Project Report Steep Pitched Green Roof, Escaldes-Engordany, Andorra



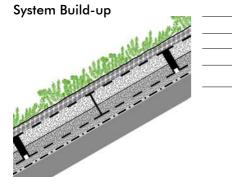


Residential complex built in the Catalan-Pyrenean architecture style in the resort of Escaldes-Engordany in the Pyrenees.

Conception

After working with a relatively inexperienced installer at the beginning, the owner and the architect came to realize during the construction phase, that an experienced specialist had to be involved if the vegetation was to endure this harsh mountain climate. The experts of ZinCo's long-time roof gardener partner Jardinatura S.L. redesigned the green roof buildup from scratch. Finally the decision was made for the system build-up "Steep

Pitched Green Roof". The Protection Mat WSM 150 and the ZinCo Georaster®-Elements, filled with the system substrate "Heather with Lavender-Light" were installed on a root resistant waterproofing. The plant selection meets the requirements of the local climate and consists of different types of Sedum as well as Iris lutescens, Iris palida, Festuca glauca, Gaura lindheimeri. Drip irrigation has been installed for critical periods.



Plant layer

System Substrate "Heather with Lavender-Light" Georaster® Protection Mat WSM 150

Roof construction with root resistant waterproofing

Project Data

Area: ca. 70 m²

Construction Year: 2011

Architect/Design: Stefano Colli, Barcelona

Landscape architect: Josep Farriol

Contractor: Jardinatura S.L., Terrassa

System Build-up: "Steep Pitched Green Roof" with **Georaster**[®]

Coordinates: 42°30'58.03"N 1°32'28.31"E



Despite the alpine mountains of Andorra, with their frequent rainfalls, the roof gardeners decided to install a drip irrigation.



The difficulty for the roof gardeners was the professional handling of shear forces on this steep roof area



The drip irrigation makes sure that the roof retains its green character even during hot summer months



The green roof with its plant diversity mitigates the severity of the bare stone facades.



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