



## Insulation of the building envelope below the cladding

Photos: Martin Argroglo

### Qatar National Museum, Doha

**Architect** Ateliers Jean Nouvel, Paris; Pritzker-prize winning architect

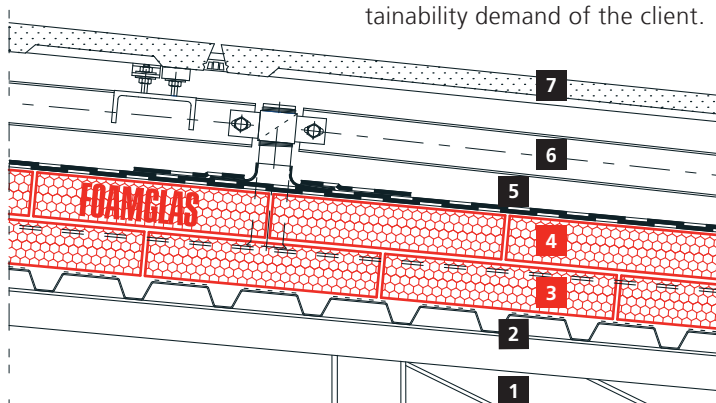
**Construction** starting 2012, ongoing

**Application** FOAMGLAS® for the building envelope behind GRC cladding panels. READY BOARD and FLOOR BOARD T4+, double layer: 2 x 100 mm, approx. 100,000 m<sup>2</sup>, bonded and partly mechanical fixation

The Architect's design is made up of a series of interlocking disks with cavities inside, buffered from the hot desert sun. The new museum will be built around a historic structure, the Fariq Al Salatah Palace, but will have new exhibitions about the life in the Gulf region. Outside will be a 1.2 million sq. foot park that interprets the Qatari desert landscape and is specifically designed for the hot desert sun. The entire complex will seek LEED Silver certification, relying mostly on traditional building practices to create

shady and cool areas with thermal buffer zones. Behind the GRC cladding, which are hollow core units, 200 mm FOAMGLAS® is used as thermal protection; it guarantees the inside's stable condition which is essential for the artworks. FOAMGLAS® cannot absorb any water due to the closed cell structure and builds a strong subground for the waterproofing membranes. The artwork and the building are protected from the desert heat at its best.

The 60% of recycling material content of FOAMGLAS® is supporting the sustainability demand of the client.



### Protecting the building

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#### Façade structure

- 1 Primary steel structure
- 2 Corrugated steel decking
- 3 FOAMGLAS® FLOOR BOARD T4+, 100 mm
- 4 FOAMGLAS® READY BOARD T4+, 100 mm
- 5 Double layer bituminous waterproofing
- 6 Secondary steel structure with brackets connection to the primary structure
- 7 GRC cladding panel

