Green Design

Intelligence in Building
ecosystem
form and location

COMPACT FORM

EMBEDDED INTO GROUND

CORRECT ORIENTATION
natural lighting
daylighting
“super insulated” structural shell

interior

exterior

190mm Techblock (light) with cast rock wool filling
100+50mm rock wool heat insulation panels
20mm air pocket
90mm Techblock (light)

cast rock wool filling

2xØ14 reinforcement
cast inlay
Techblock beam unit
Steel bracket (every 50mm horizontally, every 60 mm vertically)

Uwall = 0.12 W/m²K
Uceiling = 0.11 W/m²K
Ubase = 0.53 W/m²K
Uwindow = 0.82 W/m²K
benchmark vs. superinsulation
heating energy requirements

EKOyapı Monthly Heating Energy Requirement (kW)
Monthly Heating Energy Requirement according to Turkish Standards (TS825)
“hoteling” alternative transport avoiding light pollution avoiding excavation
avoiding heat island effect
controlling rain water

RAIN WATER FRIENDLY DESIGN

CONDUCTIVE TILES

RAIN WATER STORAGE
landscape without watering

- Protecting existing vegetation
- Minimum landscape
- "No water" extensive planting
“green design” is re-creating the ecosystem