


## Approved Document Part O Simplified overheating Calculations



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Calculator 2a-Minimum free area for the whole dwelling

| Free area or equivalent area of windows | 21.66 |
| :--- | ---: |
| Floor area of Whole dwelling | 197.92 |
| Glazing area of whole dwelling | 28.5275 |
| Free Area as a \% of floor area |  |
| Free Area as a \% of the glazing area | $10.94382 \%$ |
|  | $75.92674 \%$ |

Calculator 2b-Minimum free area for the bedrooms

## Bedroom 1

Free area or equivalent area of window

Free area or equivalent area of windows for the bedroom

Floor area of the bedroom
for the bedroom

Floor area of the bedroom

## Bedroom 2

Free area or equivalent area of windows for the bedroom

Floor area of the bedroom
\% of floor area
target is > than 9\% of the floor area target is > than 55\% of the glazed area
$\square$

$\square$



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Bedroom - Equivalent Free Area

|  | Window | Window | Glazing | Glazing | Glazing | Opening | Equivilent Area |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Reference | Orientation | Height | Width | Area | Angle | (tables D1-D9) |
| Bedroom 1 |  |  |  |  |  |  |  |
| 1 |  | South | 0.95 | 0.75 | 0.7125 | 90 | 0.4 |
| 2 |  | South |  |  | 0.47 | 90 | 0.65 |
| 3 |  | South |  |  | 0.47 | 90 | 0.65 |
| 4 |  | South |  |  | 0.47 | 90 | 0.65 |
| 5 |  | North | 0.95 | 0.75 | 0.7125 | 90 | 0.4 |
| 6 |  | North | 0.95 | 0.75 | 0.7125 | 90 | 0.4 |
|  |  |  |  |  | 2.835 |  | 2.75 |
| Bedroom 2 |  |  |  |  |  |  |  |
| 1 |  | South | 0.95 | 0.75 | 0.7125 | 90 | 0.4 |
| 2 |  | South | 0.95 | 0.75 | 0.7125 | 90 | 0.4 |
| 3 |  | West |  |  | 0.47 | 90 | 0.65 |
| 4 |  | West |  |  | 0.47 | 90 | 0.65 |
| 5 |  |  |  |  |  |  |  |
|  |  |  |  |  | 2.365 |  | 2.1 |
| Bedroom 3 |  |  |  |  |  |  |  |
| 1 |  | West | 0.95 | 0.75 | 0.7125 | 90 | 0.57 |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
|  |  |  |  |  | 0.7125 |  | 0.57 |

Bedroom 4
1
2
3
4
5

The Equivalent Areas have also been Derived using Dr B Jones Window Discharge Coefficient calculator
The window discharge coefficient calculator was developed by
Dr Benjamin Jones of Nottingham University.
And is a copy of the calculator found on the governement website here.

