Ecological quality and energy conservation
- Green areas for low building service equipment
- Use of growing material, local materials, recycled and recyclable materials
- Raising the quality of the square and related businesses (i.e., Sky Café)
- Local effect = activation development in the neighbouring areas; attraction of visitors
- Programmatic flexibility by highly specific unique architectural form
- "The right height" for the structure is enough to provide views and avoid an over-powering mass
- Creation of an improved microclimate by shading of the plaza and evaporation; in summer the evaporation is further promoted by solar powered and irradiation-controlled systems
- Natural climate through material and shading with low air conditioning needs
- Combined use of natural materials, conventional construction and smart materials (wood structure, polyurethane coating, recycled plastics and metallurgical finishes)
- Reduced lifecycle costs due to low-maintenance finishes and materials
- Use of existing urban land
- Prefabrication reduces construction costs
- Shading imitating the traditional Seville way (tree form)

3. Permeability
At the same time the Parasol structure was deliberately not made continuous but left permeable, to let some filtered light to the plaza and avoid an over-exposure of the area.

Apart from "free views for all" the Parasol structure integrates solar-thermal and solar-electric panels for energy generation, which contribute to meet the cooling loads for the air-conditioning equipment.

POSICION EJES

POSICION PARASOLES

1. Stresses of diagonals between P5 and P6

2. Green power generation

3. Allow warm air to escape

Tourists

Parking lot on the square after 1973

Medieval town centre, Floor plans Plaza level 0,1 and 2, top view Plaza de la Encarnación

Shadow studies on 21-03, 21-06 and 21-12 at 9a.m., 12a.m., 3p.m. and 6p.m.