

Project Report

Eden project, St. Austell, Cornwall 



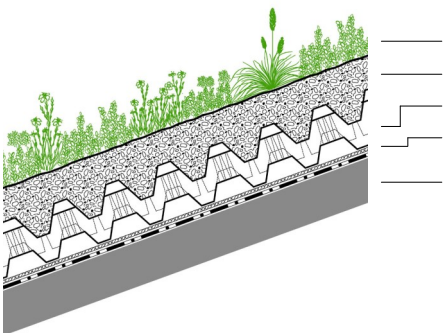
The world's largest greenhouses make Eden project a popular visitor attraction.

Conception

Eden project is a famous visitor attraction situated in Cornwall. The project is located in a huge closed-down surface pit near St. Austell. It is renowned for the two world's largest greenhouses, so called biomes, one simulating Mediterranean environment and the other housing the largest indoor rainforest in the world. The greenhouses are linked up by a grass-roofed building that serves as the entrance to both Biomes and the Eden kitchen

facilities. Due to its wave-like design and the higher substrate level needed for grass, this green roof required a ZinCo system build-up for pitched roofs using Floraset® FS 100 as a drainage element. FS 100 interlocks well with the substrate layer due to its profiled design and studs facing upwards preventing the substrate from sliding and at the same time distributing the shear forces safely into the eaves or additional shear barriers.

System Build-up



Pre-cultivated turf
System Substrate
Floraset® FS 100
Protection Mat SSM 45
Roof construction with
root resistant waterproofing



The grass-roofed building links the rainforest biome with the Mediterranean biome.



The grass-roofed link building not only serves as the entrance to both biomes....

Project Data

Area: ca. 1400 m²

Construction Year: 2001

Architect/Design:
Grimshaw Architects, London

Green Roof System Provider:
ZinCo

System Build-up: "Pitched Green Roof"
with Floraset® FS 100

Coordinates:
50°21'42.7"N 4°44'38.6"W

Installation



The installation of Floraset® FS 100 on pitched roofs prevents the substrate from sliding due to its profiled design. Rolled sod was used for quick covering.



...but also houses the Eden kitchen and other visitor facilities.

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