

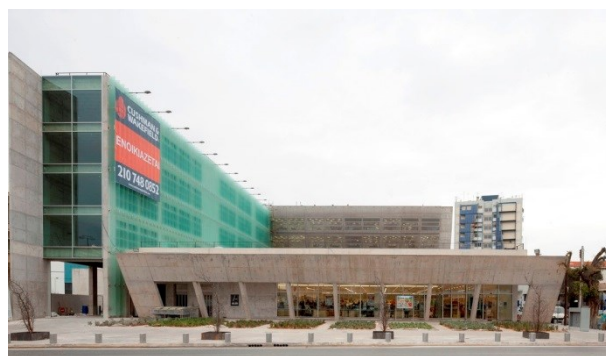
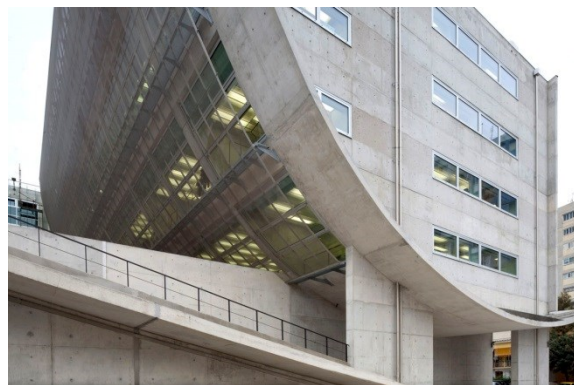
# SIKA AT WORK

## Shop & Trade Office Complex, Athens

ROOFING: Sarnafil® TG 66-15

WATERPROOFING: Sikaplan® WP 1100-20HL

# SHOP & TRADE OFFICE COMPLEX, ATHENS



## PROJECT DESCRIPTION

The mixed-use Shop & Trade Office Complex is located on Pireos Street, the historic road that connects the City of Athens with the port of Piraeus. The L-shaped four-storey office volume is a bioclimatic complex building with special design and planning, playful and welcoming workspaces that offer high comfort and functionality. The structure and all external wall surfaces are of exposed concrete. The choice of material is aimed at providing a sense of timelessness.

The project started in 2008 and was completed in 2010 at a total cost of 19.650.000€. It includes offices, retail shops, warehouses, showroom and complementary facilities as well as a green area on the rooftop of the ground floor of approximately 1.800m<sup>2</sup>, providing multiple direct environmental benefits to the area and a pleasant environment to the users of the building. Using the BMS (Building Management System) artificial lighting, ventilation and air-conditioning are automatically adjusted. The total built area is 11.000 m<sup>2</sup> (above ground) and 9.000 m<sup>2</sup> (underground).

The project has won the Special Mention A+ at the Architectural AwardsArchitizer and was nominated for the Mies Van der Rohe Award 2011, European Architectural Awards.

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**Sika Hellas ABEE**  
15 Protomagias Str.  
145 68, Kryoneri  
Athens-Greece

## Contact

Tel: +30 210 8160600  
Fax: +30 210 8160606  
[www.sika.gr](http://www.sika.gr) / [sika@gr.sika.com](mailto:sika@gr.sika.com)

## APPLICATION DEMANDS

Waterproofing of all underground areas proved to be a challenging demand, due to the high water level. Therefore, the chosen system for such an application was a PVC synthetic membrane system with compartment and PVC waterstops.

Underneath the green roof of the building, the contractor requested an anti-root membrane system for the intensive type green roof.

## SIKA SOLUTION

The compartment system for all underground areas was designed using **Sikaplan® WP 1100-20HL** PVC membrane in conjunction with **Sika Waterbar® AR** waterstops. The membrane was protected using **S-Felt M 500**, **S-Felt S 800** and **Sika Drain Geo** geotextiles.

For the green roof waterproofing **Sarnafil® TG 66-15** FPO membrane was used due to its outstanding resistance against weathering and microorganisms and its design characteristics. **Sarnafil® TG 66-15** is tested according to the German FLL-Green Roof Guidelines (root penetration resistance). **Sarnafil® TG 66-15** combined waterproofing and anti-root protection in one layer, offering thus low height system increase.

## PROJECT PARTICIPANTS

Owner: **SHOP & TRADE S.A.**

Architectural Design: **M.Kokkinou – A.Kourkoulas & Partners**

Development Consultant: **Dimand S.A.**

Green Roof Design: **egreen**

Contractor: **Arcon Constructions**

Applicator: **Ergotech**

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