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27 March 2026

Dear David,

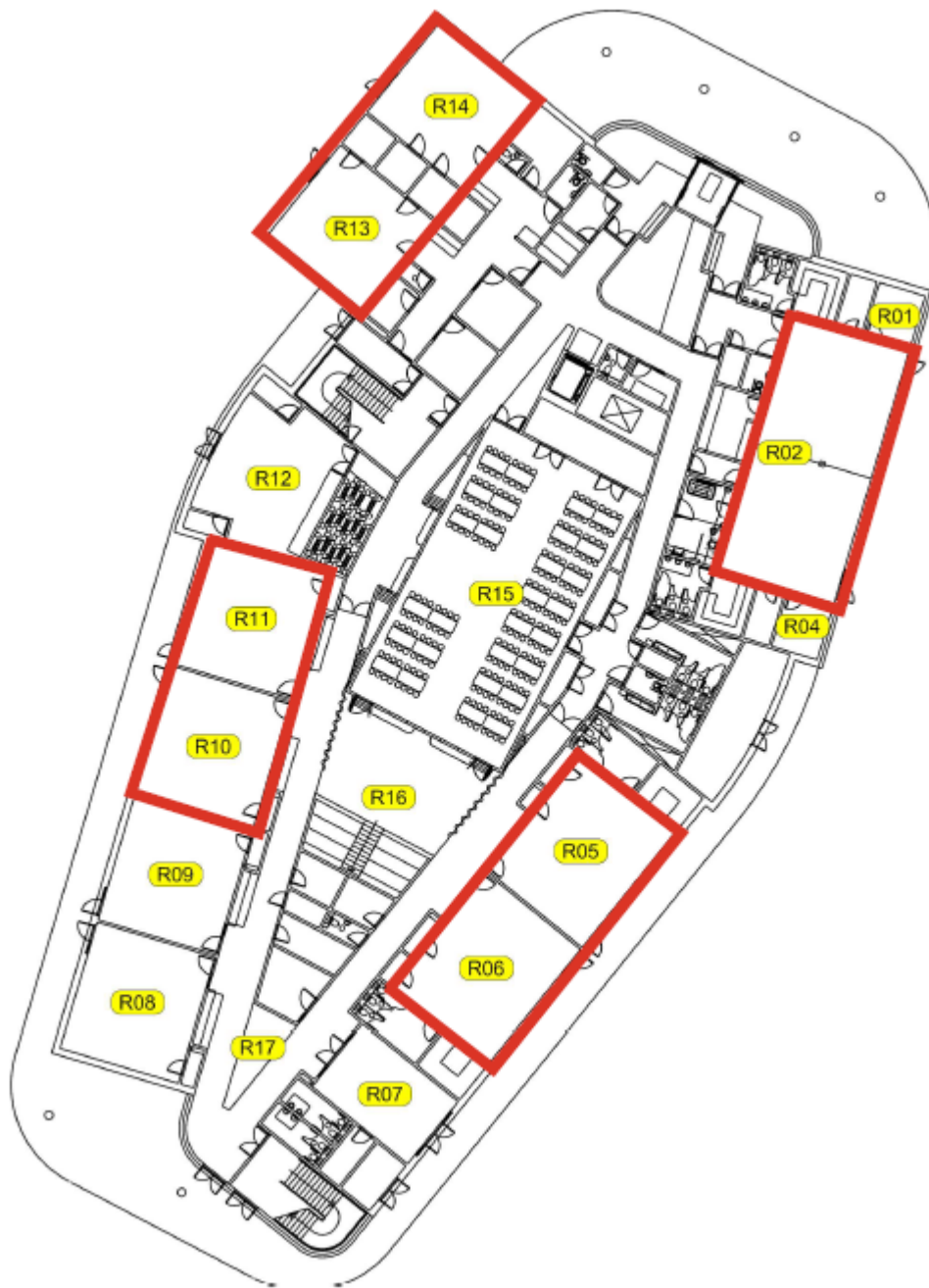
**Re: Daylight testing with canopies to Brookleigh School**

eb7 have been instructed to undertake detailed technical analysis regarding the proposed addition of external canopies to selected rooms on the ground floor of the proposed Brookleigh School development. This testing follows previous assessments in which 80% of the classrooms tested achieved compliant levels of daylight and therefore, the proposals without canopies were compliant with Technical Annex 2E.

Two scenarios have been assessed: one where the canopies are opaque and do not allow any daylight through, and another where the canopies are modelled as transparent glazing, allowing a limited amount of daylight to pass through the overhanging obstruction. A mark-up identifying the rooms located beneath these canopies is provided in Image 2, and the results for each room, including the difference compared to the target, are presented in Image 1.

| Room         | Use                 | Median Illuminance (LX)    |        |        |                            |        |        |
|--------------|---------------------|----------------------------|--------|--------|----------------------------|--------|--------|
|              |                     | Option 1 (opaque canopies) |        |        | Option 2 (glazed canopies) |        |        |
|              |                     | Value                      | Target | Excess | Value                      | Target | Excess |
| Ground floor |                     |                            |        |        |                            |        |        |
| R02          | Nursery Playroom    | 176                        | 300    | -124   | 211                        | 300    | -89    |
| R05          | Reception Classroom | 151                        | 300    | -149   | 183                        | 300    | -117   |
| R06          | Reception Classroom | 151                        | 300    | -149   | 182                        | 300    | -118   |
| R10          | KS1 Classroom       | 184                        | 300    | -116   | 211                        | 300    | -89    |
| R11          | KS1 Classroom       | 160                        | 300    | -141   | 187                        | 300    | -113   |
| R13          | SSC Classroom       | 193                        | 300    | -107   | 226                        | 300    | -74    |
| R14          | SSC Classroom       | 214                        | 300    | -86    | 244                        | 300    | -56    |

*Image 1 - Results table for educational rooms where canopies have been installed above.*



*Image 2 - Ground floor plan – Rooms assessed with canopies highlighted in red*

Our analysis indicates that with the opaque canopies in place, all education rooms where the canopies have been attached, fall below the daylight targets set out in Technical Annex 2E. The retained Spatial Daylight Autonomy (sDA) levels with the opaque canopy in place range from 151–214 lux, below the 300-lux requirement. This would leave the overall compliance at 67%, demonstrably below the requirement for 80% of Basic Teaching Spaces to meet compliance, as defined in Output Specification – Technical Annex 2E.

Whilst, the glazed canopy option performs better, with levels between 182–244 lux, all education spaces with the added canopies remain below the target of 300 Lux.

This reduction is expected, as both options act as a direct obstruction to daylight entering the rooms. Whilst the glazed canopies perform better, daylight still has to pass through an additional layer of glazing,

which in turn has its own transmittance value (in this case modelled at 0.68), resulting in a portion of daylight to be reflected before the remaining light reaches the classrooms.

As such, both canopy options would result in material reductions to daylight provision and lead to deviations from the required standards in each room where the canopies are proposed.

I trust the above provides the information you need at this time, but please do not hesitate to contact me should you need anything further in this regard.

Yours sincerely

For and on behalf of eb7 Limited

Thomas Crundwell

**Surveyor**