SODECO S.A.E
SPECIALTIES

Rehabilitation and Expansion of Cairo International Airport -Terminal Building 2 - Egypt
LIGHTWEIGHT CONCRETE WORKS

Project Name:	Rehabilitation and Expansion of Cairo International Airport - Terminal Building 2 (TB2)
Scope:	Lightweight Concrete Works
City:	Cairo
Country:	Egypt
Main Contractor:	Limak Insaat
Applicator:	Sodeco Specialties S.A.E
Construction Period:	2014 – Till date
Owner:	Cairo International Airport

Technical Information

Products Used: *Aercel Foam*

Areas Treated: 38,000m^2

AERCEL SYSTEM

❖ **Aercel Material**

- The foaming agent to produce lightweight cellular concrete at densities as low as 300kg/m3

❖ **FOAM PRODUCTION:**

- AERCEL FORMULA mixed with clean water and air, under “turbulence status”, by means of a Foam Generating machine, produces white creamy and stiff foam, which perfectly blends with cement-water slurry.

❖ **LIGHTWEIGHT CELLULAR CONCRETE PRODUCTION**

- Foam produced with AERCEL FORMULA foaming agent, thoroughly mixed with water-cement slurry or with a water cement-sand mix, allows the preparation of a new material, called lightweight cellular concrete, which matrix contains thousands of small closed (spherical) air cells.
- According to the mixed designed requested, the lightweight cellular concrete can be produced at a density varying from 300 up to 1.800 kg/m^3.

Main Applications

The main applications refer to lightweight cellular concrete having dry density 400kg/m3 about.
They are:

1) Roof slope for drainage & insulation
2) Floor screed insulation

❖ **Method of statement :**

- Making the guide lines with sand cement mortar, according to required slopes.
- Pouring the lightweight cellular concrete between the guide lines.
- Smooth the surface, and then leave it to dry.
- Making cure for 4 days.