

PROJECT
Salthouse

LOCATION
North Norfolk Coast

CLIENT
Private Residence

ARCHITECT
Michael Jewitt

INSTALLER
Bridgman & Bridgman

SIZE
69m²

ROOF PITCH
47 degrees

OPTIGRUN SYSTEM
Type N Anti-slip Solution

COMPLETED
2020



PROJECT OVERVIEW

This private residence was originally designed by the owner with a roof slope of 52.5°. Optigrun provided detailed technical assistance to find a green roof solution that would work on such a steep pitch, with the design being adjusted to a pitch of 47°.

The solution incorporated a structured storage fleece SSV800 between waterproofing layer and substrate to store water and provide drainage and Type N anti-slip system comprising base netting and sills. The SSV800 layer was laid across the entire roof followed by the Type N netting. Because the length of slope was the same on both sides of the roof the net was laid from eaves to eaves without needing to be fixed. The anti-slip sills were then clipped to the netting in a staggered pattern.

The anti-slip system was then covered with extensive substrate and a pre-cultivated sedum vegetation mat. An Optigrun TSK channel system was laid at the base of both roof slopes to accept and direct excess water to the roof outlets. At the outlets, the channel was connected to an Optigrun inspection chamber.

CHALLENGES

- Steep pitched sedum roof requirement and the need to prevent slippage of the substrate and vegetation mat.
- Dealing with drainage run off at the base of the slope.
- The North Norfolk sea front location and weather conditions such as wind uplift

