

RESPECT TOWARDS THE ENVIRONMENT – SUSTAINABLE DEVELOPMENT

In **TEKMAR A.T.E.**, we course our love and respect towards the environment by adopting and put into practice methods and actions not only during the construction of our projects, but also by installing to them up-to-date energy saving systems in order to preserve the natural resources.

Regarding the “**Pearls Of Crete**” project, like to the other projects, that we have constructed, we have implemented a lot of such techniques and practices and more specifically:

1. During the construction period

- ✓ *We have used the most up-to-date equipment for faster and more effective building construction, having us a result working hours and energy saving and greenhouse's effect gas emission reduction.*
- ✓ *We have recycled and used the mineral materials (clay, stones etc.) from the site of the project.*
- ✓ *We have used high resistant matrix frames, in order to minimize the need for wooden frames.*
- ✓ *We have tried to minimize natural resources consumption, by recycling water & raw materials during the construction period.*
- ✓ *We have aimed and succeed in optimizing project planning and coordination among several technicians and crew, which worked in the project so, as to achieve the highest possible energy efficiency.*
- ✓ *We have minimized the damages and loss of raw materials, by planning and applying accurate and detailed budgets, in order to optimize material orders and, as a side effect, to contribute in saving more natural resources.*

2. Houses Equipment

- ✓ *During the construction of the project we have used natural materials such as wood and stone and we have harmonized our constructions to the Cretan architecture and more specifically to the architecture of our region. Moreover, we have used*

ecological paints and natural materials that are environmental friendly and safe for the people.

- ✓ *We have given to the buildings right architectural orientation, by taking into account the weather conditions and the micro-climate of the region.*
- ✓ *We have insulated every property, using the most up-to-date external (wall, roof, terraces & balconies) thermal and moisture insulation systems like **(KELYFOS)**, in order to minimize energy loss and consumption.*
- ✓ *We have used aluminium casings with double crystals, in order to minimize energy loss and consumption.*
- ✓ *We have installed modern heating systems, inner-floor and conventional, that utilize the natural sun irradiation – by using highly effective solar panels – for heating **1)** the water supply system of the house, **2)** the water of the heating system and **3)** the water of swimming pools. These systems are working in combination with highly effective and low fuel consumption heating burners.*
- ✓ *We have installed energy efficient fireplaces.*
- ✓ *We have installed the most up-to-date **INVERTER** type air-condition systems, ‘**A energy class**’ electrical appliances and low energy consumption lightings and lamps, in order to minimize electricity consumption.*
- ✓ *We have installed central underground watering system for the gardens, in order to minimize water waste and to maximize watering efficiency.*
- ✓ *We have planted trees and decorative plants, emphasizing on those that thrive in our region, in order to improve clean air emissions and to place the project in its natural environment.*