



## San Manuel Casino

Year of Completion: 2004

Architect/Designer: WATG Main Contractor/Customer: KHS&S

Installed at the San Manuel Casino in the Californian desert, the 550sqm canopy installed by Architen Landrell was created from of PTFE / glass fabric tensioned to the surrounding buildings.

The barrel vault structure covers vehicle drop off area of the grand entrance to the casino in the San Bernardino Valley near Los Angeles, and provides weather protection for the casinos wealthy and high flying visitors.

The membrane was manufactured in one piece and was tensioned off out to a perimeter steel gutter and attached over a standard aluminium lufftruck. Designers had to accommodate the requirement for rapid dismantling, as the structure is built over the main water supply to Los Angeles. In the event of a problem with the pipeline, the fabric and support steelwork can be craned away to allow access. For this purpose a fabric membrane roof design provided a practical addition without compromising the aesthetics of the building.

At each corner of the canopy the fabric incorporates a curved cut out to avoid the stone-clad column. The membrane is restrained by a catenary cable connected to curved cable plates on the fabric and a fabric up stand diverts rainwater to the perimeter gutters.

**Location:**  
California, USA

**Category:**  
Exterior

**Market Sector:**  
Public Buildings  
Entertainment  
Sports and Leisure

**Scope Of Works:**  
Design  
Engineering  
Manufacture  
Project Management  
Install  
Steelwork

**Fabric Type:**  
PTFE - Solid

**Design Style:**  
Barrel Vault

**Function:**  
Weather Protection  
Entrance Canopy