

# **MULTI-STOREY SOCIAL HOUSING MADE IN TURKEY CONTACT. (HORSENS, DENMARK)**



*Grado de Arquitectura Técnica*

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## ARCHITECTURAL CONCEPT

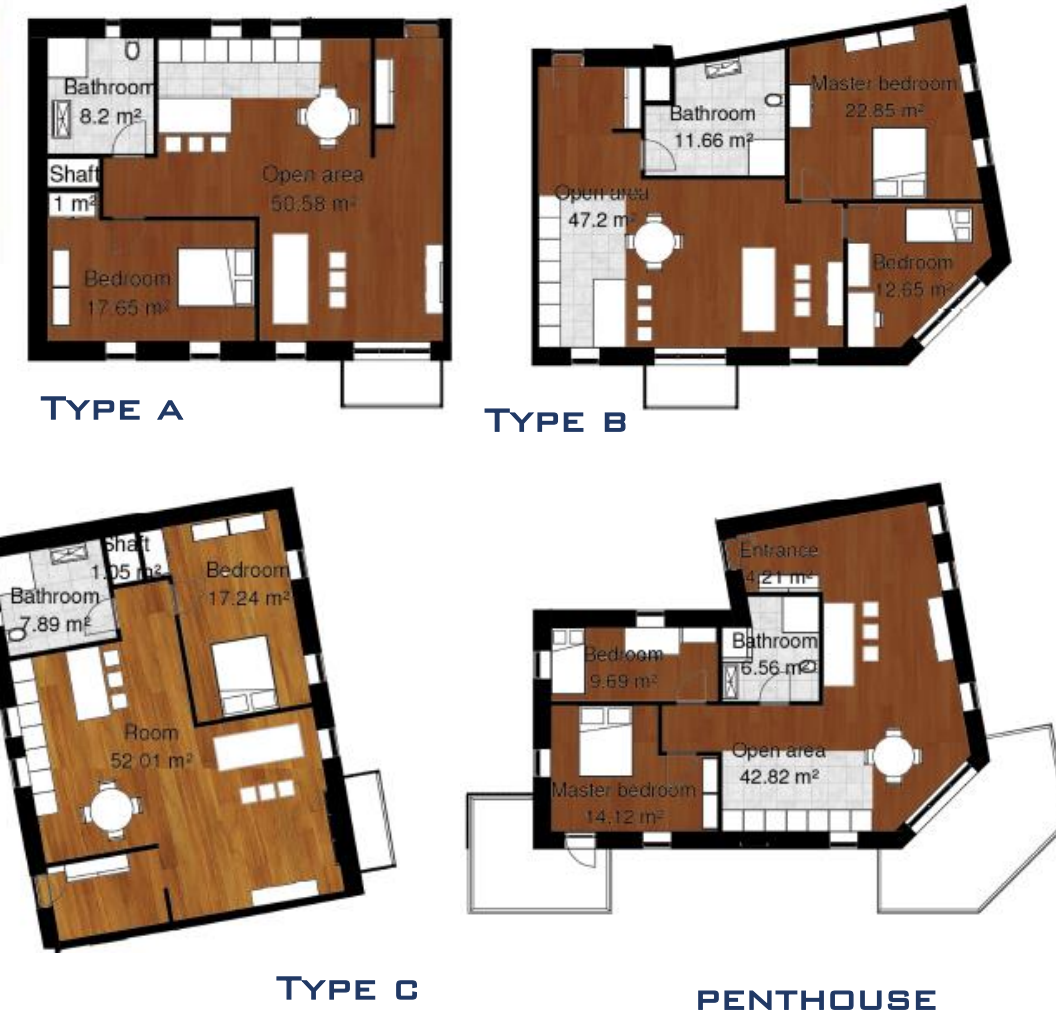
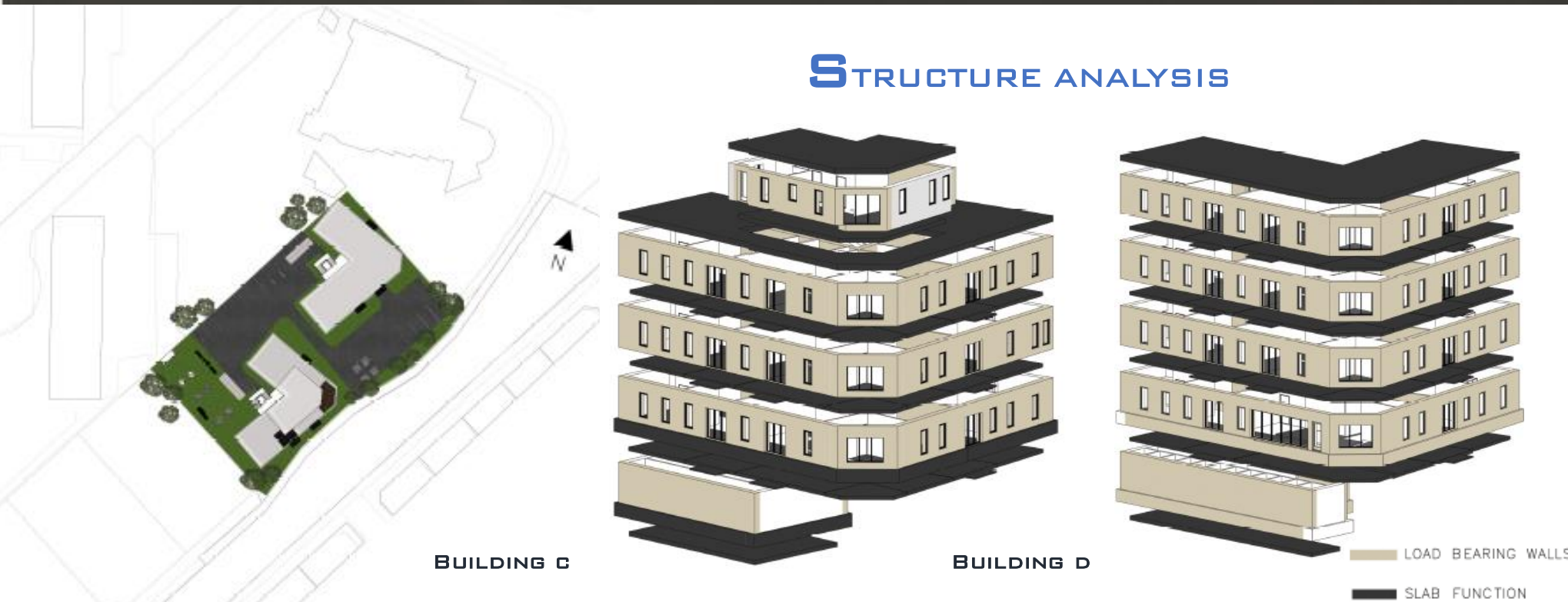
The main idea was to maintain the classic appearance that characterized the buildings of the neighbourhood and at the same time, achieve a modern design that highlight and embellish to the maximum the environment, all this taking into account the new methods of bioclimatic architecture and energy efficiency in buildings.

## APARTMENTS TYPES

Both building is 4 storeys high. Building C have 10 apartments and building D have 11. On each floor we have 3 apartments except for the ground floor which consist of 2 apartments and commercial unit, and the four floor that is the penthouse. The gross area is of about 115m<sup>2</sup> and 90m<sup>2</sup>.

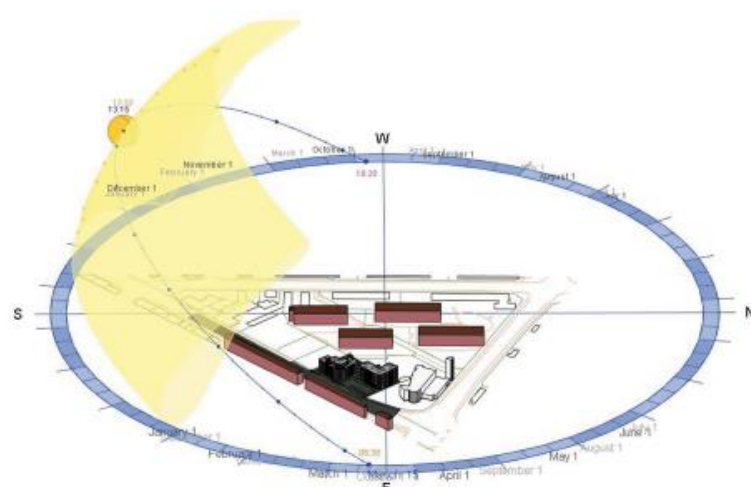


## STRUCTURE ANALYSIS



## ENERGY EFFICIENCY AND EFFICIENT DESIGN

### SUNLIGHT ANALYSIS



### SUSTAINABILITY



### USE OF RENEWABLE ENERGIES

During the design phase, the type of installation that was most appropriate for our buildings was studied, taking into account factors such as weather, situation, costs, etc. Finally, we chose the rainwater collection system and the installation of solar panels.

### ECO-EFFICIENT DESIGN

- Optimize the orientation of the different areas of the building.
- Installation of solar panels.
- Reduction of the areas built by green areas.
- Use of thermostats, windows with triple glazing, presence detectors, optimize natural light.
- Use of efficient equipment and innovative ecological materials (they have not been prepared through a harmful process and are locally sourced materials).

## ELEVATIONS

