



View of the cross-shaped green roof, which is now a component of the landscape.

### Project Data

Area: ca. 13.200 m<sup>2</sup>

Construction Year: 2012/2013

Architect/Design:  
West Group Architecture M.B.C.,  
Bucharest

Contractor:  
SC Central Green Shop SRL, Bucharest

System Build-ups with Georaster<sup>®</sup>,  
Floraset<sup>®</sup> FS 75 and Floradrain<sup>®</sup>  
FD 40-E

Coordinates:  
44°26'28.13"N 26°5'37.62"E

### Conception

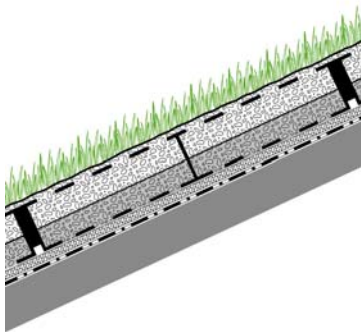
The Stejarii Complex situated in the Baneasa Forest is an individual "all-in-one" sports facility. With its impressive, innovative design and its equipment it meets the highest international standards. A harmonious combination of nature, entertainment, wellness and relaxation is offered, as well as individual services tailored to customer's wishes. Visitors have the opportunity to enjoy themselves in the indoor pool, whirlpool, fitness area, on the

tennis court or in the sauna. In order to integrate the mighty building into the landscape, the arched roof was completely covered with lawn. Various green roof systems were combined. Over the root resistant waterproofing Georaster<sup>®</sup> elements were applied in the steeper areas, Floraset<sup>®</sup> FS 75 in the slightly steep areas and Floradrain<sup>®</sup> FD 40-E in the flat roof area, each of these in combination with a system substrate specially mixed for lawn.



The green roof with its walkable lawn requires intensive maintenance including irrigation during dry periods.

### System Build-up Steep Pitched Green Roof



- Plant layer lawn
- Georaster<sup>®</sup> Elements, infilled with Special Substrate (ca. 100 l/m<sup>2</sup>)
- Protection Mat WSM 150
- Roof construction with root resistant waterproofing



The greenery follows the roof shape down to the ground level and thus integrates the mighty building complex into the landscape.



Shear retainers of the type Shear-Fix LF 300 and Eaves Profiles TRP 140 were installed in the steep roof areas in order to derive shear forces into the roof construction.



The synthetic Georaster<sup>®</sup> elements, just before being filled with system substrate.



The system substrate suitable for lawn was applied in layer thickness of approx. 100 mm.