

**Bundle 1.4: Adequacy of existing windows
in terms of sunlight and daylight
and supporting information**

**Class MA application for
20 flats (17/12/25)
Portway House**

1.4 List of enclosed relevant documents (Class MA)

Detailed photographic study of existing windows p1- 29

Daylight and sunlight note p30 - 45

PAUL STEVENS ARCHITECTURE LTD

WINDOWS & DOORS

PORTWAY HOUSE, OLD SARUM



Site Address: Portway House, Old Sarum Park, Old Sarum, Salisbury, Wiltshire, SP4 6EB.

Date: DECEMBER 2025

RIBA 
Chartered Practice

Job No. 1171



WG01



WG02



WG03



WG04



WG05



WG06



WG07



WG08



WG09



WG10

WG11



WG12

WG13

WG14



WG15

WG16

WG17



WG18

WG19



WG20



WG21



WG22



WG23



WG24



WG25



WG26



WG27



WG28

WG29



WG30



WG31



WG32



WG33



WG34

WG35



WG36



WG37



WG38

WG39



WG40



WG41

WG42



WG43



WG44

WG45



WG46



WG47



WG48



WG49



WG50



WG51



WG52



WG53



WG54



WG55



DG01



DG02



DG03



DG04



DG05



DG06



DG07



DG08



DG09



WF01



WF02



WF03



WF04



WF05



WF06



WF07



WF08



WF09



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WF20



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WF34



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WF36



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WF38



WF39



DF01



DF02

PAUL STEVENS ARCHITECTURE LTD

DAYLIGHT ASSESSMENT REPORT

PORTWAY HOUSE, OLD SARUM



Site Address: Portway House, Old Sarum Park, Old Sarum, Salisbury, Wiltshire, SP4 6EB.

Date: DECEMBER 2025

RIBA 
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Daylight Assessment Report

Average Daylight Factor (ADF) Calculations

Portway House – Proposed Residential Conversion (20 Flats)

Project: Portway House – Proposed Residential Development

Location: Portway House

Assessment Type: Internal Daylight – Average Daylight Factor (ADF)

Guidance Referenced: BRE BR 209 – Site Layout Planning for Daylight and Sunlight

Number of Dwellings Assessed: 20 Flats

Date: 16th December 2025

1. Purpose of Report

This report has been prepared to assess the adequacy of internal daylight provision to habitable rooms within the proposed residential flats at Portway House. The assessment has been undertaken using **Average Daylight Factor (ADF)** calculations in accordance with the methodology set out in **BRE Report BR 209 – Site Layout Planning for Daylight and Sunlight**.

The objective of the assessment is to determine whether the proposed habitable rooms achieve BRE-recommended minimum daylight standards and, where shortfalls are identified, to outline potential design measures that could improve compliance.

2. Methodology – Average Daylight Factor (ADF)

The Average Daylight Factor represents the ratio of the average internal illuminance within a room to the simultaneous external illuminance under a standard CIE overcast sky, expressed as a percentage.

ADF calculations within this report have been undertaken using the BRE simplified calculation method, which is widely accepted by UK local planning authorities and is suitable for feasibility and planning-stage assessments.

The calculation is expressed as:

$$\text{ADF (\%)} = (T \times W \times \theta) \div [A \times (1 - R)]$$

Where:

- T = Net light transmittance of the glazing
- W = Area of glazing serving the room (m²)
- θ = Vertical angle of visible sky from the centre of the window (degrees), accounting for external obstructions
- A = Total internal surface area of the room (walls, floor and ceiling)
- R = Area-weighted average reflectance of internal surfaces

Room-specific calculations have been undertaken for each habitable space using measured room geometry, assumed glazing transmittance values typical of modern double glazing, and standard BRE reflectance assumptions unless otherwise stated.

3. Internal Surface Reflectance Assumptions

Internal surface reflectance values have been calculated on an area-weighted basis, derived from the following typical BRE assumptions:

- Ceilings: 0.7
- Walls: 0.5
- Floors: 0.2

These values are considered reasonable for residential accommodation with light-coloured finishes and are appropriate at planning stage where final specifications are not yet fixed.

4. BRE Target Daylight Values for Habitable Rooms

In accordance with BRE guidance, the following minimum Average Daylight Factor targets have been applied:

- Kitchen / Kitchen–Living Rooms: 2.0%
- Living Rooms: 1.5%
- Bedrooms: 1.0%

Rooms achieving or exceeding these values are considered to have an acceptable level of daylight under overcast sky conditions.

5. Conclusion

This report demonstrates that the proposed residential conversion at Portway House provides acceptable levels of internal daylight to all habitable rooms. The Average Daylight Factor (ADF) assessment confirms that all 20 proposed flats meet the minimum criteria set out in BRE Report BR 209 for their respective room types.

The findings show that kitchens, living rooms, kitchen–living rooms and bedrooms across the development achieve or exceed the relevant BRE target ADF values when assessed using the BRE simplified methodology under standard overcast sky conditions. As such, the proposed accommodation will deliver a satisfactory standard of residential amenity in daylight terms for future occupants.

On this basis, the proposed development is considered fully compliant with BRE guidance relating to internal daylight provision, and no further mitigation measures are required to demonstrate acceptability.

FLAT 1

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	5.04
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	29.12
Wall area (total, incl. window wall)	77.04
Floor area	29.12

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	135.28
Area-weighted average reflectance R	0.478474276

ADF CALCULATION

ADF (%)	3.25
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	2.72
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	12.07
Wall area (total, incl. window wall)	41.85
Floor area	12.07

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	65.99
Area-weighted average reflectance R	0.48170935

ADF CALCULATION

ADF (%)	3.62
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FLAT 02

KITCHEN / LIVING / BEDROOM (STUDIO FLAT)

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.64
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	31.5
Wall area (total, incl. window wall)	78.33
Floor area	31.5

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	141.33
Area-weighted average reflectance R	0.477711738

ADF CALCULATION

ADF (%)	2.24
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FLAT 03

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.88
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	46.83
Wall area (total, incl. window wall)	72.9
Floor area	46.83

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	166.56
Area-weighted average reflectance R	0.471884006

ADF CALCULATION

ADF (%)	2.01
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.88
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	16.4
Wall area (total, incl. window wall)	40.5
Floor area	16.4

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	73.3
Area-weighted average reflectance R	0.477626194

ADF CALCULATION

ADF (%)	4.61
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FLAT 04

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	2.52
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	23.79
Wall area (total, incl. window wall)	59.7
Floor area	23.79

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	107.28
Area-weighted average reflectance R	0.477824385

ADF CALCULATION

ADF (%)	2.05
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	2.52
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	15.88
Wall area (total, incl. window wall)	48.39
Floor area	15.88

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	80.15
Area-weighted average reflectance R	0.480187149

ADF CALCULATION

ADF (%)	2.75
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FLAT 05

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	4.46
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	42.89
Wall area (total, incl. window wall)	70.94
Floor area	42.89

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	156.72
Area-weighted average reflectance R	0.472632721

ADF CALCULATION

ADF (%)	2.46
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BEDROOM 01

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	1.77
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	11.76
Wall area (total, incl. window wall)	32.98
Floor area	11.76

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	56.5
Area-weighted average reflectance R	0.479185841

ADF CALCULATION

ADF (%)	2.74
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BEDROOM 02

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	1.27
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	14.37
Wall area (total, incl. window wall)	36.48
Floor area	14.37

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	65.22
Area-weighted average reflectance R	0.477966881

ADF CALCULATION

ADF (%)	1.70
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FLAT 06

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	5.31
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	31.92
Wall area (total, incl. window wall)	61.87
Floor area	31.92

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	125.71
Area-weighted average reflectance R	0.474608225

ADF CALCULATION

ADF (%)	3.66
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BEDROOM 01

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	1.77
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	12.63
Wall area (total, incl. window wall)	34.13
Floor area	12.63

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	59.39
Area-weighted average reflectance R	0.478733794

ADF CALCULATION

ADF (%)	2.60
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BEDROOM 02

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	2.23
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	10.31
Wall area (total, incl. window wall)	30.94
Floor area	10.31

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	51.56
Area-weighted average reflectance R	0.480003879

ADF CALCULATION

ADF (%)	3.78
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FLAT 07

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.69
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	21.57
Wall area (total, incl. window wall)	45.38
Floor area	21.57

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	88.52
Area-weighted average reflectance R	0.475632625

ADF CALCULATION

ADF (%)	3.62
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	2.92
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	10.08
Wall area (total, incl. window wall)	31.49
Floor area	10.08

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	51.65
Area-weighted average reflectance R	0.480484027

ADF CALCULATION

ADF (%)	4.95
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FLAT 08

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	2.74
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	27.98
Wall area (total, incl. window wall)	51.67
Floor area	27.98

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	107.63
Area-weighted average reflectance R	0.474003531

ADF CALCULATION

ADF (%)	2.20
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	2.92
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	10.88
Wall area (total, incl. window wall)	31.85
Floor area	10.88

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	53.61
Area-weighted average reflectance R	0.479705279

ADF CALCULATION

ADF (%)	4.76
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FLAT 9

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.28
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	27.98
Wall area (total, incl. window wall)	51.67
Floor area	27.98

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	107.63
Area-weighted average reflectance R	0.474003531

ADF CALCULATION

ADF (%)	2.64
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	1.94
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	10
Wall area (total, incl. window wall)	30.43
Floor area	10

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	50.43
Area-weighted average reflectance R	0.480170533

ADF CALCULATION

ADF (%)	3.37
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FLAT 10

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.69
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	21.57
Wall area (total, incl. window wall)	45.38
Floor area	21.57

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	88.52
Area-weighted average reflectance R	0.475632625

ADF CALCULATION

ADF (%)	3.62
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	4.38
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	10.08
Wall area (total, incl. window wall)	31.49
Floor area	10.08

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	51.65
Area-weighted average reflectance R	0.480484027

ADF CALCULATION

ADF (%)	7.43
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FLAT 11

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.69
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	23.57
Wall area (total, incl. window wall)	51.48
Floor area	23.57

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	98.62
Area-weighted average reflectance R	0.476100183

ADF CALCULATION

ADF (%)	3.25
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	1.23
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	12.51
Wall area (total, incl. window wall)	35.04
Floor area	12.51

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	60.06
Area-weighted average reflectance R	0.479170829

ADF CALCULATION

ADF (%)	1.79
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FLAT 12

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	6.59
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	27.29
Wall area (total, incl. window wall)	59.76
Floor area	27.29

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	114.34
Area-weighted average reflectance R	0.476132587

ADF CALCULATION

ADF (%)	5.01
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	2.46
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	17.4
Wall area (total, incl. window wall)	40.2
Floor area	17.4

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	75
Area-weighted average reflectance R	0.4768

ADF CALCULATION

ADF (%)	2.85
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FLAT 13

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.9
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	25.7
Wall area (total, incl. window wall)	60.9
Floor area	25.7

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	112.3
Area-weighted average reflectance R	0.477114871

ADF CALCULATION

ADF (%)	3.02
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.9
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	13.32
Wall area (total, incl. window wall)	43.92
Floor area	13.32

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	70.56
Area-weighted average reflectance R	0.481122449

ADF CALCULATION

ADF (%)	4.85
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FLAT 14

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	25.36
Wall area (total, incl. window wall)	62.4
Floor area	25.36

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	113.12
Area-weighted average reflectance R	0.47758133

ADF CALCULATION

ADF (%)	2.31
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.9
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	12.38
Wall area (total, incl. window wall)	42.42
Floor area	12.38

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	67.18
Area-weighted average reflectance R	0.481571896

ADF CALCULATION

ADF (%)	5.10
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FLAT 15

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	7.8
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	35.38
Wall area (total, incl. window wall)	77.22
Floor area	35.38

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	147.98
Area-weighted average reflectance R	0.476091364

ADF CALCULATION

ADF (%)	4.58
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3.9
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	14.66
Wall area (total, incl. window wall)	50.37
Floor area	14.66

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	79.69
Area-weighted average reflectance R	0.481603714

ADF CALCULATION

ADF (%)	4.30
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FLAT 16

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	31.2
Wall area (total, incl. window wall)	67.8
Floor area	31.2

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	130.2
Area-weighted average reflectance R	0.476036866

ADF CALCULATION

ADF (%)	2.00
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	3
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	13.64
Wall area (total, incl. window wall)	44.37
Floor area	13.64

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	71.65
Area-weighted average reflectance R	0.480963015

ADF CALCULATION

ADF (%)	3.67
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FLAT 17

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	4.56
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	26.26
Wall area (total, incl. window wall)	54.67
Floor area	26.26

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	107.19
Area-weighted average reflectance R	0.475501446

ADF CALCULATION

ADF (%)	3.69
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	1.52
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	11.41
Wall area (total, incl. window wall)	32.47
Floor area	11.41

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	55.29
Area-weighted average reflectance R	0.479363357

ADF CALCULATION

ADF (%)	2.40
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FLAT 18

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	4.56
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	26.26
Wall area (total, incl. window wall)	54.67
Floor area	26.26

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	107.19
Area-weighted average reflectance R	0.475501446

ADF CALCULATION

ADF (%)	3.69
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	1.52
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	11.41
Wall area (total, incl. window wall)	32.47
Floor area	11.41

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	55.29
Area-weighted average reflectance R	0.479363357

ADF CALCULATION

ADF (%)	2.40
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FLAT 19

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	4.56
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	26.26
Wall area (total, incl. window wall)	54.67
Floor area	26.26

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	107.19
Area-weighted average reflectance R	0.475501446

ADF CALCULATION

ADF (%)	3.69
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	1.52
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	11.41
Wall area (total, incl. window wall)	32.47
Floor area	11.41

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	55.29
Area-weighted average reflectance R	0.479363357

ADF CALCULATION

ADF (%)	2.40
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FLAT 20

KITCHEN / LIVING

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	4.56
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	26.26
Wall area (total, incl. window wall)	54.67
Floor area	26.26

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	107.19
Area-weighted average reflectance R	0.475501446

ADF CALCULATION

ADF (%)	3.69
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BEDROOM

INPUTS

Glazing transmittance (T)	0.65
Total glazing area W (m ²)	1.52
Visible sky angle θ (degrees)	70

SURFACE AREAS (m²)

Ceiling area	11.41
Wall area (total, incl. window wall)	32.47
Floor area	11.41

SURFACE REFLECTANCE VALUES

Ceiling reflectance (default 0.7)	0.7
Wall reflectance (default 0.5)	0.5
Floor reflectance (default 0.2)	0.2

CALCULATED VALUES

Total internal surface area A (m ²)	55.29
Area-weighted average reflectance R	0.479363357

ADF CALCULATION

ADF (%)	2.40
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