

Project Report

Underground Garage, Madrid



The acacia avenue provides a cool and pleasant atmosphere.

Project Data

Area: ca. 1.700 m²

Construction Year: 1992

Architect/Design:
José Martínez Sarandeses, Madrid

Landscape architect:
María Medina, Madrid

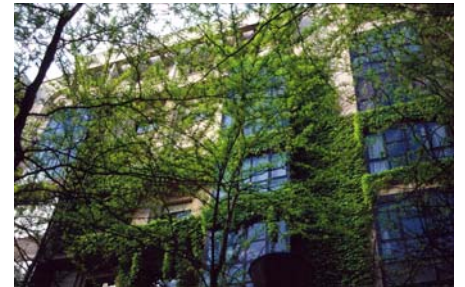
Contractor:
Texsa S.A., Barcelona

Coordinates:
40°24'07.01"N 3°40'48.65"W

Conception

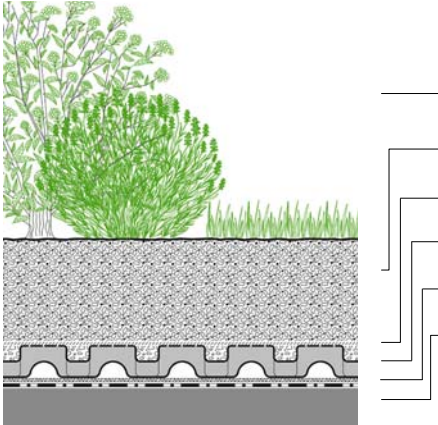
In the city of Madrid the climatic conditions are poor, partly due to the high degree of sealed surfaces. This green roof on top of an underground garage was designed by José Martínez Sarandeses and includes waterworks. The water feature adds a beneficial effect for the microclimate by

cooling and humidifying the surrounding air, as well as the vegetation which also provides shade. The water supply is ensured by a ZinCo system build-up with dam-up irrigation. The architect confirmed at the international green roof congress 2009 that the system still works fine.



The vegetation between the concrete building provides more than just visual benefits.

System Build-up



Plant layer according to design plan
System Substrate "Roof Garden",
installation depth ca. 400 mm

Filter Sheet SF
Floradrain® FD 60
infilled with crushed stone
Protection Mat ISM 50
Roof construction with
root resistant waterproofing



Installation of the Drainage Elements Floradrain® FD 60.



The green area between high walls, parks and gardens.



Paths, in connection with small bridges, make the green roof a genuine experience for the visitor.



Water features along the acacia avenue create a pleasant view and add freshness to the garden.

ZinCo GmbH

Lise-Meitner-Strasse 2 · 72622 Nürtingen · Germany
Phone +49 7022 6003-0 · Fax +49 7022 6003-100
info@zinco-greenroof.com · www.zinco-greenroof.com



Life on Roofs