

# Drainage Detail Report for Garden Room Project: 250141

Garden Room Installation Location: 91 Reading Road. Woodley. RG5 3AE

Client's Name : Fisher

Date: 17/03/2025

**Introduction:** This report outlines the proposed drainage strategy for the garden room associated with the above project. The approach has been designed to efficiently manage rainwater runoff in an environmentally sustainable manner, in accordance with planning requirements.

**Drainage Strategy:** To manage roof drainage effectively, a Sedum roof system will be installed. The Sedum roof provides multiple benefits, including natural rainwater absorption, reduction of surface water runoff, and enhancement of biodiversity. Rainwater from the garden room roof will be collected and directed as follows:

## Water Butts Collection System

Two water butts will be installed at suitable locations along the garden room's guttering system to collect rainwater. The stored water will be used for general irrigation purposes, including watering the garden flower beds and other greenery on the property.

## Raised Flower Holder Irrigation

A portion of the rainwater will be directed through a raised flower holder at one end of the garden room, supporting plant growth and natural water retention.

## Excess Water Management:

Any excess water from the water butts will be directed into the main house's drainage system to ensure no overflow or surface water accumulation occurs.

The connection to the existing drainage system will comply with local regulations to prevent any risk of flooding or waterlogging.

**Environmental Benefits:** The proposed drainage approach ensures the following: Reduced Surface Water Runoff: The Sedum roof and water collection system help in controlling water discharge.

**Sustainable Water Usage:** Collected rainwater will be repurposed for irrigation, reducing dependence on the main water supply.

**Biodiversity Support:** The Sedum roof and flower holder encourage local wildlife and plant growth.

**Conclusion:** The proposed drainage solution aligns with sustainable urban drainage principles and ensures that rainwater from the garden room roof is effectively managed. This system will provide both functional and environmental benefits while preventing any adverse impact on the surrounding area