

Approved Document O - Simplified Method Report

The Assessment for Land Adjacent to 30 Eggars Field is currently failing the simplified overheating risk assessment for one or more of the following reasons:

- The glazing surface area of the most glazed orientation of the dwelling exceeds the maximum allowable area of glazing.
- The actual free area of all the openings combined is less than the target free area of all the openings combined (as a percentage of the floor area).
- The actual free area of all the openings combined is less than the target free area of all the openings combined (as a percentage of the glazing area)
- The Actual free area of the opening in any or all of the bedrooms is less than the target free area (target is 4.00% of the floor area of the specific bedroom).

Because the assessment does not achieve compliance with Approved Document O, further action is required. Please refer to the above tables, and the accompanying email for further details.

Building and Site Details	
Residential building name/number	Land Adjacent to 30
Street	Eggars Field
Town	Fareham
County	Hampshire
Postcode	GU10 5LD
Proposed building use/type of building	Dwelling
Are there any security, noise or pollution issues?	N/A
Site Details	N/A
Is this building high risk and shading strategy required?	Mod Risk No
Shading strategy included? (Give details)	No shading strategy Included

Results			
	Target	Result	Pass/Fail?
Maximum area of glazing (%)	18	4.13	Pass
Maximum area of glazing in the most glazed room (%)	37	14.84	Pass
Total minimum free area as % floor area (m ²)	13.83	12.12	Fail
Total minimum free area % glazing area (m ²)	7.85	12.12	Pass
The greater of the minimum free area(floor area or glazing area) should pass - Highlighted yellow			
Bed 1 min free area (m ²)	0.37	1.45	Pass
Bed 2 min free area (m ²)	0.51	0.75	Pass
Bed 3 min free area (m ²)	0.50	1.45	Pass
Bed 4 min free area (m ²)	0.67	2.68	Pass
Bed 5 min free area (m ²)	0.00	0.00	Pass
Dwelling overall result		Fail	
Designer's declaration			
Designer's name			
Designer's organisation			
Designers email			
Designers contact number			
Designer's signature			
Registration number (if applicable)			
Date of design			

Approved Document O - Simplified Method Frequently Used Terms

Cross-ventilation The ability to ventilate using openings on opposite façades of a dwelling. Having openings on façades that are not opposite is not allowing cross-ventilation, e.g. in a corner flat.

Effective area The area through which air flows after the resistance of airflow has been taken into account.

Equivalent area A measure of the aerodynamic performance of an opening. It is the area of a sharp-edged circular orifice through which air would pass at the same volume or rate, under an identically applied pressure difference, as through the opening under consideration.

Free area The geometric open area of a ventilation opening. This area assumes a clear sharp-edged orifice that would have a coefficient of discharge (Cd) of 0.62.

Floor area The area of the residential unit, measured to the internal face of the perimeter walls at each floor level.

Glazing area The area of transparent material, not including the window frame.

Dynamic thermal modelling A method of building modelling that predicts the internal conditions and energy demands of a building at short time intervals using weather data and building characteristics.