

A RESEARCH ON THE CONCEPTS OF PROPORTION & MODULE IN 19th CENTURY TRADITIONAL CITY DWELLINGS IN SULEYMANIYE-ISTANBUL

Ciudem Baytyn

Yildiz Technical University, Department of Architecture
Yildiz Besiktas-Istanbul 80750, Turkey

The proportions of certain geometrical forms had been a means of interest beginning from the Ancient ages through the middle ages reaching the modern era with Le Corbusier's Modular, Golden section, the well-proportioned rectangular and module systems of the Classical Architecture are starting points of so many works of art.

Some proportional relationships of forms at facades, section and plans were also effective in *Ottoman Turkish Civilian Architecture*. Nevertheless, detailed studies must be carried out to determine these relationships.

This study, takes Suleymaniye quarter in historical Istanbul Peninsula as a case-study area to find out the proportional organizations and modulation systems at the facades of wooden Traditional Turkish Houses. Facade characteristics of 76 houses are analyzed with typologies such as; upper floor windows, ground floor windows, basement floor windows, entrance doors, ventilation windows, wooden lattices, fences, bay windows, wooden coatings etc.

Proportional systems at facade is determined by;

- * ratio of solid-void
- * ratio of window area / facade area
- * width height ratio of windows
- * width height ratio of facade
- * the diagonal size of the facade rectangle.

The sizes of the facade, the window and the bay window form the modular units. The size of the facade or the bay window is related with constructive possibilities and also with the socio-economic status of the owner of the house. As in "Konak" type these units are wider than other houses in rowhouse form. Repeated window series, various measures of module units, also formulate a rhythm that gives enthusiasm.

The results of above mentioned analysis will be compared with other proportion systems to find out the similarities or differences of these with the well known measurements to determine the sources of the proportions used in Turkish civil architecture.