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FOAMGLAS
Building

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FOAMGLAS® GCC references

Thermal insulation systems
for the entire building envelope.

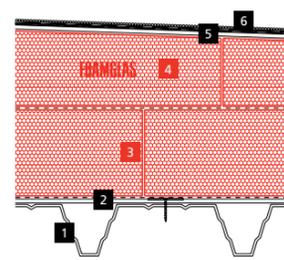
New Doha International Airport, Qatar

Tapered roof and void former on metal deck

Architect Bechtel / HOW
Engineering Bechtel
Construction 2007 – 2012
FOAMGLAS® Roof Insulation 11,000 m² as TAPERED ROOF SYSTEM (54 jet bridge roofs)

New Doha International Airport (NDIA) is slated to replace the old Doha International Airport as Qatar's only international airport in 2011. It was expected to be the first airport worldwide to fully handle Airbus A380, the world's biggest commercial aircraft. Qatar has witnessed a high growth in passenger and cargo traffic in the recent years, so the old terminal suffered from overcapacity. The FOAMGLAS® roof system is used on the metal roofs of the 54 roofs of the jet bridges. The build up comprises on the corrugated metal deck a dense deck to span the gap between the big support. The gypsum board is mechanically fixed. The first layer of FOAMGLAS® is used instead of light weight concrete because of the high rigidity without compression, non combustibility and the light weight. Above the FOAMGLAS® TAPERED

ROOF SYSTEM with integrated slope is used to create the slope and provide thermal protection. FOAMGLAS® contains 66% recycling glass content and is environmentally sound in its manufacturing, usage and eventual disposal.



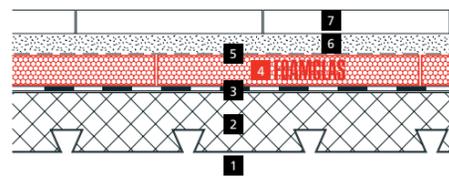
Grand Mosque extension, Mecca, KSA

Flat roof, accessible to foot traffic

Architect Dar al Handasah
Construction 2012, ongoing
Application FOAMGLAS® FLOOR BOARD T4+, 50 mm, about 125,000 m², loose laid as inverted roof
Finish Marble tiles

Al-Masjid al-Haram or the Grand Mosque surrounds one of Islam's holiest places, the Kaaba. It is located in the city of Mecca and is the largest mosque in the world. In 2011 Saudi Authorities launched work on a new historic \$10.6-billion expansion, increasing its capacity to more than 2.5 million worshippers. The total area of the existing Haram Mosque is 356,000 m² accommodating 770,000 worshippers. Moreover, other plans were included to expand the mataf (the circumambulation areas around the Holy Kaaba) and provide air-

conditioning for all parts of the Grand Mosque. In 2007, the entire mosque was fitted with air conditioning so that worshippers could perform their prayers in comfort. More than 100,000 m² of the new extension will have FOAMGLAS® boards on the roof to ensure an efficient use of the energy. The high compressive strength of the thermal insulation FOAMGLAS® will enable the use of the roof for the pilgrims and is at the same time the most durable insulation with zero degradation of the thermal performance over generations.



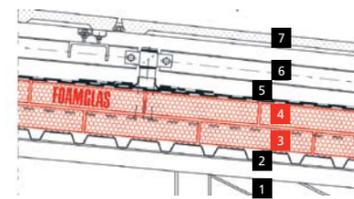
Qatar National Museum, Doha

Insulation of the building envelope below the cladding

Architect Ateliers Jean Nouvel, Paris
Construction starting 2012, ongoing
Application FOAMGLAS® for the whole building envelope behind GRC cladding panels. READY BOARD and FLOOR BOARD T4+, double layer: 2 x 100 mm, ca. 100,000 m², 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.



Unique Product Properties

- 1 **Waterproof**
- 2 **Pest-proof**
- 3 **Compression-proof**
- 4 **Incombustible**
- 5 **Vapour-tight**
- 6 **Dimensionally stable**
- 7 **Acid-resistant/Chemical resistant**
- 8 **Easy to work with**
- 9 **Ecological**

FOAMGLAS® is ecologically irreproachable and neutral in terms of building physics. FOAMGLAS® does not contain any propellants harmful to the ozone layer, flame retardants or binding agents. The main raw material consists of recycled glass (60%) obtained from plate glass. For the production green energy (from hydro-plants and wind turbines) is used. Consequently FOAMGLAS® is ecologically at the leading edge and doesn't need to shy away from any comparison with its competitors.

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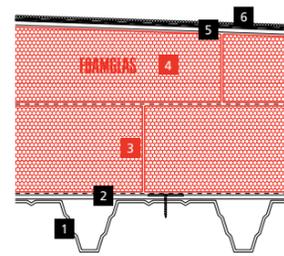
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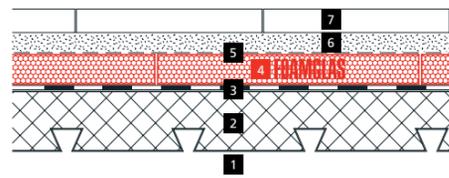
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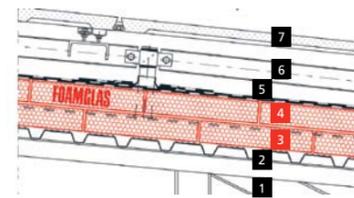
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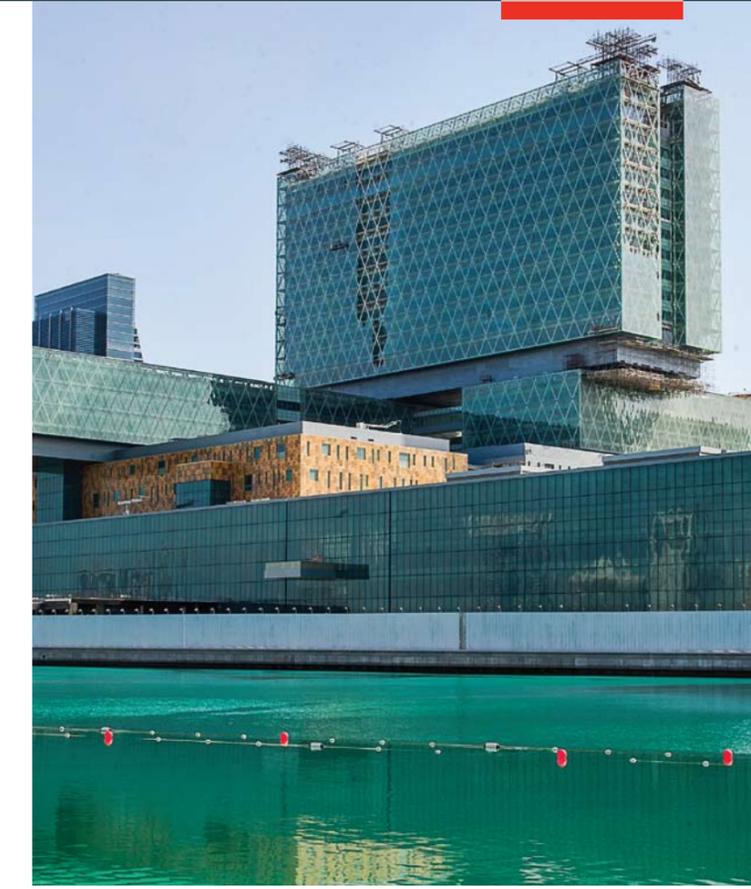
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