



# SIKA AT WORK

## KING FAHD NATIONAL LIBRARY, RIYADH, SAUDI ARABIA

ROOFING: Sika Sarnafil TS77-15 TPO

**Sarnafil**®





# KING FAHD NATIONAL LIBRARY, RIYADH, SAUDI ARABIA



## PROJECT REQUIREMENT

The new National Library in Riyadh, Saudi Arabia completely encapsulates the original library building which was built in the 1980's. The new contemporary structure features a stunning PTFE façade with a mechanically fastened exposed Sika Sarnafil TPO roof and has become another of Riyadh's landmark buildings alongside the iconic Kingdom and Faisaliah Towers.

The new construction included exposed single ply roofs on a lightweight steel structure, which is a rare form of roof construction in Saudi Arabia. However great co-operation between the roofing applicator BMC, the main contractor Saudi Bin Laden, and following trades ensured that the roof was fully protected at all times and installed far quicker than a traditional concrete construction process. In addition, Sika was able to utilise its high performance MTC liquid polyurethane membrane, Sikalastic 621 to make watertight the 56 cantilevered steel trusses that penetrate the roof and would have been impossible to detail using a sheet material.

## SIKA SARNAFIL SOLUTION

Sika Sarnafil supplied its TS77-15 TPO membrane as the main roof covering, also supplying Sarnafast fasteners to secure the 110mm thick extruded polystyrene insulation board. The single ply membrane was also mechanically fastened using the fast-track Sarnafast in seam fixing method. Sarnatred walkway tiles were then installed on top to create safe pedestrian access. The roofs cantilevered trusses were coated with Sikalastic 621.

Sika Sarnafil was chosen for the project because of the membrane's proven track record of operating in extreme climates, and the architect's experience of using exposed Sarnafil membranes in Germany convinced Thomas Lucking of Gerber Architekten that a Sika Sarnafil TPO roof was the right solution for the library.

## PROJECT PARTICIPANTS

**Contractor: Saudi Bin Laden**

**Architect: Gerber Architekten, Dortmund, Germany**

**Size: 18,000m<sup>2</sup>**

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