

Lupin House, 11-13 Macklin Street London WC2B 5NH

Responses to comment made by: -

**Sofie Fieldsend Senior Planner - London Borough of Camden on 28<sup>th</sup> November 2022**

## Introduction

This supplementary report is in response to Camden BC's comments received on 2<sup>nd</sup> December 2022 and directly comments against those points made. The comments refer to the following reports as our most recent revisions ("**TPS - Lupin House - TM59 Report - Revision B - 13.10.22**" & "**TPS - Lupin House - TM52 Report - Revision B - 17.10.22**").

## Comments

1. Can you clarify/demonstrate that MV (**mechanical Ventilation**) has been included in the modelling, as notes and previous report contradict this.
  - "**TPS - Lupin House - TM59 Report - Revision B - 13.10.22**" & "**TPS - Lupin House - TM52 Report - Revision B - 17.10.22**" both state the consideration and show the result of using mechanical ventilation with heat recovery (MVHR), this is in line with Part F Building Regulations.
  - The system has been modelled with mechanical ventilation included (MVHR) summer bypass and with opening windows in the facade which open in accordance with TM59.
2. Original report also states modelling shows lighting as high energy but now LED light which is less intensive is shown, reports seem to contradict.
  - Not sure if the correct reports are being referred to but "**TPS - Lupin House - TM59 Report - Revision B - 13.10.22**" & "**TPS - Lupin House - TM52 Report - Revision B - 17.10.22**" do not have any reference that indicates the lighting being proposed is high energy. All references in both reports confirm LED and provide power levels that are commensurate with low-energy LED as will be specified. Lighting in the TM59 report has been modelled at 2W/m<sup>2</sup> and based on the schedules outlined in the TM59 document which is required for compliance.
3. Redo modelling for office, include MNVHR (**mechanical ventilation with heat recovery**), follow Cooling Hierarchy and the new extension should be designed to not overheat through its design, materials and exploration of u values, ventilation and shading (note that external shading is not restricted as it is not grade 2 listed)
  - We have included mechanical ventilation with MVHR which is required to ventilate the deep space office areas which have limited glazing. At the rear, the office glazing is shaded by the balconies and has been modelled as such however overheating is occurring throughout the office including in areas that are a distance away from the glazing. We have followed the cooling hierarchy, we have included glazing shading where possible, we have included exploration of U-values because of the limited windows, deep plan space, internal office gains cooling is required and high-efficiency systems that recover heat in operation are proposed to mitigate these.

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4. Should consider fans and or tempered MNVHR ([Mechanical Ventilation with Heat Recovery](#)) if required for residential before active cooling. Note that we do not expect active cooling in residential developments.”
  - The system has been modelled with mechanical ventilation including (MVHR) summer bypass and with opening windows in the facade which open in accordance with TM59 (30% openable). There are several rooms on the front elevation that fail the TM59 Criteria and assessment and will either require external shading which we understand is not desirable or comfort cooling. We can investigate adding cooling on the MVHR system and are awaiting full manufacturers details to be able to model this may reduce the overheating hours marginally but is not expected to be significant

**Jack Wardle BEng (Hons)**

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