Sa Pobla
Social Housing Project
Design Team: Jose Ripoll Vaquer
Juan Miguel Tizon Gara

Plot Area: 1.145 m²
Gross Area: 2.498 m²

Work started on date: 16th June 2010
Work completion date: 11th September 2012
Typology 3

Ground floor

First floor

Second floor
Typology 4

2 floor

Ground floor

First floor

Second floor

3.00 3.00 3.00

0.9

6.00

A(2h)
Typology 6

2 floor

Ground floor  First floor  Second floor
3D Geometry

Second floor

First floor

Ground floor
perforated clay masonry brick

- an artificial material mainly made of clay
- usually used in the construction layer of outside and inside walls
- relatively heavy, ideal for insulating sound and storing heat energy

thermal conductivity $\lambda : 0.56 - 1.30 \text{W/(m*K)}$

specific thermal capacity : $1 \text{kJ/(kg*K)}$

density : $1200 - 2200 \text{kg/m}^3$
passive ventilation

circulation of air in and out of indoor space

- energy saving
- lower use of mechanical systems in building

solar thermal collector

transfer of heat energy to tank through separate heat exchanger

- provision of 70% hot water
- free of charge
- no emission of CO2
hydraulic concrete tile paving
- low cost
- easy installation

high pressure compact laminate panels
- excellent stability
- durable & resistance against impacts
concrete structure infilled with perforated clay masonry bricks
Conclusion

- Circulations that make the space interesting
- Using local materials
- Arrange the project in a way that fits with the surroundings
- Follow the same arrangements as the existing buildings next to the plot