

ROOF

- white metal sheets (15° pitch)
- aluminum foil (radiant barrier)
- 50 mm hard rockwool (insulation)
- aluminum ceiling (2.5 m height)
- large eaves (> 1 meter)

WINDOWS

- double pane
- low-e
- argon gas
- non openable
- north/south orientation

VENTILATION

- ground cooled intake
- no regulation

SOLAR PHOTOVOLTAIC

- 4.8 kW_p system under the Malaysian Suria1000 program
- 16 kWh/day (avr. production)

WALLS

- 250 mm aerated concrete
- load bearing walls
- white

SOLAR CHIMNEY

- fridge/freezer 'exhaust'
- 'pulls' exhaust air out

SOLAR HOT WATER

- MicroSolar system

AIR-CON

- 4 units
- shared condenser
- variable speed drive
- R410A HFC refrigerant
- COP = 3.2



FLOOR

- 50 mm polyurethane insulation
- vapour barrier

DOORS

- double pane
- double seals (air tight)

