floor access corridor	5T000004	0	0	0	0	-
5th floor staircase	5T00002A	0	0	0	0	-
lift shaft	5T00002C	0	0	0	0	-
lift shaft	5T00002D	0	0	0	0	-
5th floor access corridor	5T00002B	0	0	0	0	-
riser	5T00002E	0	0	0	0	-
cupboard	5T000007	0	0	0	0	-
hallway	5T00000B	0	0	0	0	-
cupboard	5T000010	0	0	0	0	-
corridor	5T000012	0	0	0	0	-
cupboard	5T000011	0	0	0	0	-
cupboard	5T000019	0	0	0	0	-
hallway	5T00001A	0	0	0	0	-
cupboard	5T000014	0	0	0	0	-
cupboard	5T000043	0	0	0	0	-
hallway	5T00003E	0	0	0	0	-
cupboard	5T00003F	0	0	0	0	-
cupboard	5T000038	0	0	0	0	-
cupboard	5T000037	0	0	0	0	-
hallway	5T00003C	0	0	0	0	-
hallway	5T000034	0	0	0	0	-
cupboard	5T000032	0	0	0	0	-
cupboard	2N000012	0	0	0	0	-
access corridor (1) (1)	CC00001F	0	0	0	0	-
cupboard	2N000017	0	0	0	0	-
hallway	2N000018	0	0	0	0	-
winter garden	WN000000	0	0	0	0	-
corridor	TL000003	0	0	0	0	-

e hours”.

hs.

APPENDIX H

TM52 DSY2

Overall

Passed: 147 rooms:
Failed: 10 rooms:
Unoccupied: 141 rooms:

Data:

Building category: Category II (new builds.)
Days data= 365 01-Jan 31-Dec
Days (summer)= 153 01-May 30-Sep
Data OK? OK Full summer

Occupancy:

Note: This report assesses occupied periods only. Please be aware that TM52 should be conducted for occupied and/or “available hours”.
Use of educational NCM profiles may be seen as inappropriate due to prolonged unoccupied periods during summer months.
See Section 6.1.2 (a) of TM52 for further information.

Passed: 147 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Gym	BS000003	100	2	32	4	2
GF Guest accomm.	GF00000B	42.5	0.4	6	1	-
GF Guest Accom	GF00000C	42.5	0.4	11	2	2
GF Staff facilities	GF00000D	100	1	9	1	2
Toilet & changing rooms	TL000000	100	0	0	0	-
Toilet & changing rooms	BS000011	100	0	0	0	-
Toilet & changing rooms	TL000001	100	0	0	0	-
changing/shower	CR000002	100	0	0	0	-
Changing rooms	CH000001	100	0	1	1	-
Changing rooms	CH000002	100	0	0	0	-
Laundry store	BS000005	100	0	0	0	-
Toilet	LN000001	100	0.2	4	1	-
GF hobby rooms	GF000010	100	0.3	5	1	-
GF hobby rooms	GF00001C	100	0.4	9	2	2
toilet to reception	RC000002	100	0.2	4	1	-
toilet to cafe	RC000004	100	0.9	12	2	2
toilet to cafe	RC000001	100	0.6	11	2	2
kitchen/living 4P	GF00002B	100	0	0	0	-
Bedroom 2P	GF000026	100	0	0	0	-
Bedroom 2P	GF00002D	100	0	0	0	-
Bath 2P	GF000024	100	0	0	0	-
Bath 2P	GF000030	100	0	0	0	-
Bath 2P	GF000020	100	0	0	0	-
Bath 2P	GF000021	100	0	0	0	-
Bedroom 2P	GF00000F	100	0	0	0	-
Bedroom 2P	GF00001D	100	0	0	0	-
kitchen/living 4P	GF00001F	100	0	0	0	-
kitchen/living 4P	GF00003F	100	0	0	0	-
Bedroom 2P	GF00003D	100	0	0	0	-
Bedroom 2P	GF000042	100	0	0	0	-
Bath 2P	GF000041	100	0	0	0	-
Bath 2P	GF000040	100	0	0	0	-
kitchen/living 4P (1)	KT000001	100	0	0	0	-
Bedroom 2P	BD000000	100	0	0	0	-
Bedroom 2P	BD000001	100	0	0	0	-
Bath 2P (1)	BT000000	100	0	0	0	-
Bath 2P (1)	BT000001	100	0	0	0	-
kitchen/living 4P (1)	KT000003	100	0	0	0	-
Bedroom 2P	BD000002	100	0	0	0	-
Bedroom 2P	BD000003	100	0	0	0	-
Bath 2P (1)	BT000002	100	0	0	0	-
Bath 2P (1)	BT000003	100	0	0	0	-
Bedroom 2B	1S000016	100	0	0	0	-
Bath 2P	1S00000D	100	0	0	0	-
Bath 3P	1S000014	100	0.2	24	4	2
Bedroom 2P	1S00000F	100	0	0	0	-
Bedroom 1P	1S000010	100	0	0	0	-
kitchen/living 5P	1S000012	100	0	0	0	-
Bedroom 2P	HB000000	100	0	0	0	-
Bathroom 2P	HB000003	100	0	0	0	-
Bedroom 2P	HB000004	100	0	0	0	-
Bathroom 2P	HB000007	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
kitchen/living 4P	HB000005	100	0	0	0	-
Laundry store	LN000002	100	0	0	0	-
GF toilets to lounge	GF000007	100	0	0	0	-
GF toilets to lounge	GF000013	100	0	0	0	-
GF toilets to lounge	GF000019	100	0	0	0	-
GF toilets to lounge	GF00001A	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000004	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000007	100	0	0	0	-
Bedroom 2P	BD000004	100	0	0	0	-
Bedroom 2P	BD000005	100	0	0	0	-
Bedroom 2P	BD000006	100	0	0	0	-
Bedroom 2P	BD000007	100	0	0	0	-
Bath 2P (1) (1)	BT000004	100	0	0	0	-
Bath 2P (1) (2)	BT000005	100	0	0	0	-
Bath 2P (1) (1)	BT000006	100	0	0	0	-
Bath 2P (1) (2)	BT000007	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000008	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000009	100	0	0	0	-
Bedroom 2P	BD000008	100	0	0	0	-
Bedroom 2P	BD000009	100	0	0	0	-
Bedroom 2P	BD00000A	100	0	0	0	-
Bedroom 2P	BD00000B	100	0	0	0	-
Bath 2P (1) (1)	BT000008	100	0	0	0	-
Bath 2P (1) (2)	BT000009	100	0	0	0	-
Bath 2P (1) (1)	BT00000A	100	0	0	0	-
Bath 2P (1) (2)	BT00000B	100	0	0	0	-
Bedroom 2B	BD00000C	100	0	0	0	-
Bedroom 2B	BD00000D	100	0	0	0	-
Bath 2P (1)	BT00000C	100	0	0	0	-
Bath 2P (2)	BT00000D	100	0	0	0	-
Bath 3P (1)	BT00000E	100	0.5	8	2	2
Bath 3P (2)	BT00000F	100	0.2	14	3	2
Bedroom 2P	BD00000E	100	0	0	0	-
Bedroom 2P	BD00000F	100	0	0	0	-
Bedroom 1P	BD000010	100	0	0	0	-
Bedroom 1P	BD000011	100	0	0	0	-
kitchen/living 5P (1)	KT00000A	100	0	0	0	-
kitchen/living 5P (2)	KT00000B	100	0	0	0	-
Bedroom 2P	BD000012	100	0	0	0	-
Bedroom 2P	BD000013	100	0	0	0	-
Bathroom 2P	BT000010	100	0	0	0	-
Bathroom 2P	BT000011	100	0	0	0	-
Bedroom 2P	BD000014	100	0	0	0	-
Bedroom 2P	BD000015	100	0	0	0	-
Bathroom 2P (1)	BT000012	100	0	0	0	-
Bathroom 2P (2)	BT000013	100	0	0	0	-
kitchen/living 4P (1)	KT00000C	100	0	0	0	-
kitchen/living 4P (2)	KT00000D	100	0	0	0	-
kitchen/living 4P	5T000002	100	0	0	0	-
Bedroom 2P	5T000020	100	0	0	0	-
Bedroom 2P	5T000021	100	0	0	0	-
Bathroom 4P	5T000022	100	0	0	0	-
Bedroom 2P	5T000003	100	0	0	0	-
kitchen/living 4P	5T000024	100	0	0	0	-
Bedroom 2P	5T000025	100	0	0	0	-
Bathroom 4P	5T000026	100	0	0	0	-
kitchen/living 4P	5T000008	100	0	0	0	-
Bedroom 2P	5T000009	100	0	0	0	-
Bedroom 2P	5T000006	100	0	0	0	-
Bathroom 2P	5T00000A	100	0	0	0	-
Kitchen/living 4P	5T00000D	100	0	0	0	-
Bedroom 2P	5T00000E	100	0	0	0	-
Bathroom 2P	5T00000F	100	1	14	3	2
Bedroom 2P	5T000001	100	0	0	0	-
Bathroom 2P	5T000013	100	0	0	0	-
Bedroom 2P	5T000016	100	0	0	0	-
Bathroom 2P	5T000017	100	0	0	0	-
Bathroom 2P	5T000018	100	0.1	2	1	-
Bedroom 2P	5T000015	100	0	0	0	-
kitchen/living 4P	5T000005	100	0	0	0	-
kitchen/living 4P	5T000044	100	0	0	0	-
Bedroom 2P	5T000042	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Bedroom 2P	5T000000	100	0	0	0	-
Bathroom 2P	5T000040	100	0	1	1	-
Bathroom 2P	5T000041	100	0	0	0	-
kitchen/living 4P	5T000039	100	0	0	0	-
Bedroom 2P	5T00003D	100	0	0	0	-
Bedroom 2P	5T00003A	100	0	0	0	-
Bathroom 2P	5T000036	100	0	0	0	-
Bathroom 2P	5T00003B	100	0	0	0	-
kitchen/living 4P	5T000030	100	0	0	0	-
Bedroom 2P	5T00002F	100	0	0	0	-
Bedroom 2P	5T000035	100	0	0	0	-
Bathroom 2P	5T000031	100	0	0	0	-
Bathroom 2P	5T00000C	100	0	0	0	-
kitchen/living 4P	2N00000C	100	0	0	0	-
Bedroom 2P	2N000010	100	0	0	0	-
Bedroom 2P	2N000011	100	0	0	0	-
Bathroom 2P	2N00000F	100	0	0	0	-
Bathroom 2P	2N00000E	100	0	0	0	-
Bathroom 2P	2N00000D	100	0	0	0	-
Bathroom 2P	2N000014	100	0	0	0	-
Bedroom 2P	2N000015	100	0	0	0	-
Bedroom 2P	2N000016	100	0	0	0	-
kitchen/living 4P	2N000006	100	0	0	0	-

Failed: 10 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Classes	BS000009	100	3.5	37	6	1 & 2 & 3
GF Hairdressers	GF000000	85.6	5.5	41	7	1 & 2 & 3
GF Commercial kitchen	GF00000E	100	40.8	87	9	1 & 2 & 3
staff office	KT000002	100	3.2	34	3	1 & 2
GF Cafe	GF000001	100	7	66	8	1 & 2 & 3
reception	RC000000	100	1.5	31	5	2 & 3
Hobby room 1st floor	GF00002F	100	3.4	41	7	1 & 2 & 3
Hobby room 1st floor	RC000007	100	3.2	39	6	1 & 2 & 3
GF Residents Lounge - no nat light	GF000008	100	2.3	33	5	2 & 3
Bathroom 2P	5T000033	100	0.5	31	6	2 & 3

Unoccupied: 141 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Staircase	BS000004	0	0	0	0	-
Staircase	BS00000F	0	0	0	0	-
Access corridor	BS00000D	0	0	0	0	-
GF Bar store	GF000009	0	0	0	0	-
Kitchen store	KT000000	0	0	0	0	-
Access corridor	CC000001	0	0	0	0	-
Access corridor	BS000000	0	0	0	0	-
store room	RC000003	0	0	0	0	-
corridor to toilets	RC000005	0	0	0	0	-
store to reception	RC000006	0	0	0	0	-
GF staircase	GF000011	0	0	0	0	-
GF staircase	GF000003	0	0	0	0	-
GF staircase	GF000005	0	0	0	0	-
GF staircase	GF000006	0	0	0	0	-
staircase	GF000031	0	0	0	0	-
staircase	GF000034	0	0	0	0	-
Cupboard	GF000029	0	0	0	0	-
Hallway	GF000027	0	0	0	0	-
Hallway	GF000023	0	0	0	0	-
cupboard	GF000014	0	0	0	0	-
winter garden	GF00001E	0	0	0	0	-
hallway	GF000043	0	0	0	0	-
cupboard	GF00003C	0	0	0	0	-
staircase (1)	ST000000	0	0	0	0	-
staircase (1)	ST000001	0	0	0	0	-
Cupboard (1)	CP000000	0	0	0	0	-
Hallway (1)	HL000000	0	0	0	0	-
hallway (1)	HL000001	0	0	0	0	-
cupboard (1)	CP000001	0	0	0	0	-
cupboard	1S000013	0	0	0	0	-
hallway	1S000015	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
cupboard	1S000011	0	0	0	0	-
cupboard	HB000006	0	0	0	0	-
hallway	HB000001	0	0	0	0	-
cupboard	HB000008	0	0	0	0	-
riser	CC000008	0	0	0	0	-
cupboard in access corridor	CC000009	0	0	0	0	-
Access corridor	CC00000A	0	0	0	0	-
Laundry store - cupboard	LN000000	0	0	0	0	-
Elevator shaft	CC000002	0	0	0	0	-
Elevator shaft	LV000000	0	0	0	0	-
GF lift shaft	GF00001B	0	0	0	0	-
GF lift shaft	GF000032	0	0	0	0	-
GF access corridor	GF000002	0	0	0	0	-
GF riser	GF000033	0	0	0	0	-
GF lift shaft	GF000035	0	0	0	0	-
GF lift shaft	GF000036	0	0	0	0	-
GF access corridor	GF000015	0	0	0	0	-
GF riser	GF000037	0	0	0	0	-
access corridor	GF00002A	0	0	0	0	-
riser	CC00000C	0	0	0	0	-
lift shaft	CC00000B	0	0	0	0	-
lift shaft	CC00000D	0	0	0	0	-
lift shaft	CC00000E	0	0	0	0	-
lift shaft	CC00000F	0	0	0	0	-
access corridor	GF00002C	0	0	0	0	-
riser	CC000010	0	0	0	0	-
lift shaft	CC000011	0	0	0	0	-
lift shaft	CC000012	0	0	0	0	-
access corridor (1)	CC000006	0	0	0	0	-
riser	CC000013	0	0	0	0	-
lift shaft	CC000014	0	0	0	0	-
lift shaft	CC000015	0	0	0	0	-
access corridor (1)	CC000004	0	0	0	0	-
riser	CC000016	0	0	0	0	-
staircase (1) (1)	ST000002	0	0	0	0	-
staircase (1) (2)	ST000003	0	0	0	0	-
staircase (1) (1)	ST000004	0	0	0	0	-
staircase (1) (2)	ST000005	0	0	0	0	-
Cupboard (1) (1)	CP000002	0	0	0	0	-
Cupboard (1) (2)	CP000003	0	0	0	0	-
Hallway (1) (1)	HL000002	0	0	0	0	-
Hallway (1) (2)	HL000003	0	0	0	0	-
hallway (1) (1)	HL000004	0	0	0	0	-
hallway (1) (2)	HL000005	0	0	0	0	-
cupboard (1) (1)	CP000004	0	0	0	0	-
cupboard (1) (2)	CP000005	0	0	0	0	-
cupboard (1)	CP000006	0	0	0	0	-
cupboard (2)	CP000007	0	0	0	0	-
hallway (1)	HL000006	0	0	0	0	-
hallway (2)	HL000007	0	0	0	0	-
cupboard (1)	CP000008	0	0	0	0	-
cupboard (2)	CP000009	0	0	0	0	-
cupboard (1)	CP00000A	0	0	0	0	-
cupboard (2)	CP00000B	0	0	0	0	-
hallway (1)	HL000008	0	0	0	0	-
hallway (2)	HL000009	0	0	0	0	-
cupboard (1)	CP00000C	0	0	0	0	-
cupboard (2)	CP00000D	0	0	0	0	-
lift shaft (1)	LF000000	0	0	0	0	-
lift shaft (2)	LF000001	0	0	0	0	-
lift shaft (1)	LF000002	0	0	0	0	-
lift shaft (2)	LF000003	0	0	0	0	-
access corridor (1) (1)	CC00001B	0	0	0	0	-
access corridor (1) (2)	CC00001C	0	0	0	0	-
riser (1)	RS000000	0	0	0	0	-
riser (2)	RS000001	0	0	0	0	-
lift shaft (1)	LF000004	0	0	0	0	-
lift shaft (2)	LF000005	0	0	0	0	-
lift shaft (1)	LF000006	0	0	0	0	-
lift shaft (2)	LF000007	0	0	0	0	-
access corridor (1) (1)	CC00001D	0	0	0	0	-
access corridor (1) (2)	CC00001E	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
riser (1)	RS000002	0	0	0	0	-
riser (2)	RS000003	0	0	0	0	-
lift shaft	5T00001B	0	0	0	0	-
lift shaft	5T00001C	0	0	0	0	-
riser	5T00001D	0	0	0	0	-
cupboard	5T00001E	0	0	0	0	-
hallway	5T000023	0	0	0	0	-
cupboard	5T000027	0	0	0	0	-
hallway	5T000028	0	0	0	0	-
5th floor staircase	5T00001F	0	0	0	0	-
5th floor access corridor	5T000004	0	0	0	0	-
5th floor staircase	5T00002A	0	0	0	0	-
lift shaft	5T00002C	0	0	0	0	-
lift shaft	5T00002D	0	0	0	0	-
5th floor access corridor	5T00002B	0	0	0	0	-
riser	5T00002E	0	0	0	0	-
cupboard	5T000007	0	0	0	0	-
hallway	5T00000B	0	0	0	0	-
cupboard	5T000010	0	0	0	0	-
corridor	5T000012	0	0	0	0	-
cupboard	5T000011	0	0	0	0	-
cupboard	5T000019	0	0	0	0	-
hallway	5T00001A	0	0	0	0	-
cupboard	5T000014	0	0	0	0	-
cupboard	5T000043	0	0	0	0	-
hallway	5T00003E	0	0	0	0	-
cupboard	5T00003F	0	0	0	0	-
cupboard	5T000038	0	0	0	0	-
cupboard	5T000037	0	0	0	0	-
hallway	5T00003C	0	0	0	0	-
hallway	5T000034	0	0	0	0	-
cupboard	5T000032	0	0	0	0	-
cupboard	2N000012	0	0	0	0	-
access corridor (1) (1)	CC00001F	0	0	0	0	-
cupboard	2N000017	0	0	0	0	-
hallway	2N000018	0	0	0	0	-
winter garden	WN000000	0	0	0	0	-
corridor	TL000003	0	0	0	0	-

APPENDIX I

TM52 DSY3

Overall

Passed: 148 rooms:
Failed: 9 rooms:
Unoccupied: 141 rooms:

Data:

Building category: Category II (new builds.)
Days data= 365 01-Jan 31-Dec
Days (summer)= 153 01-May 30-Sep
Data OK? OK Full summer

Occupancy:

Note: This report assesses occupied periods only. Please be aware that TM52 should be conducted for occupied and/or “available hours”.
Use of educational NCM profiles may be seen as inappropriate due to prolonged unoccupied periods during summer months.
See Section 6.1.2 (a) of TM52 for further information.

Passed: 148 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
GF Guest accomm.	GF00000B	42.5	1.1	14	2	2
GF Guest Accom	GF00000C	42.5	1.9	19	2	2
GF Staff facilities	GF00000D	100	2.5	14	1	2
Toilet & changing rooms	TL000000	100	0	0	0	-
Toilet & changing rooms	BS000011	100	0	0	0	-
Toilet & changing rooms	TL000001	100	0	0	0	-
changing/shower	CR000002	100	0	0	0	-
Changing rooms	CH000001	100	0	0	0	-
Changing rooms	CH000002	100	0	0	0	-
Laundry store	BS000005	100	0	0	0	-
Toilet	LN000001	100	0	0	0	-
GF hobby rooms	GF000010	100	0	0	0	-
GF hobby rooms	GF00001C	100	0	0	0	-
toilet to reception	RC000002	100	0	0	0	-
toilet to cafe	RC000004	100	0.8	5	1	-
toilet to cafe	RC000001	100	0.7	5	1	-
reception	RC000000	100	2.3	26	3	2
kitchen/living 4P	GF00002B	100	0	0	0	-
Bedroom 2P	GF000026	100	0	0	0	-
Bedroom 2P	GF00002D	100	0	0	0	-
Bath 2P	GF000024	100	0	0	0	-
Bath 2P	GF000030	100	0	0	0	-
Bath 2P	GF000020	100	0	0	0	-
Bath 2P	GF000021	100	0	0	0	-
Bedroom 2P	GF00000F	100	0	0	0	-
Bedroom 2P	GF00001D	100	0	0	0	-
kitchen/living 4P	GF00001F	100	0	0	0	-
kitchen/living 4P	GF00003F	100	0	0	0	-
Bedroom 2P	GF00003D	100	0	0	0	-
Bedroom 2P	GF000042	100	0	0	0	-
Bath 2P	GF000041	100	0	0	0	-
Bath 2P	GF000040	100	0	0	0	-
kitchen/living 4P (1)	KT000001	100	0	0	0	-
Bedroom 2P	BD000000	100	0	0	0	-
Bedroom 2P	BD000001	100	0	0	0	-
Bath 2P (1)	BT000000	100	0	0	0	-
Bath 2P (1)	BT000001	100	0	0	0	-
kitchen/living 4P (1)	KT000003	100	0	0	0	-
Bedroom 2P	BD000002	100	0	0	0	-
Bedroom 2P	BD000003	100	0	0	0	-
Bath 2P (1)	BT000002	100	0	0	0	-
Bath 2P (1)	BT000003	100	0	0	0	-
Bedroom 2B	1S000016	100	0	0	0	-
Bath 2P	1S00000D	100	0	0	0	-
Bath 3P	1S000014	100	0.9	19	4	2
Bedroom 2P	1S00000F	100	0	0	0	-
Bedroom 1P	1S000010	100	0	0	0	-
kitchen/living 5P	1S000012	100	0	0	0	-
Bedroom 2P	HB000000	100	0	0	0	-
Bathroom 2P	HB000003	100	0	0	0	-
Bedroom 2P	HB000004	100	0	0	0	-
Bathroom 2P	HB000007	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
kitchen/living 4P	HB000005	100	0	0	0	-
Laundry store	LN000002	100	0	0	0	-
GF Residents Lounge - no nat light	GF000008	100	2.3	17	3	2
GF toilets to lounge	GF000007	100	0	0	0	-
GF toilets to lounge	GF000013	100	0	0	0	-
GF toilets to lounge	GF000019	100	0	0	0	-
GF toilets to lounge	GF00001A	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000004	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000007	100	0	0	0	-
Bedroom 2P	BD000004	100	0	0	0	-
Bedroom 2P	BD000005	100	0	0	0	-
Bedroom 2P	BD000006	100	0	0	0	-
Bedroom 2P	BD000007	100	0	0	0	-
Bath 2P (1) (1)	BT000004	100	0	0	0	-
Bath 2P (1) (2)	BT000005	100	0	0	0	-
Bath 2P (1) (1)	BT000006	100	0	0	0	-
Bath 2P (1) (2)	BT000007	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000008	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000009	100	0	0	0	-
Bedroom 2P	BD000008	100	0	0	0	-
Bedroom 2P	BD000009	100	0	0	0	-
Bedroom 2P	BD00000A	100	0	0	0	-
Bedroom 2P	BD00000B	100	0	0	0	-
Bath 2P (1) (1)	BT000008	100	0	0	0	-
Bath 2P (1) (2)	BT000009	100	0	0	0	-
Bath 2P (1) (1)	BT00000A	100	0	0	0	-
Bath 2P (1) (2)	BT00000B	100	0	0	0	-
Bedroom 2B	BD00000C	100	0	0	0	-
Bedroom 2B	BD00000D	100	0	0	0	-
Bath 2P (1)	BT00000C	100	0	0	0	-
Bath 2P (2)	BT00000D	100	0	0	0	-
Bath 3P (1)	BT00000E	100	0.6	6	2	-
Bath 3P (2)	BT00000F	100	0.5	10	3	2
Bedroom 2P	BD00000E	100	0	0	0	-
Bedroom 2P	BD00000F	100	0	0	0	-
Bedroom 1P	BD000010	100	0	0	0	-
Bedroom 1P	BD000011	100	0	0	0	-
kitchen/living 5P (1)	KT00000A	100	0	0	0	-
kitchen/living 5P (2)	KT00000B	100	0	0	0	-
Bedroom 2P	BD000012	100	0	0	0	-
Bedroom 2P	BD000013	100	0	0	0	-
Bathroom 2P	BT000010	100	0	0	0	-
Bathroom 2P	BT000011	100	0	0	0	-
Bedroom 2P	BD000014	100	0	0	0	-
Bedroom 2P	BD000015	100	0	0	0	-
Bathroom 2P (1)	BT000012	100	0	0	0	-
Bathroom 2P (2)	BT000013	100	0	0	0	-
kitchen/living 4P (1)	KT00000C	100	0	0	0	-
kitchen/living 4P (2)	KT00000D	100	0	0	0	-
kitchen/living 4P	5T000002	100	0	0	0	-
Bedroom 2P	5T000020	100	0	0	0	-
Bedroom 2P	5T000021	100	0	0	0	-
Bathroom 4P	5T000022	100	0	0	0	-
Bedroom 2P	5T000003	100	0	0	0	-
kitchen/living 4P	5T000024	100	0	0	0	-
Bedroom 2P	5T000025	100	0	0	0	-
Bathroom 4P	5T000026	100	0	0	0	-
kitchen/living 4P	5T000008	100	0	0	0	-
Bedroom 2P	5T000009	100	0	0	0	-
Bedroom 2P	5T000006	100	0	0	0	-
Bathroom 2P	5T00000A	100	0	0	0	-
Kitchen/living 4P	5T00000D	100	0	0	0	-
Bedroom 2P	5T00000E	100	0	0	0	-
Bathroom 2P	5T00000F	100	1.5	20	4	2
Bedroom 2P	5T000001	100	0	0	0	-
Bathroom 2P	5T000013	100	0	0	0	-
Bedroom 2P	5T000016	100	0	0	0	-
Bathroom 2P	5T000017	100	0	0	0	-
Bathroom 2P	5T000018	100	0	1	1	-
Bedroom 2P	5T000015	100	0	0	0	-
kitchen/living 4P	5T000005	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
kitchen/living 4P	5T000044	100	0	0	0	-
Bedroom 2P	5T000042	100	0	0	0	-
Bedroom 2P	5T000000	100	0	0	0	-
Bathroom 2P	5T000040	100	0.2	3	2	-
Bathroom 2P	5T000041	100	0	0	0	-
kitchen/living 4P	5T000039	100	0	0	0	-
Bedroom 2P	5T00003D	100	0	0	0	-
Bedroom 2P	5T00003A	100	0	0	0	-
Bathroom 2P	5T000036	100	0	0	0	-
Bathroom 2P	5T00003B	100	0	0	0	-
kitchen/living 4P	5T000030	100	0	0	0	-
Bedroom 2P	5T00002F	100	0	0	0	-
Bedroom 2P	5T000035	100	0	0	0	-
Bathroom 2P	5T000031	100	0	0	0	-
Bathroom 2P	5T00000C	100	0	0	0	-
kitchen/living 4P	2N00000C	100	0	0	0	-
Bedroom 2P	2N000010	100	0	0	0	-
Bedroom 2P	2N000011	100	0	0	0	-
Bathroom 2P	2N00000F	100	0	0	0	-
Bathroom 2P	2N00000E	100	0	0	0	-
Bathroom 2P	2N00000D	100	0	0	0	-
Bathroom 2P	2N000014	100	0	0	0	-
Bedroom 2P	2N000015	100	0	0	0	-
Bedroom 2P	2N000016	100	0	0	0	-
kitchen/living 4P	2N000006	100	0	0	0	-

Failed: 9 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Gym	BS000003	100	3.4	21	3	1 & 2
Classes	BS000009	100	5.9	26	4	1 & 2
GF Hairdressers	GF000000	85.6	8.8	27	5	1 & 2 & 3
GF Commercial kitchen	GF00000E	100	40.4	76	8	1 & 2 & 3
staff office	KT000002	100	6.2	32	2	1 & 2
GF Cafe	GF000001	100	9.8	50	6	1 & 2 & 3
Hobby room 1st floor	GF00002F	100	5.3	29	5	1 & 2 & 3
Hobby room 1st floor	RC000007	100	5	26	4	1 & 2
Bathroom 2P	5T000033	100	1.1	21	5	2 & 3

Unoccupied: 141 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Staircase	BS000004	0	0	0	0	-
Staircase	BS00000F	0	0	0	0	-
Access corridor	BS00000D	0	0	0	0	-
GF Bar store	GF000009	0	0	0	0	-
Kitchen store	KT000000	0	0	0	0	-
Access corridor	CC000001	0	0	0	0	-
Access corridor	BS000000	0	0	0	0	-
store room	RC000003	0	0	0	0	-
corridor to toilets	RC000005	0	0	0	0	-
store to reception	RC000006	0	0	0	0	-
GF staircase	GF000011	0	0	0	0	-
GF staircase	GF000003	0	0	0	0	-
GF staircase	GF000005	0	0	0	0	-
GF staircase	GF000006	0	0	0	0	-
staircase	GF000031	0	0	0	0	-
staircase	GF000034	0	0	0	0	-
Cupboard	GF000029	0	0	0	0	-
Hallway	GF000027	0	0	0	0	-
Hallway	GF000023	0	0	0	0	-
cupboard	GF000014	0	0	0	0	-
winter garden	GF00001E	0	0	0	0	-
hallway	GF000043	0	0	0	0	-
cupboard	GF00003C	0	0	0	0	-
staircase (1)	ST000000	0	0	0	0	-
staircase (1)	ST000001	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Cupboard (1)	CP000000	0	0	0	0	-
Hallway (1)	HL000000	0	0	0	0	-
hallway (1)	HL000001	0	0	0	0	-
cupboard (1)	CP000001	0	0	0	0	-
cupboard	1S000013	0	0	0	0	-
hallway	1S000015	0	0	0	0	-
cupboard	1S000011	0	0	0	0	-
cupboard	HB000006	0	0	0	0	-
hallway	HB000001	0	0	0	0	-
cupboard	HB000008	0	0	0	0	-
riser	CC000008	0	0	0	0	-
cupboard in access corridor	CC000009	0	0	0	0	-
Access corridor	CC00000A	0	0	0	0	-
Laundry store - cupboard	LN000000	0	0	0	0	-
Elevator shaft	CC000002	0	0	0	0	-
Elevator shaft	LV000000	0	0	0	0	-
GF lift shaft	GF00001B	0	0	0	0	-
GF lift shaft	GF000032	0	0	0	0	-
GF access corridor	GF000002	0	0	0	0	-
GF riser	GF000033	0	0	0	0	-
GF lift shaft	GF000035	0	0	0	0	-
GF lift shaft	GF000036	0	0	0	0	-
GF access corridor	GF000015	0	0	0	0	-
GF riser	GF000037	0	0	0	0	-
access corridor	GF00002A	0	0	0	0	-
riser	CC00000C	0	0	0	0	-
lift shaft	CC00000B	0	0	0	0	-
lift shaft	CC00000D	0	0	0	0	-
lift shaft	CC00000E	0	0	0	0	-
lift shaft	CC00000F	0	0	0	0	-
access corridor	GF00002C	0	0	0	0	-
riser	CC000010	0	0	0	0	-
lift shaft	CC000011	0	0	0	0	-
lift shaft	CC000012	0	0	0	0	-
access corridor (1)	CC000006	0	0	0	0	-
riser	CC000013	0	0	0	0	-
lift shaft	CC000014	0	0	0	0	-
lift shaft	CC000015	0	0	0	0	-
access corridor (1)	CC000004	0	0	0	0	-
riser	CC000016	0	0	0	0	-
staircase (1) (1)	ST000002	0	0	0	0	-
staircase (1) (2)	ST000003	0	0	0	0	-
staircase (1) (1)	ST000004	0	0	0	0	-
staircase (1) (2)	ST000005	0	0	0	0	-
Cupboard (1) (1)	CP000002	0	0	0	0	-
Cupboard (1) (2)	CP000003	0	0	0	0	-
Hallway (1) (1)	HL000002	0	0	0	0	-
Hallway (1) (2)	HL000003	0	0	0	0	-
hallway (1) (1)	HL000004	0	0	0	0	-
hallway (1) (2)	HL000005	0	0	0	0	-
cupboard (1) (1)	CP000004	0	0	0	0	-
cupboard (1) (2)	CP000005	0	0	0	0	-
cupboard (1)	CP000006	0	0	0	0	-
cupboard (2)	CP000007	0	0	0	0	-
hallway (1)	HL000006	0	0	0	0	-
hallway (2)	HL000007	0	0	0	0	-
cupboard (1)	CP000008	0	0	0	0	-
cupboard (2)	CP000009	0	0	0	0	-
cupboard (1)	CP00000A	0	0	0	0	-
cupboard (2)	CP00000B	0	0	0	0	-
hallway (1)	HL000008	0	0	0	0	-
hallway (2)	HL000009	0	0	0	0	-
cupboard (1)	CP00000C	0	0	0	0	-
cupboard (2)	CP00000D	0	0	0	0	-
lift shaft (1)	LF000000	0	0	0	0	-
lift shaft (2)	LF000001	0	0	0	0	-
lift shaft (1)	LF000002	0	0	0	0	-
lift shaft (2)	LF000003	0	0	0	0	-
access corridor (1) (1)	CC00001B	0	0	0	0	-
access corridor (1) (2)	CC00001C	0	0	0	0	-
riser (1)	RS000000	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
riser (2)	RS000001	0	0	0	0	-
lift shaft (1)	LF000004	0	0	0	0	-
lift shaft (2)	LF000005	0	0	0	0	-
lift shaft (1)	LF000006	0	0	0	0	-
lift shaft (2)	LF000007	0	0	0	0	-
access corridor (1) (1)	CC00001D	0	0	0	0	-
access corridor (1) (2)	CC00001E	0	0	0	0	-
riser (1)	RS000002	0	0	0	0	-
riser (2)	RS000003	0	0	0	0	-
lift shaft	5T00001B	0	0	0	0	-
lift shaft	5T00001C	0	0	0	0	-
riser	5T00001D	0	0	0	0	-
cupboard	5T00001E	0	0	0	0	-
hallway	5T000023	0	0	0	0	-
cupboard	5T000027	0	0	0	0	-
hallway	5T000028	0	0	0	0	-
5th floor staircase	5T00001F	0	0	0	0	-
5th floor access corridor	5T000004	0	0	0	0	-
5th floor staircase	5T00002A	0	0	0	0	-
lift shaft	5T00002C	0	0	0	0	-
lift shaft	5T00002D	0	0	0	0	-
5th floor access corridor	5T00002B	0	0	0	0	-
riser	5T00002E	0	0	0	0	-
cupboard	5T000007	0	0	0	0	-
hallway	5T00000B	0	0	0	0	-
cupboard	5T000010	0	0	0	0	-
corridor	5T000012	0	0	0	0	-
cupboard	5T000011	0	0	0	0	-
cupboard	5T000019	0	0	0	0	-
hallway	5T00001A	0	0	0	0	-
cupboard	5T000014	0	0	0	0	-
cupboard	5T000043	0	0	0	0	-
hallway	5T00003E	0	0	0	0	-
cupboard	5T00003F	0	0	0	0	-
cupboard	5T000038	0	0	0	0	-
cupboard	5T000037	0	0	0	0	-
hallway	5T00003C	0	0	0	0	-
hallway	5T000034	0	0	0	0	-
cupboard	5T000032	0	0	0	0	-
cupboard	2N000012	0	0	0	0	-
access corridor (1) (1)	CC00001F	0	0	0	0	-
cupboard	2N000017	0	0	0	0	-
hallway	2N000018	0	0	0	0	-
winter garden	WN000000	0	0	0	0	-
corridor	TL000003	0	0	0	0	-

APPENDIX J

TM52 DSY2020H50

Overall

Passed: 151 rooms:
Failed: 6 rooms:
Unoccupied: 141 rooms:

Data:

Building category: Category II (new builds.)
Days data= 365 01-Jan 31-Dec
Days (summer)= 153 01-May 30-Sep
Data OK? OK Full summer

Occupancy:

Note: This report assesses occupied periods only. Please be aware that TM52 should be conducted for occupied and/or “available hours”.
Use of educational NCM profiles may be seen as inappropriate due to prolonged unoccupied periods during summer months.
See Section 6.1.2 (a) of TM52 for further information.

Passed: 151 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Gym	BS000003	100	1.7	23	3	2
GF Guest accomm.	GF00000B	42.5	0.9	9	1	2
GF Guest Accom	GF00000C	42.5	1.4	13	2	2
GF Staff facilities	GF00000D	100	1	10	1	2
Toilet & changing rooms	TL000000	100	0	0	0	-
Toilet & changing rooms	BS000011	100	0	0	0	-
Toilet & changing rooms	TL000001	100	0	0	0	-
changing/shower	CR000002	100	0	0	0	-
Changing rooms	CH000001	100	0	0	0	-
Changing rooms	CH000002	100	0	0	0	-
Laundry store	BS000005	100	0	0	0	-
Toilet	LN000001	100	0	0	0	-
GF hobby rooms	GF000010	100	0	0	0	-
GF hobby rooms	GF00001C	100	0	0	0	-
toilet to reception	RC000002	100	0	0	0	-
toilet to cafe	RC000004	100	0.2	6	1	-
toilet to cafe	RC000001	100	0.2	4	1	-
reception	RC000000	100	1	24	3	2
Hobby room 1st floor	RC000007	100	2.9	24	4	2
kitchen/living 4P	GF00002B	100	0	0	0	-
Bedroom 2P	GF000026	100	0	0	0	-
Bedroom 2P	GF00002D	100	0	0	0	-
Bath 2P	GF000024	100	0	0	0	-
Bath 2P	GF000030	100	0	0	0	-
Bath 2P	GF000020	100	0	0	0	-
Bath 2P	GF000021	100	0	0	0	-
Bedroom 2P	GF00000F	100	0	0	0	-
Bedroom 2P	GF00001D	100	0	0	0	-
kitchen/living 4P	GF00001F	100	0	0	0	-
kitchen/living 4P	GF00003F	100	0	0	0	-
Bedroom 2P	GF00003D	100	0	0	0	-
Bedroom 2P	GF000042	100	0	0	0	-
Bath 2P	GF000041	100	0	0	0	-
Bath 2P	GF000040	100	0	0	0	-
kitchen/living 4P (1)	KT000001	100	0	0	0	-
Bedroom 2P	BD000000	100	0	0	0	-
Bedroom 2P	BD000001	100	0	0	0	-
Bath 2P (1)	BT000000	100	0	0	0	-
Bath 2P (1)	BT000001	100	0	0	0	-
kitchen/living 4P (1)	KT000003	100	0	0	0	-
Bedroom 2P	BD000002	100	0	0	0	-
Bedroom 2P	BD000003	100	0	0	0	-
Bath 2P (1)	BT000002	100	0	0	0	-
Bath 2P (1)	BT000003	100	0	0	0	-
Bedroom 2B	1S000016	100	0	0	0	-
Bath 2P	1S00000D	100	0	0	0	-
Bath 3P	1S000014	100	0.2	6	2	-
Bedroom 2P	1S00000F	100	0	0	0	-
Bedroom 1P	1S000010	100	0	0	0	-
kitchen/living 5P	1S000012	100	0	0	0	-
Bedroom 2P	HB000000	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Bathroom 2P	HB000003	100	0	0	0	-
Bedroom 2P	HB000004	100	0	0	0	-
Bathroom 2P	HB000007	100	0	0	0	-
kitchen/living 4P	HB000005	100	0	0	0	-
Laundry store	LN000002	100	0	0	0	-
GF Residents Lounge - no nat light	GF000008	100	1	21	3	2
GF toilets to lounge	GF000007	100	0	0	0	-
GF toilets to lounge	GF000013	100	0	0	0	-
GF toilets to lounge	GF000019	100	0	0	0	-
GF toilets to lounge	GF00001A	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000004	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000007	100	0	0	0	-
Bedroom 2P	BD000004	100	0	0	0	-
Bedroom 2P	BD000005	100	0	0	0	-
Bedroom 2P	BD000006	100	0	0	0	-
Bedroom 2P	BD000007	100	0	0	0	-
Bath 2P (1) (1)	BT000004	100	0	0	0	-
Bath 2P (1) (2)	BT000005	100	0	0	0	-
Bath 2P (1) (1)	BT000006	100	0	0	0	-
Bath 2P (1) (2)	BT000007	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000008	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000009	100	0	0	0	-
Bedroom 2P	BD000008	100	0	0	0	-
Bedroom 2P	BD000009	100	0	0	0	-
Bedroom 2P	BD00000A	100	0	0	0	-
Bedroom 2P	BD00000B	100	0	0	0	-
Bath 2P (1) (1)	BT000008	100	0	0	0	-
Bath 2P (1) (2)	BT000009	100	0	0	0	-
Bath 2P (1) (1)	BT00000A	100	0	0	0	-
Bath 2P (1) (2)	BT00000B	100	0	0	0	-
Bedroom 2B	BD00000C	100	0	0	0	-
Bedroom 2B	BD00000D	100	0	0	0	-
Bath 2P (1)	BT00000C	100	0	0	0	-
Bath 2P (2)	BT00000D	100	0	0	0	-
Bath 3P (1)	BT00000E	100	0.3	5	2	-
Bath 3P (2)	BT00000F	100	0.2	4	2	-
Bedroom 2P	BD00000E	100	0	0	0	-
Bedroom 2P	BD00000F	100	0	0	0	-
Bedroom 1P	BD000010	100	0	0	0	-
Bedroom 1P	BD000011	100	0	0	0	-
kitchen/living 5P (1)	KT00000A	100	0	0	0	-
kitchen/living 5P (2)	KT00000B	100	0	0	0	-
Bedroom 2P	BD000012	100	0	0	0	-
Bedroom 2P	BD000013	100	0	0	0	-
Bathroom 2P	BT000010	100	0	0	0	-
Bathroom 2P	BT000011	100	0	0	0	-
Bedroom 2P	BD000014	100	0	0	0	-
Bedroom 2P	BD000015	100	0	0	0	-
Bathroom 2P (1)	BT000012	100	0	0	0	-
Bathroom 2P (2)	BT000013	100	0	0	0	-
kitchen/living 4P (1)	KT00000C	100	0	0	0	-
kitchen/living 4P (2)	KT00000D	100	0	0	0	-
kitchen/living 4P	5T000002	100	0	0	0	-
Bedroom 2P	5T000020	100	0	0	0	-
Bedroom 2P	5T000021	100	0	0	0	-
Bathroom 4P	5T000022	100	0	0	0	-
Bedroom 2P	5T000003	100	0	0	0	-
kitchen/living 4P	5T000024	100	0	0	0	-
Bedroom 2P	5T000025	100	0	0	0	-
Bathroom 4P	5T000026	100	0	0	0	-
kitchen/living 4P	5T000008	100	0	0	0	-
Bedroom 2P	5T000009	100	0	0	0	-
Bedroom 2P	5T000006	100	0	0	0	-
Bathroom 2P	5T00000A	100	0	0	0	-
Kitchen/living 4P	5T00000D	100	0	0	0	-
Bedroom 2P	5T00000E	100	0	0	0	-
Bathroom 2P	5T00000F	100	1	17	3	2
Bedroom 2P	5T000001	100	0	0	0	-
Bathroom 2P	5T000013	100	0	0	0	-
Bedroom 2P	5T000016	100	0	0	0	-
Bathroom 2P	5T000017	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Bathroom 2P	5T000018	100	0	0	0	-
Bedroom 2P	5T000015	100	0	0	0	-
kitchen/living 4P	5T000005	100	0	0	0	-
kitchen/living 4P	5T000044	100	0	0	0	-
Bedroom 2P	5T000042	100	0	0	0	-
Bedroom 2P	5T000000	100	0	0	0	-
Bathroom 2P	5T000040	100	0	0	0	-
Bathroom 2P	5T000041	100	0	0	0	-
kitchen/living 4P	5T000039	100	0	0	0	-
Bedroom 2P	5T00003D	100	0	0	0	-
Bedroom 2P	5T00003A	100	0	0	0	-
Bathroom 2P	5T000036	100	0	0	0	-
Bathroom 2P	5T00003B	100	0	0	0	-
kitchen/living 4P	5T000030	100	0	0	0	-
Bedroom 2P	5T00002F	100	0	0	0	-
Bathroom 2P	5T000033	100	0.7	10	3	2
Bedroom 2P	5T000035	100	0	0	0	-
Bathroom 2P	5T000031	100	0	0	0	-
Bathroom 2P	5T00000C	100	0	0	0	-
kitchen/living 4P	2N00000C	100	0	0	0	-
Bedroom 2P	2N000010	100	0	0	0	-
Bedroom 2P	2N000011	100	0	0	0	-
Bathroom 2P	2N00000F	100	0	0	0	-
Bathroom 2P	2N00000E	100	0	0	0	-
Bathroom 2P	2N00000D	100	0	0	0	-
Bathroom 2P	2N000014	100	0	0	0	-
Bedroom 2P	2N000015	100	0	0	0	-
Bedroom 2P	2N000016	100	0	0	0	-
kitchen/living 4P	2N000006	100	0	0	0	-

Failed: 6 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Classes	BS000009	100	3.9	25	4	1 & 2
GF Hairdressers	GF000000	85.6	5.6	29	5	1 & 2 & 3
GF Commercial kitchen	GF00000E	100	49.3	79	8	1 & 2 & 3
staff office	KT000002	100	3.3	29	2	1 & 2
GF Cafe	GF000001	100	9.8	58	7	1 & 2 & 3
Hobby room 1st floor	GF00002F	100	3.5	26	4	1 & 2

Unoccupied: 141 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Staircase	BS000004	0	0	0	0	-
Staircase	BS00000F	0	0	0	0	-
Access corridor	BS00000D	0	0	0	0	-
GF Bar store	GF000009	0	0	0	0	-
Kitchen store	KT000000	0	0	0	0	-
Access corridor	CC000001	0	0	0	0	-
Access corridor	BS000000	0	0	0	0	-
store room	RC000003	0	0	0	0	-
corridor to toilets	RC000005	0	0	0	0	-
store to reception	RC000006	0	0	0	0	-
GF staircase	GF000011	0	0	0	0	-
GF staircase	GF000003	0	0	0	0	-
GF staircase	GF000005	0	0	0	0	-
GF staircase	GF000006	0	0	0	0	-
staircase	GF000031	0	0	0	0	-
staircase	GF000034	0	0	0	0	-
Cupboard	GF000029	0	0	0	0	-
Hallway	GF000027	0	0	0	0	-
Hallway	GF000023	0	0	0	0	-
cupboard	GF000014	0	0	0	0	-
winter garden	GF00001E	0	0	0	0	-
hallway	GF000043	0	0	0	0	-
cupboard	GF00003C	0	0	0	0	-
staircase (1)	ST000000	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
staircase (1)	ST000001	0	0	0	0	-
Cupboard (1)	CP000000	0	0	0	0	-
Hallway (1)	HL000000	0	0	0	0	-
hallway (1)	HL000001	0	0	0	0	-
cupboard (1)	CP000001	0	0	0	0	-
cupboard	1S000013	0	0	0	0	-
hallway	1S000015	0	0	0	0	-
cupboard	1S000011	0	0	0	0	-
cupboard	HB000006	0	0	0	0	-
hallway	HB000001	0	0	0	0	-
cupboard	HB000008	0	0	0	0	-
riser	CC000008	0	0	0	0	-
cupboard in access corridor	CC000009	0	0	0	0	-
Access corridor	CC00000A	0	0	0	0	-
Laundry store - cupboard	LN000000	0	0	0	0	-
Elevator shaft	CC000002	0	0	0	0	-
Elevator shaft	LV000000	0	0	0	0	-
GF lift shaft	GF00001B	0	0	0	0	-
GF lift shaft	GF000032	0	0	0	0	-
GF access corridor	GF000002	0	0	0	0	-
GF riser	GF000033	0	0	0	0	-
GF lift shaft	GF000035	0	0	0	0	-
GF lift shaft	GF000036	0	0	0	0	-
GF access corridor	GF000015	0	0	0	0	-
GF riser	GF000037	0	0	0	0	-
access corridor	GF00002A	0	0	0	0	-
riser	CC00000C	0	0	0	0	-
lift shaft	CC00000B	0	0	0	0	-
lift shaft	CC00000D	0	0	0	0	-
lift shaft	CC00000E	0	0	0	0	-
lift shaft	CC00000F	0	0	0	0	-
access corridor	GF00002C	0	0	0	0	-
riser	CC000010	0	0	0	0	-
lift shaft	CC000011	0	0	0	0	-
lift shaft	CC000012	0	0	0	0	-
access corridor (1)	CC000006	0	0	0	0	-
riser	CC000013	0	0	0	0	-
lift shaft	CC000014	0	0	0	0	-
lift shaft	CC000015	0	0	0	0	-
access corridor (1)	CC000004	0	0	0	0	-
riser	CC000016	0	0	0	0	-
staircase (1) (1)	ST000002	0	0	0	0	-
staircase (1) (2)	ST000003	0	0	0	0	-
staircase (1) (1)	ST000004	0	0	0	0	-
staircase (1) (2)	ST000005	0	0	0	0	-
Cupboard (1) (1)	CP000002	0	0	0	0	-
Cupboard (1) (2)	CP000003	0	0	0	0	-
Hallway (1) (1)	HL000002	0	0	0	0	-
Hallway (1) (2)	HL000003	0	0	0	0	-
hallway (1) (1)	HL000004	0	0	0	0	-
hallway (1) (2)	HL000005	0	0	0	0	-
cupboard (1) (1)	CP000004	0	0	0	0	-
cupboard (1) (2)	CP000005	0	0	0	0	-
cupboard (1)	CP000006	0	0	0	0	-
cupboard (2)	CP000007	0	0	0	0	-
hallway (1)	HL000006	0	0	0	0	-
hallway (2)	HL000007	0	0	0	0	-
cupboard (1)	CP000008	0	0	0	0	-
cupboard (2)	CP000009	0	0	0	0	-
cupboard (1)	CP00000A	0	0	0	0	-
cupboard (2)	CP00000B	0	0	0	0	-
hallway (1)	HL000008	0	0	0	0	-
hallway (2)	HL000009	0	0	0	0	-
cupboard (1)	CP00000C	0	0	0	0	-
cupboard (2)	CP00000D	0	0	0	0	-
lift shaft (1)	LF000000	0	0	0	0	-
lift shaft (2)	LF000001	0	0	0	0	-
lift shaft (1)	LF000002	0	0	0	0	-
lift shaft (2)	LF000003	0	0	0	0	-
access corridor (1) (1)	CC00001B	0	0	0	0	-
access corridor (1) (2)	CC00001C	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
riser (2)	RS000001	0	0	0	0	-
lift shaft (1)	LF000004	0	0	0	0	-
lift shaft (2)	LF000005	0	0	0	0	-
lift shaft (1)	LF000006	0	0	0	0	-
lift shaft (2)	LF000007	0	0	0	0	-
access corridor (1) (1)	CC00001D	0	0	0	0	-
access corridor (1) (2)	CC00001E	0	0	0	0	-
riser (1)	RS000002	0	0	0	0	-
riser (2)	RS000003	0	0	0	0	-
lift shaft	5T00001B	0	0	0	0	-
lift shaft	5T00001C	0	0	0	0	-
riser	5T00001D	0	0	0	0	-
cupboard	5T00001E	0	0	0	0	-
hallway	5T000023	0	0	0	0	-
cupboard	5T000027	0	0	0	0	-
hallway	5T000028	0	0	0	0	-
5th floor staircase	5T00001F	0	0	0	0	-
5th floor access corridor	5T000004	0	0	0	0	-
5th floor staircase	5T00002A	0	0	0	0	-
lift shaft	5T00002C	0	0	0	0	-
lift shaft	5T00002D	0	0	0	0	-
5th floor access corridor	5T00002B	0	0	0	0	-
riser	5T00002E	0	0	0	0	-
cupboard	5T000007	0	0	0	0	-
hallway	5T00000B	0	0	0	0	-
cupboard	5T000010	0	0	0	0	-
corridor	5T000012	0	0	0	0	-
cupboard	5T000011	0	0	0	0	-
cupboard	5T000019	0	0	0	0	-
hallway	5T00001A	0	0	0	0	-
cupboard	5T000014	0	0	0	0	-
cupboard	5T000043	0	0	0	0	-
hallway	5T00003E	0	0	0	0	-
cupboard	5T00003F	0	0	0	0	-
cupboard	5T000038	0	0	0	0	-
cupboard	5T000037	0	0	0	0	-
hallway	5T00003C	0	0	0	0	-
hallway	5T000034	0	0	0	0	-
cupboard	5T000032	0	0	0	0	-
cupboard	2N000012	0	0	0	0	-
access corridor (1) (1)	CC00001F	0	0	0	0	-
cupboard	2N000017	0	0	0	0	-
hallway	2N000018	0	0	0	0	-
winter garden	WN000000	0	0	0	0	-
corridor	TL000003	0	0	0	0	-

APPENDIX K

TM52: DSY05 - cooling to non-domestic spaces

Overall

Passed: 157 rooms:
Failed: 0 rooms:
Unoccupied: 141 rooms:

Data:

Building category: Category II (new builds.)
Days data= 365 01-Jan 31-Dec
Days (summer)= 153 01-May 30-Sep
Data OK? OK Full summer

Occupancy:

Note: This report assesses occupied periods only. Please be aware that TM52 should be conducted for occupied and/or “available hours”.
Use of educational NCM profiles may be seen as inappropriate due to prolonged unoccupied periods during summer months.
See Section 6.1.2 (a) of TM52 for further information.

Passed: 157 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Gym	BS000003	100	0.5	8	2	2
Classes	BS000009	100	0.4	6	3	-
GF Hairdressers	GF000000	85.6	0	0	0	-
GF Guest accomm.	GF00000B	42.5	0	0	0	-
GF Guest Accomm	GF00000C	42.5	0.5	6	1	-
GF Commercial kitchen	GF00000E	100	0.4	5	2	-
GF Staff facilities	GF00000D	100	0	0	0	-
staff office	KT000002	100	0.4	6	1	-
Toilet & changing rooms	TL000000	100	0	0	0	-
Toilet & changing rooms	BS000011	100	0	0	0	-
Toilet & changing rooms	TL000001	100	0	0	0	-
changing/shower	CR000002	100	0	0	0	-
Changing rooms	CH000001	100	0	0	0	-
Changing rooms	CH000002	100	0	0	0	-
Laundry store	BS000005	100	0	0	0	-
Toilet	LN000001	100	0	0	0	-
GF hobby rooms	GF000010	100	0	0	0	-
GF hobby rooms	GF00001C	100	0	0	0	-
GF Cafe	GF000001	100	0	0	0	-
toilet to reception	RC000002	100	0	0	0	-
toilet to cafe	RC000004	100	0	0	0	-
toilet to cafe	RC000001	100	0	0	0	-
reception	RC000000	100	0.4	14	2	2
Hobby room 1st floor	GF00002F	100	0	0	0	-
Hobby room 1st floor	RC000007	100	0	0	0	-
kitchen/living 4P	GF00002B	100	0	0	0	-
Bedroom 2P	GF000026	100	0	0	0	-
Bedroom 2P	GF00002D	100	0	0	0	-
Bath 2P	GF000024	100	0	0	0	-
Bath 2P	GF000030	100	0	0	0	-
Bath 2P	GF000020	100	0	0	0	-
Bath 2P	GF000021	100	0	0	0	-
Bedroom 2P	GF00000F	100	0	0	0	-
Bedroom 2P	GF00001D	100	0	0	0	-
kitchen/living 4P	GF00001F	100	0	0	0	-
kitchen/living 4P	GF00003F	100	0	0	0	-
Bedroom 2P	GF00003D	100	0	0	0	-
Bedroom 2P	GF000042	100	0	0	0	-
Bath 2P	GF000041	100	0	0	0	-
Bath 2P	GF000040	100	0	0	0	-
kitchen/living 4P (1)	KT000001	100	0	0	0	-
Bedroom 2P	BD000000	100	0	0	0	-
Bedroom 2P	BD000001	100	0	0	0	-
Bath 2P (1)	BT000000	100	0	0	0	-
Bath 2P (1)	BT000001	100	0	0	0	-
kitchen/living 4P (1)	KT000003	100	0	0	0	-
Bedroom 2P	BD000002	100	0	0	0	-
Bedroom 2P	BD000003	100	0	0	0	-
Bath 2P (1)	BT000002	100	0	0	0	-
Bath 2P (1)	BT000003	100	0	0	0	-
Bedroom 2B	1S000016	100	0	0	0	-
Bath 2P	1S00000D	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Bath 3P	1S000014	100	0.2	4	1	-
Bedroom 2P	1S00000F	100	0	0	0	-
Bedroom 1P	1S000010	100	0	0	0	-
kitchen/living 5P	1S000012	100	0	0	0	-
Bedroom 2P	HB000000	100	0	0	0	-
Bathroom 2P	HB000003	100	0	0	0	-
Bedroom 2P	HB000004	100	0	0	0	-
Bathroom 2P	HB000007	100	0	0	0	-
kitchen/living 4P	HB000005	100	0	0	0	-
Laundry store	LN000002	100	0	0	0	-
GF Residents Lounge	GF000008	100	0.7	15	2	2
GF toilets to lounge	GF000007	100	0	0	0	-
GF toilets to lounge	GF000013	100	0	0	0	-
GF toilets to lounge	GF000019	100	0	0	0	-
GF toilets to lounge	GF00001A	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000004	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000007	100	0	0	0	-
Bedroom 2P	BD000004	100	0	0	0	-
Bedroom 2P	BD000005	100	0	0	0	-
Bedroom 2P	BD000006	100	0	0	0	-
Bedroom 2P	BD000007	100	0	0	0	-
Bath 2P (1) (1)	BT000004	100	0	0	0	-
Bath 2P (1) (2)	BT000005	100	0	0	0	-
Bath 2P (1) (1)	BT000006	100	0	0	0	-
Bath 2P (1) (2)	BT000007	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000008	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000009	100	0	0	0	-
Bedroom 2P	BD000008	100	0	0	0	-
Bedroom 2P	BD000009	100	0	0	0	-
Bedroom 2P	BD00000A	100	0	0	0	-
Bedroom 2P	BD00000B	100	0	0	0	-
Bath 2P (1) (1)	BT000008	100	0	0	0	-
Bath 2P (1) (2)	BT000009	100	0	0	0	-
Bath 2P (1) (1)	BT00000A	100	0	0	0	-
Bath 2P (1) (2)	BT00000B	100	0	0	0	-
Bedroom 2B	BD00000C	100	0	0	0	-
Bedroom 2B	BD00000D	100	0	0	0	-
Bath 2P (1)	BT00000C	100	0	0	0	-
Bath 2P (2)	BT00000D	100	0	0	0	-
Bath 3P (1)	BT00000E	100	0.3	5	1	-
Bath 3P (2)	BT00000F	100	0	1	1	-
Bedroom 2P	BD00000E	100	0	0	0	-
Bedroom 2P	BD00000F	100	0	0	0	-
Bedroom 1P	BD000010	100	0	0	0	-
Bedroom 1P	BD000011	100	0	0	0	-
kitchen/living 5P (1)	KT00000A	100	0	0	0	-
kitchen/living 5P (2)	KT00000B	100	0	0	0	-
Bedroom 2P	BD000012	100	0	0	0	-
Bedroom 2P	BD000013	100	0	0	0	-
Bathroom 2P	BT000010	100	0	0	0	-
Bathroom 2P	BT000011	100	0	0	0	-
Bedroom 2P	BD000014	100	0	0	0	-
Bedroom 2P	BD000015	100	0	0	0	-
Bathroom 2P (1)	BT000012	100	0	0	0	-
Bathroom 2P (2)	BT000013	100	0	0	0	-
kitchen/living 4P (1)	KT00000C	100	0	0	0	-
kitchen/living 4P (2)	KT00000D	100	0	0	0	-
kitchen/living 4P	5T000002	100	0	0	0	-
Bedroom 2P	5T000020	100	0	0	0	-
Bedroom 2P	5T000021	100	0	0	0	-
Bathroom 4P	5T000022	100	0	0	0	-
Bedroom 2P	5T000003	100	0	0	0	-
kitchen/living 4P	5T000024	100	0	0	0	-
Bedroom 2P	5T000025	100	0	0	0	-
Bathroom 4P	5T000026	100	0	0	0	-
kitchen/living 4P	5T000008	100	0	0	0	-
Bedroom 2P	5T000009	100	0	0	0	-
Bedroom 2P	5T000006	100	0	0	0	-
Bathroom 2P	5T00000A	100	0	0	0	-
Kitchen/living 4P	5T00000D	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Bedroom 2P	5T00000E	100	0	0	0	-
Bathroom 2P	5T00000F	100	0.8	10	3	2
Bedroom 2P	5T000001	100	0	0	0	-
Bathroom 2P	5T000013	100	0	0	0	-
Bedroom 2P	5T000016	100	0	0	0	-
Bathroom 2P	5T000017	100	0	0	0	-
Bathroom 2P	5T000018	100	0	0	0	-
Bedroom 2P	5T000015	100	0	0	0	-
kitchen/living 4P	5T000005	100	0	0	0	-
kitchen/living 4P	5T000044	100	0	0	0	-
Bedroom 2P	5T000042	100	0	0	0	-
Bedroom 2P	5T000000	100	0	0	0	-
Bathroom 2P	5T000040	100	0.1	1	1	-
Bathroom 2P	5T000041	100	0	0	0	-
kitchen/living 4P	5T000039	100	0	0	0	-
Bedroom 2P	5T00003D	100	0	0	0	-
Bedroom 2P	5T00003A	100	0	0	0	-
Bathroom 2P	5T000036	100	0	0	0	-
Bathroom 2P	5T00003B	100	0	0	0	-
kitchen/living 4P	5T000030	100	0	0	0	-
Bedroom 2P	5T00002F	100	0	0	0	-
Bathroom 2P	5T000033	100	0.4	8	2	2
Bedroom 2P	5T000035	100	0	0	0	-
Bathroom 2P	5T000031	100	0	0	0	-
Bathroom 2P	5T00000C	100	0	0	0	-
kitchen/living 4P	2N00000C	100	0	0	0	-
Bedroom 2P	2N000010	100	0	0	0	-
Bedroom 2P	2N000011	100	0	0	0	-
Bathroom 2P	2N00000F	100	0	0	0	-
Bathroom 2P	2N00000E	100	0	0	0	-
Bathroom 2P	2N00000D	100	0	0	0	-
Bathroom 2P	2N000014	100	0	0	0	-
Bedroom 2P	2N000015	100	0	0	0	-
Bedroom 2P	2N000016	100	0	0	0	-
kitchen/living 4P	2N000006	100	0	0	0	-

Failed: 0 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
-----------	---------	-------------------	--------------------------------	---------------------------------	--------------------------	------------------

Unoccupied: 141 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Staircase	BS000004	0	0	0	0	-
Staircase	BS00000F	0	0	0	0	-
Access corridor	BS00000D	0	0	0	0	-
GF Bar store	GF000009	0	0	0	0	-
Kitchen store	KT000000	0	0	0	0	-
Access corridor	CC000001	0	0	0	0	-
Access corridor	BS000000	0	0	0	0	-
store room	RC000003	0	0	0	0	-
corridor to toilets	RC000005	0	0	0	0	-
store to reception	RC000006	0	0	0	0	-
GF staircase	GF000011	0	0	0	0	-
GF staircase	GF000003	0	0	0	0	-
GF staircase	GF000005	0	0	0	0	-
GF staircase	GF000006	0	0	0	0	-
staircase	GF000031	0	0	0	0	-
staircase	GF000034	0	0	0	0	-
Cupboard	GF000029	0	0	0	0	-
Hallway	GF000027	0	0	0	0	-
Hallway	GF000023	0	0	0	0	-
cupboard	GF000014	0	0	0	0	-
winter garden	GF00001E	0	0	0	0	-
hallway	GF000043	0	0	0	0	-
cupboard	GF00003C	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
staircase (1)	ST000000	0	0	0	0	-
staircase (1)	ST000001	0	0	0	0	-
Cupboard (1)	CP000000	0	0	0	0	-
Hallway (1)	HL000000	0	0	0	0	-
hallway (1)	HL000001	0	0	0	0	-
cupboard (1)	CP000001	0	0	0	0	-
cupboard	1S000013	0	0	0	0	-
hallway	1S000015	0	0	0	0	-
cupboard	1S000011	0	0	0	0	-
cupboard	HB000006	0	0	0	0	-
hallway	HB000001	0	0	0	0	-
cupboard	HB000008	0	0	0	0	-
riser	CC000008	0	0	0	0	-
cupboard in access corridor	CC000009	0	0	0	0	-
Access corridor	CC00000A	0	0	0	0	-
Laundry store - cupboard	LN000000	0	0	0	0	-
Elevator shaft	CC000002	0	0	0	0	-
Elevator shaft	LV000000	0	0	0	0	-
GF lift shaft	GF00001B	0	0	0	0	-
GF lift shaft	GF000032	0	0	0	0	-
GF access corridor	GF000002	0	0	0	0	-
GF riser	GF000033	0	0	0	0	-
GF lift shaft	GF000035	0	0	0	0	-
GF lift shaft	GF000036	0	0	0	0	-
GF access corridor	GF000015	0	0	0	0	-
GF riser	GF000037	0	0	0	0	-
access corridor	GF00002A	0	0	0	0	-
riser	CC00000C	0	0	0	0	-
lift shaft	CC00000B	0	0	0	0	-
lift shaft	CC00000D	0	0	0	0	-
lift shaft	CC00000E	0	0	0	0	-
lift shaft	CC00000F	0	0	0	0	-
access corridor	GF00002C	0	0	0	0	-
riser	CC000010	0	0	0	0	-
lift shaft	CC000011	0	0	0	0	-
lift shaft	CC000012	0	0	0	0	-
access corridor (1)	CC000006	0	0	0	0	-
riser	CC000013	0	0	0	0	-
lift shaft	CC000014	0	0	0	0	-
lift shaft	CC000015	0	0	0	0	-
access corridor (1)	CC000004	0	0	0	0	-
riser	CC000016	0	0	0	0	-
staircase (1) (1)	ST000002	0	0	0	0	-
staircase (1) (2)	ST000003	0	0	0	0	-
staircase (1) (1)	ST000004	0	0	0	0	-
staircase (1) (2)	ST000005	0	0	0	0	-
Cupboard (1) (1)	CP000002	0	0	0	0	-
Cupboard (1) (2)	CP000003	0	0	0	0	-
Hallway (1) (1)	HL000002	0	0	0	0	-
Hallway (1) (2)	HL000003	0	0	0	0	-
hallway (1) (1)	HL000004	0	0	0	0	-
hallway (1) (2)	HL000005	0	0	0	0	-
cupboard (1) (1)	CP000004	0	0	0	0	-
cupboard (1) (2)	CP000005	0	0	0	0	-
cupboard (1)	CP000006	0	0	0	0	-
cupboard (2)	CP000007	0	0	0	0	-
hallway (1)	HL000006	0	0	0	0	-
hallway (2)	HL000007	0	0	0	0	-
cupboard (1)	CP000008	0	0	0	0	-
cupboard (2)	CP000009	0	0	0	0	-
cupboard (1)	CP00000A	0	0	0	0	-
cupboard (2)	CP00000B	0	0	0	0	-
hallway (1)	HL000008	0	0	0	0	-
hallway (2)	HL000009	0	0	0	0	-
cupboard (1)	CP00000C	0	0	0	0	-
cupboard (2)	CP00000D	0	0	0	0	-
lift shaft (1)	LF000000	0	0	0	0	-
lift shaft (2)	LF000001	0	0	0	0	-
lift shaft (1)	LF000002	0	0	0	0	-
lift shaft (2)	LF000003	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top- Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
access corridor (1) (1)	CC00001B	0	0	0	0	-
access corridor (1) (2)	CC00001C	0	0	0	0	-
riser (1)	RS000000	0	0	0	0	-
riser (2)	RS000001	0	0	0	0	-
lift shaft (1)	LF000004	0	0	0	0	-
lift shaft (2)	LF000005	0	0	0	0	-
lift shaft (1)	LF000006	0	0	0	0	-
lift shaft (2)	LF000007	0	0	0	0	-
access corridor (1) (1)	CC00001D	0	0	0	0	-
access corridor (1) (2)	CC00001E	0	0	0	0	-
riser (1)	RS000002	0	0	0	0	-
riser (2)	RS000003	0	0	0	0	-
lift shaft	5T00001B	0	0	0	0	-
lift shaft	5T00001C	0	0	0	0	-
riser	5T00001D	0	0	0	0	-
cupboard	5T00001E	0	0	0	0	-
hallway	5T000023	0	0	0	0	-
cupboard	5T000027	0	0	0	0	-
hallway	5T000028	0	0	0	0	-
5th floor staircase	5T00001F	0	0	0	0	-
5th floor access corridor	5T000004	0	0	0	0	-
5th floor staircase	5T00002A	0	0	0	0	-
lift shaft	5T00002C	0	0	0	0	-
lift shaft	5T00002D	0	0	0	0	-
5th floor access corridor	5T00002B	0	0	0	0	-
riser	5T00002E	0	0	0	0	-
cupboard	5T000007	0	0	0	0	-
hallway	5T00000B	0	0	0	0	-
cupboard	5T000010	0	0	0	0	-
corridor	5T000012	0	0	0	0	-
cupboard	5T000011	0	0	0	0	-
cupboard	5T000019	0	0	0	0	-
hallway	5T00001A	0	0	0	0	-
cupboard	5T000014	0	0	0	0	-
cupboard	5T000043	0	0	0	0	-
hallway	5T00003E	0	0	0	0	-
cupboard	5T00003F	0	0	0	0	-
cupboard	5T000038	0	0	0	0	-
cupboard	5T000037	0	0	0	0	-
hallway	5T00003C	0	0	0	0	-
hallway	5T000034	0	0	0	0	-
cupboard	5T000032	0	0	0	0	-
cupboard	2N000012	0	0	0	0	-
access corridor (1) (1)	CC00001F	0	0	0	0	-
cupboard	2N000017	0	0	0	0	-
hallway	2N000018	0	0	0	0	-
winter garden	WN000000	0	0	0	0	-
corridor	TL000003	0	0	0	0	-

APPENDIX L

TM52: DSY2020H

Overall

Passed: 157 rooms:
Failed: 0 rooms:
Unoccupied: 141 rooms:

Data:

Building category: Category II (new builds.)
Days data= 365 01-Jan 31-Dec
Days (summer)= 153 01-May 30-Sep
Data OK? OK Full summer

Occupancy:

Note: This report assesses occupied periods only. Please be aware that TM52 should be conducted for occupied and/or “available hours”.
Use of educational NCM profiles may be seen as inappropriate due to prolonged unoccupied periods during summer months.
See Section 6.1.2 (a) of TM52 for further information.

Passed: 157 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Gym	BS000003	100	0.8	14	3	2
Classes	BS000009	100	0.9	7	3	2
GF Hairdressers	GF000000	85.6	0	0	0	-
GF Guest accomm.	GF00000B	43.1	1.1	16	2	2
GF Guest Accom	GF00000C	43.1	1.3	18	2	2
GF Commercial kitchen	GF00000E	100	0.7	6	2	-
GF Staff facilities	GF00000D	100	0.5	5	1	-
staff office	KT000002	100	1.3	15	1	2
Toilet & changing rooms	TL000000	100	0	0	0	-
Toilet & changing rooms	BS000011	100	0	0	0	-
Toilet & changing rooms	TL000001	100	0	0	0	-
changing/shower	CR000002	100	0	0	0	-
Changing rooms	CH000001	100	0	0	0	-
Changing rooms	CH000002	100	0	0	0	-
Laundry store	BS000005	100	0	0	0	-
Toilet	LN000001	100	0	0	0	-
GF hobby rooms	GF000010	100	0	0	0	-
GF hobby rooms	GF00001C	100	0	0	0	-
GF Cafe	GF000001	100	0	0	0	-
toilet to reception	RC000002	100	0	0	0	-
toilet to cafe	RC000004	100	0	0	0	-
toilet to cafe	RC000001	100	0	0	0	-
reception	RC000000	100	0.8	22	3	2
Hobby room 1st floor	GF00002F	100	0	0	0	-
Hobby room 1st floor	RC000007	100	0	0	0	-
kitchen/living 4P	GF00002B	100	0	0	0	-
Bedroom 2P	GF000026	100	0	0	0	-
Bedroom 2P	GF00002D	100	0	0	0	-
Bath 2P	GF000024	100	0	0	0	-
Bath 2P	GF000030	100	0	0	0	-
Bath 2P	GF000020	100	0	0	0	-
Bath 2P	GF000021	100	0	0	0	-
Bedroom 2P	GF00000F	100	0	0	0	-
Bedroom 2P	GF00001D	100	0	0	0	-
kitchen/living 4P	GF00001F	100	0	0	0	-
kitchen/living 4P	GF00003F	100	0	0	0	-
Bedroom 2P	GF00003D	100	0	0	0	-
Bedroom 2P	GF000042	100	0	0	0	-
Bath 2P	GF000041	100	0	0	0	-
Bath 2P	GF000040	100	0	0	0	-
kitchen/living 4P (1)	KT000001	100	0	0	0	-
Bedroom 2P	BD000000	100	0	0	0	-
Bedroom 2P	BD000001	100	0	0	0	-
Bath 2P (1)	BT000000	100	0	0	0	-
Bath 2P (1)	BT000001	100	0	0	0	-
kitchen/living 4P (1)	KT000003	100	0	0	0	-
Bedroom 2P	BD000002	100	0	0	0	-
Bedroom 2P	BD000003	100	0	0	0	-
Bath 2P (1)	BT000002	100	0	0	0	-
Bath 2P (1)	BT000003	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Bedroom 2B	1S000016	100	0	0	0	-
Bath 2P	1S00000D	100	0	0	0	-
Bath 3P	1S000014	100	0.4	7	2	2
Bedroom 2P	1S00000F	100	0	0	0	-
Bedroom 1P	1S000010	100	0	0	0	-
kitchen/living 5P	1S000012	100	0	0	0	-
Bedroom 2P	HB000000	100	0	0	0	-
Bathroom 2P	HB000003	100	0	0	0	-
Bedroom 2P	HB000004	100	0	0	0	-
Bathroom 2P	HB000007	100	0	0	0	-
kitchen/living 4P	HB000005	100	0	0	0	-
Laundry store	LN000002	100	0	0	0	-
GF Residents Lounge	GF000008	100	1	9	3	2
GF toilets to lounge	GF000007	100	0	0	0	-
GF toilets to lounge	GF000013	100	0	0	0	-
GF toilets to lounge	GF000019	100	0	0	0	-
GF toilets to lounge	GF00001A	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000004	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000007	100	0	0	0	-
Bedroom 2P	BD000004	100	0	0	0	-
Bedroom 2P	BD000005	100	0	0	0	-
Bedroom 2P	BD000006	100	0	0	0	-
Bedroom 2P	BD000007	100	0	0	0	-
Bath 2P (1) (1)	BT000004	100	0	0	0	-
Bath 2P (1) (2)	BT000005	100	0	0	0	-
Bath 2P (1) (1)	BT000006	100	0	0	0	-
Bath 2P (1) (2)	BT000007	100	0	0	0	-
kitchen/living 4P (1) (1)	KT000008	100	0	0	0	-
kitchen/living 4P (1) (2)	KT000009	100	0	0	0	-
Bedroom 2P	BD000008	100	0	0	0	-
Bedroom 2P	BD000009	100	0	0	0	-
Bedroom 2P	BD00000A	100	0	0	0	-
Bedroom 2P	BD00000B	100	0	0	0	-
Bath 2P (1) (1)	BT000008	100	0	0	0	-
Bath 2P (1) (2)	BT000009	100	0	0	0	-
Bath 2P (1) (1)	BT00000A	100	0	0	0	-
Bath 2P (1) (2)	BT00000B	100	0	0	0	-
Bedroom 2B	BD00000C	100	0	0	0	-
Bedroom 2B	BD00000D	100	0	0	0	-
Bath 2P (1)	BT00000C	100	0	0	0	-
Bath 2P (2)	BT00000D	100	0	0	0	-
Bath 3P (1)	BT00000E	100	0.5	7	2	2
Bath 3P (2)	BT00000F	100	0.1	2	1	-
Bedroom 2P	BD00000E	100	0	0	0	-
Bedroom 2P	BD00000F	100	0	0	0	-
Bedroom 1P	BD000010	100	0	0	0	-
Bedroom 1P	BD000011	100	0	0	0	-
kitchen/living 5P (1)	KT00000A	100	0	0	0	-
kitchen/living 5P (2)	KT00000B	100	0	0	0	-
Bedroom 2P	BD000012	100	0	0	0	-
Bedroom 2P	BD000013	100	0	0	0	-
Bathroom 2P	BT000010	100	0	0	0	-
Bathroom 2P	BT000011	100	0	0	0	-
Bedroom 2P	BD000014	100	0	0	0	-
Bedroom 2P	BD000015	100	0	0	0	-
Bathroom 2P (1)	BT000012	100	0	0	0	-
Bathroom 2P (2)	BT000013	100	0	0	0	-
kitchen/living 4P (1)	KT00000C	100	0	0	0	-
kitchen/living 4P (2)	KT00000D	100	0	0	0	-
kitchen/living 4P	5T000002	100	0	0	0	-
Bedroom 2P	5T000020	100	0	0	0	-
Bedroom 2P	5T000021	100	0	0	0	-
Bathroom 4P	5T000022	100	0	0	0	-
Bedroom 2P	5T000003	100	0	0	0	-
kitchen/living 4P	5T000024	100	0	0	0	-
Bedroom 2P	5T000025	100	0	0	0	-
Bathroom 4P	5T000026	100	0	0	0	-
kitchen/living 4P	5T000008	100	0	0	0	-
Bedroom 2P	5T000009	100	0	0	0	-
Bedroom 2P	5T000006	100	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Bathroom 2P	5T00000A	100	0	0	0	-
Kitchen/living 4P	5T00000D	100	0	0	0	-
Bedroom 2P	5T00000E	100	0	0	0	-
Bathroom 2P	5T00000F	100	1.2	14	3	2
Bedroom 2P	5T000001	100	0	0	0	-
Bathroom 2P	5T000013	100	0	0	0	-
Bedroom 2P	5T000016	100	0	0	0	-
Bathroom 2P	5T000017	100	0	0	0	-
Bathroom 2P	5T000018	100	0	0	0	-
Bedroom 2P	5T000015	100	0	0	0	-
kitchen/living 4P	5T000005	100	0	0	0	-
kitchen/living 4P	5T000044	100	0	0	0	-
Bedroom 2P	5T000042	100	0	0	0	-
Bedroom 2P	5T000000	100	0	0	0	-
Bathroom 2P	5T000040	100	0.2	2	1	-
Bathroom 2P	5T000041	100	0	0	0	-
kitchen/living 4P	5T000039	100	0	0	0	-
Bedroom 2P	5T00003D	100	0	0	0	-
Bedroom 2P	5T00003A	100	0	0	0	-
Bathroom 2P	5T000036	100	0	0	0	-
Bathroom 2P	5T00003B	100	0	0	0	-
kitchen/living 4P	5T000030	100	0	0	0	-
Bedroom 2P	5T00002F	100	0	0	0	-
Bathroom 2P	5T000033	100	0.6	10	3	2
Bedroom 2P	5T000035	100	0	0	0	-
Bathroom 2P	5T000031	100	0	0	0	-
Bathroom 2P	5T00000C	100	0	0	0	-
kitchen/living 4P	2N00000C	100	0	0	0	-
Bedroom 2P	2N000010	100	0	0	0	-
Bedroom 2P	2N000011	100	0	0	0	-
Bathroom 2P	2N00000F	100	0	0	0	-
Bathroom 2P	2N00000E	100	0	0	0	-
Bathroom 2P	2N00000D	100	0	0	0	-
Bathroom 2P	2N000014	100	0	0	0	-
Bedroom 2P	2N000015	100	0	0	0	-
Bedroom 2P	2N000016	100	0	0	0	-
kitchen/living 4P	2N000006	100	0	0	0	-

Failed: 0 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
-----------	---------	-------------------	--------------------------------	---------------------------------	--------------------------	------------------

Unoccupied: 141 rooms:

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
Staircase	BS000004	0	0	0	0	-
Staircase	BS00000F	0	0	0	0	-
Access corridor	BS00000D	0	0	0	0	-
GF Bar store	GF000009	0	0	0	0	-
Kitchen store	KT000000	0	0	0	0	-
Access corridor	CC000001	0	0	0	0	-
Access corridor	BS000000	0	0	0	0	-
store room	RC000003	0	0	0	0	-
corridor to toilets	RC000005	0	0	0	0	-
store to reception	RC000006	0	0	0	0	-
GF staircase	GF000011	0	0	0	0	-
GF staircase	GF000003	0	0	0	0	-
GF staircase	GF000005	0	0	0	0	-
GF staircase	GF000006	0	0	0	0	-
staircase	GF000031	0	0	0	0	-
staircase	GF000034	0	0	0	0	-
Cupboard	GF000029	0	0	0	0	-
Hallway	GF000027	0	0	0	0	-
Hallway	GF000023	0	0	0	0	-
cupboard	GF000014	0	0	0	0	-
winter garden	GF00001E	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
hallway	GF000043	0	0	0	0	-
cupboard	GF00003C	0	0	0	0	-
staircase (1)	ST000000	0	0	0	0	-
staircase (1)	ST000001	0	0	0	0	-
Cupboard (1)	CP000000	0	0	0	0	-
Hallway (1)	HL000000	0	0	0	0	-
hallway (1)	HL000001	0	0	0	0	-
cupboard (1)	CP000001	0	0	0	0	-
cupboard	1S000013	0	0	0	0	-
hallway	1S000015	0	0	0	0	-
cupboard	1S000011	0	0	0	0	-
cupboard	HB000006	0	0	0	0	-
hallway	HB000001	0	0	0	0	-
cupboard	HB000008	0	0	0	0	-
riser	CC000008	0	0	0	0	-
cupboard in access corridor	CC000009	0	0	0	0	-
Access corridor	CC00000A	0	0	0	0	-
Laundry store - cupboard	LN000000	0	0	0	0	-
Elevator shaft	CC000002	0	0	0	0	-
Elevator shaft	LV000000	0	0	0	0	-
GF lift shaft	GF00001B	0	0	0	0	-
GF lift shaft	GF000032	0	0	0	0	-
GF access corridor	GF000002	0	0	0	0	-
GF riser	GF000033	0	0	0	0	-
GF lift shaft	GF000035	0	0	0	0	-
GF lift shaft	GF000036	0	0	0	0	-
GF access corridor	GF000015	0	0	0	0	-
GF riser	GF000037	0	0	0	0	-
access corridor	GF00002A	0	0	0	0	-
riser	CC00000C	0	0	0	0	-
lift shaft	CC00000B	0	0	0	0	-
lift shaft	CC00000D	0	0	0	0	-
lift shaft	CC00000E	0	0	0	0	-
lift shaft	CC00000F	0	0	0	0	-
access corridor	GF00002C	0	0	0	0	-
riser	CC000010	0	0	0	0	-
lift shaft	CC000011	0	0	0	0	-
lift shaft	CC000012	0	0	0	0	-
access corridor (1)	CC000006	0	0	0	0	-
riser	CC000013	0	0	0	0	-
lift shaft	CC000014	0	0	0	0	-
lift shaft	CC000015	0	0	0	0	-
access corridor (1)	CC000004	0	0	0	0	-
riser	CC000016	0	0	0	0	-
staircase (1) (1)	ST000002	0	0	0	0	-
staircase (1) (2)	ST000003	0	0	0	0	-
staircase (1) (1)	ST000004	0	0	0	0	-
staircase (1) (2)	ST000005	0	0	0	0	-
Cupboard (1) (1)	CP000002	0	0	0	0	-
Cupboard (1) (2)	CP000003	0	0	0	0	-
Hallway (1) (1)	HL000002	0	0	0	0	-
Hallway (1) (2)	HL000003	0	0	0	0	-
hallway (1) (1)	HL000004	0	0	0	0	-
hallway (1) (2)	HL000005	0	0	0	0	-
cupboard (1) (1)	CP000004	0	0	0	0	-
cupboard (1) (2)	CP000005	0	0	0	0	-
cupboard (1)	CP000006	0	0	0	0	-
cupboard (2)	CP000007	0	0	0	0	-
hallway (1)	HL000006	0	0	0	0	-
hallway (2)	HL000007	0	0	0	0	-
cupboard (1)	CP000008	0	0	0	0	-
cupboard (2)	CP000009	0	0	0	0	-
cupboard (1)	CP00000A	0	0	0	0	-
cupboard (2)	CP00000B	0	0	0	0	-
hallway (1)	HL000008	0	0	0	0	-
hallway (2)	HL000009	0	0	0	0	-
cupboard (1)	CP00000C	0	0	0	0	-
cupboard (2)	CP00000D	0	0	0	0	-
lift shaft (1)	LF000000	0	0	0	0	-
lift shaft (2)	LF000001	0	0	0	0	-

Room Name	Room ID	Occupied days (%)	Criteria 1 (%Hrs Top-Tmax>=1K)	Criteria 2 (Max. Daily Deg.Hrs)	Criteria 3 (Max. DeltaT)	Criteria failing
lift shaft (1)	LF000002	0	0	0	0	-
lift shaft (2)	LF000003	0	0	0	0	-
access corridor (1) (1)	CC00001B	0	0	0	0	-
access corridor (1) (2)	CC00001C	0	0	0	0	-
riser (1)	RS000000	0	0	0	0	-
riser (2)	RS000001	0	0	0	0	-
lift shaft (1)	LF000004	0	0	0	0	-
lift shaft (2)	LF000005	0	0	0	0	-
lift shaft (1)	LF000006	0	0	0	0	-
lift shaft (2)	LF000007	0	0	0	0	-
access corridor (1) (1)	CC00001D	0	0	0	0	-
access corridor (1) (2)	CC00001E	0	0	0	0	-
riser (1)	RS000002	0	0	0	0	-
riser (2)	RS000003	0	0	0	0	-
lift shaft	5T00001B	0	0	0	0	-
lift shaft	5T00001C	0	0	0	0	-
riser	5T00001D	0	0	0	0	-
cupboard	5T00001E	0	0	0	0	-
hallway	5T000023	0	0	0	0	-
cupboard	5T000027	0	0	0	0	-
hallway	5T000028	0	0	0	0	-
5th floor staircase	5T00001F	0	0	0	0	-
5th floor access corridor	5T000004	0	0	0	0	-
5th floor staircase	5T00002A	0	0	0	0	-
lift shaft	5T00002C	0	0	0	0	-
lift shaft	5T00002D	0	0	0	0	-
5th floor access corridor	5T00002B	0	0	0	0	-
riser	5T00002E	0	0	0	0	-
cupboard	5T000007	0	0	0	0	-
hallway	5T00000B	0	0	0	0	-
cupboard	5T000010	0	0	0	0	-
corridor	5T000012	0	0	0	0	-
cupboard	5T000011	0	0	0	0	-
cupboard	5T000019	0	0	0	0	-
hallway	5T00001A	0	0	0	0	-
cupboard	5T000014	0	0	0	0	-
cupboard	5T000043	0	0	0	0	-
hallway	5T00003E	0	0	0	0	-
cupboard	5T00003F	0	0	0	0	-
cupboard	5T000038	0	0	0	0	-
cupboard	5T000037	0	0	0	0	-
hallway	5T00003C	0	0	0	0	-
hallway	5T000034	0	0	0	0	-
cupboard	5T000032	0	0	0	0	-
cupboard	2N000012	0	0	0	0	-
access corridor (1) (1)	CC00001F	0	0	0	0	-
cupboard	2N000017	0	0	0	0	-
hallway	2N000018	0	0	0	0	-
winter garden	WN000000	0	0	0	0	-
corridor	TL000003	0	0	0	0	-