



# 11 Murray Street,

## London, NW1

### Internal Daylight Assessment

Job No: 5937

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## 1.0 Introduction

- 1.1 This internal daylight assessment has been prepared to support an application for the proposed works at 11 Murray Street, London NW1.
- 1.2 The report assesses the proposals in respect of daylight matters within habitable rooms in the proposed scheme, having regard to industry standard guidance.
- 1.3 The report concludes that the proposal is acceptable and in accordance with planning policy requirements in relation to daylight for those rooms assessed.
- 1.4 There is no existing specific National Planning Policy relating to the prospective impacts of developments on daylight and sunlight on their surrounding environment.
- 1.5 However, the BRE Report 'Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice' (3<sup>rd</sup> edition, 2022) is the established National guidance to aid the developer to prevent and/or minimise the impact of a new development on the availability of daylight within new proposals.
- 1.6 It has been developed in conjunction with daylight and sunlight recommendations in BS EN 17037: 2018+A1:2021 (with UK Annexe): 'Daylight in Buildings'
- 1.7 This reference document is accepted as the authoritative work in the field on daylight, sunlight and overshadowing and is specifically referred to in many Local Authorities' planning policy guidance for daylighting. The methodology therein has been used in numerous lighting analyses and the standards of permissible reduction in light are accepted as the industry standards.

## 2.0 Project Summary

- 2.1 The proposal site is 11 Murray Street, NW1, and is occupied by a terraced 3-4 storey building used for residential purposes.
- 2.2 The proposed works involves the conversion of the existing office space at ground floor and basement into a 2-bedroom residential flat.
- 2.3 The developer wishes to ensure that the new dwellings will receive sufficient daylight for their intended use, in excess of the minimum values prescribed by BS EN 17037: 2018+A1:2021
- 2.4 2D CAD drawings have been provided to us by the design team. These have been used to construct a 3D analysis model in order to assess the internal daylight levels within each room.
- 2.5 Computer simulation modelling has been used to produce the results, presented below.



Site Location

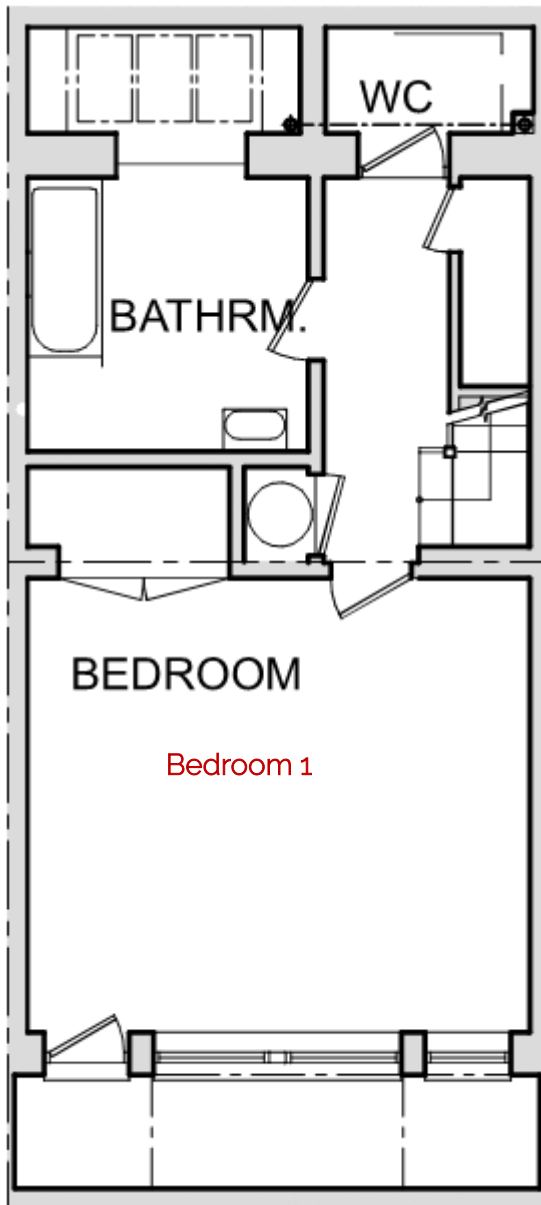
## 3.0 Methodology

- 3.1 This BRE and BS EN 17037 guidance allows for two alternative methods to assess daylight within new dwellings. This report uses the following method:
- Target Daylight Factor ( $DF_T$ )
- 3.2 The  $DF_T$  method is a complex and representative calculation to determine natural internal luminance.
- 3.3 It takes into account such factors as window size, number of windows available to the room, room size and layout, room surface reflectance, and the angle of visible sky reaching the window.
- 3.4 The calculations have assumed a white ceiling, cream walls and mid-grey carpet or wooden floor using reflectance values taken from the BS EN 170437 Guidance.
- 3.5 As this is a conversion scheme, it falls under the category of "hard to light" dwellings and therefore an alternative target can be used. The minimum  $DF_T$  values for various UK locations and room types are provided below:

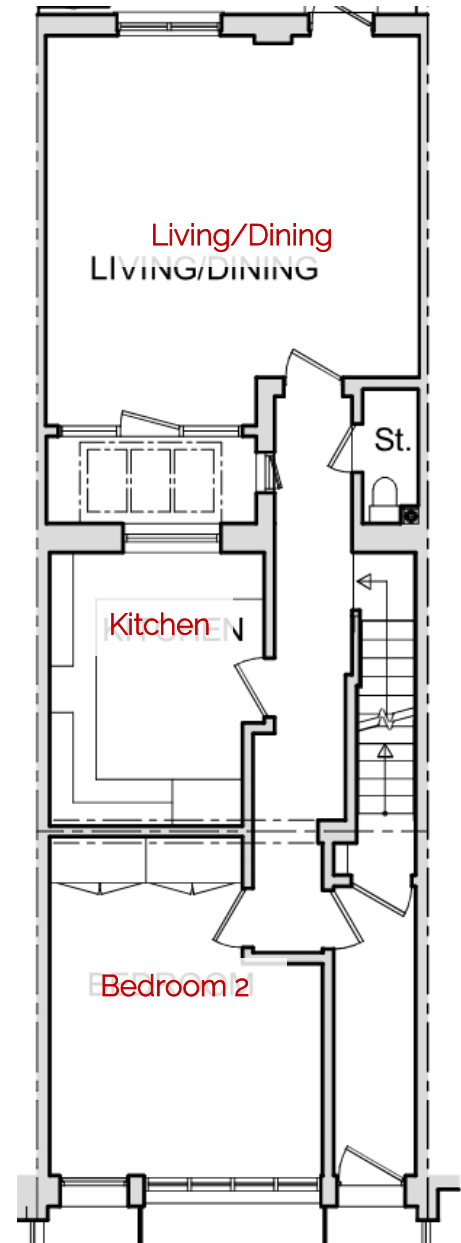
Table C3 – Target daylight factors ( $D_r$ ) to achieve over at least 50% of the assessment grid in UK domestic habitable rooms with vertical and/or inclined daylight apertures			
Location	$D_r$ for 100 lx (Bedroom)	$D_r$ for 150 lx (Living room)	$D_r$ for 200 lx (Kitchen)
St Peter (Jersey)	0.6%	0.9%	1.2%
London (Gatwick Airport)	0.7%	1.1%	1.4%
Birmingham	0.6%	0.9%	1.2%
Hemsby (Norfolk)	0.6%	0.9%	1.3%
Finningley (Yorkshire)	0.7%	1.0%	1.3%
Aughton (Lancashire)	0.7%	1.1%	1.4%
Belfast	0.7%	1.0%	1.4%
Leuchars (Fife)	0.7%	1.1%	1.4%
Oban	0.8%	1.1%	1.5%
Aberdeen	0.7%	1.1%	1.4%

- 3.6 It is deemed by the guidance that if the minimum  $DF_T$  criteria are met, then the occupiers of the dwelling will have sufficient daylight. As can be seen from the results below that all assessed habitable rooms meet and exceed the minimum levels of internal daylight.

## 4.0 Room Schedules



Basement as Proposed



Ground Floor as Proposed



5.0 Daylight Results

Minimum Target Daylight Factor				
Floor	Room	Required $DF_T$ Over 50% of Room Area	Area Of Room Receiving Required $DF_T$	Meets Standards?
G	Living/Dining	1.1%	77.9%	Yes
G	Kitchen	1.4%	62.8%	Yes
B	Bedroom 1	0.7%	100.0%	Yes
G	Bedroom 2	0.7%	72.7%	Yes

## 6.0 Conclusions

- 6.1 The proposed conversion of 11 Murray Street, NW1 has been assessed for internal daylight levels using the Target Daylight Factor ( $DF_T$ ) test as prescribed by the BRE guidance and BS EN 17037:2018.
- 6.2 The design team has endeavoured to ensure that the proposed habitable rooms have levels of natural light in excess of the minimum standards prescribed by the standards.
- 6.3 This has been successfully achieved, as demonstrated by the positive results presented within this report.
- 6.4 The assessed rooms meet the recommendations using the  $DF_T$  test.
- 6.5 This means the future occupants will enjoy a well-lit environment, with reduced reliance on artificial lighting.
- 6.6 It is therefore the conclusion of this report that the proposals meet the guidance levels for daylight and are therefore acceptable in planning terms.





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