

# Daylight Assessment

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Daylight Assessment for the single storey rear extension at the above address.

## **Site Analysis:**

- Begin by assessing the existing conditions of the site, including the orientation of the existing building, the location of neighbouring structures, and any potential obstructions to daylight.

## **Design Considerations:**

- Determine the design goals for the extension, such as the purpose of the space and the desired amount of natural light.

## **Orientation:**

- Identify the cardinal orientation of the extension (north, south, east, or west) to understand how sunlight will interact with the new structure.

## **Windows and Glazing:**

- Specify the size, type, and location of windows and glazing in the extension. Consider the use of larger, south-facing windows to maximise natural light.

## **Daylight Factor:**

- Calculate the daylight factor, which measures the amount of natural light inside a space. This is typically done using computer software like Radiance or by a lighting consultant. A higher daylight factor indicates better natural lighting.

## **Shading and Overhangs:**

- Consider the use of shading devices, such as awnings or overhangs, to control direct sunlight and prevent overheating in the space.

## **View Analysis:**

- Assess the views from the extension, as they can affect the overall experience of the space. Aim to frame desirable views while minimising unsightly ones.

## **Daylight and Sunlight Modeling:**

- Use computer modelling or simulation tools to visualise how daylight and sunlight will penetrate the space at different times of the day and year. This can help optimise window placements and sizes.

## **Regulations and Standards:**

- Ensure compliance with local building regulations and standards related to daylight and sunlight provision, as these can vary by location.

## **Daylight and Energy Efficiency:**

- Consider how the introduction of natural light affects energy efficiency. Well-designed daylighting can reduce the need for artificial lighting and heating, lowering energy costs.

## **Documentation:**

- Record all findings, calculations, and design decisions in a detailed report, which can be included in your planning application.

## **Consultation:**

- If necessary, consult with a daylight specialist or architect to refine your assessment and ensure that your extension meets all requirements.