Case Study:
Indoor Air Quality and Ventilation

Turkish Contractors Association

Location: Ankara, Turkey

The office building for the Turkish Contractors Association in Ankara was designed to showcase sustainability practices its members wished to promote.

The 5,500m² building uses labyrinth technology, an innovative solution to ventilation and cooling needs in climates that are hot in the daytime, but cooler at night.

This is combined with an active thermal slab cooling system. Air is first drawn through the labyrinth before being preconditioned and supplied to the building through the thermal slab systems which make up the individual floor plates. Chilled beams deliver the final required air conditioning.

This combined system significantly reduces the energy required to both heat and cool the building while ensuring occupant comfort.

With thanks to project engineers Atelier 10 and Avci Architects.