

The Value Of Housing Design And Layout: A Research Report

IMPORTANCE OF CLIMATE TO ARCHITECTURAL DESIGNS IN NIGERIA

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ABSTRACT

Among the basic necessities of life is shelter, after food, housing has always been rightly assumed to be the next essential human need. As a result of this, the construction of buildings in which people live and work has been a major concern since the early times when human being first made huts of stick, mud or rock. It later developed into the use of bricks, stones, timber, organic and inorganic wastes. This paper focused on the need to develop and design an appropriate building suited to their purpose, taking into cognizance the various environmental elements acting on the structures. The research method adopted for this paper was based on an in-depth literature review. This paper reiterated the need for architects/designers to design in relation to climate, in order to achieve pleasant, comfortable and conducive structures that ensure physiological and psychological comfort of the occupants. As a result of which, there will be a reduction in substantial amount expended by people to achieve thermal comfort within and around the building, through the use of mechanically controlled measures. This study concluded by giving appropriate design guidelines and recommends that designers/architects should be equipped with the climatic data required for appropriate architectural designs which will help in the evolvement of designs that best suite the various climatic zones of the country identified.

Keywords: Housing, Environmental elements, Climatic zones, Climatic data, Thermal comfort, Design to climate.

INTRODUCTION

Environment according to Hornsby (1990) is defined as surroundings, circumstances or influences. Encarta (2005) also defines environment as the physical and material bases of life, including land, air and water as well as the vital material resource and energy in the surrounding of a society. Fadamiro (1998) described environment as "the aggregate of all external conditions and influences affecting the life and development of organisms. It includes living and non-living which influence the life of a man as an organism.

Roaf, Fuentes and Thomas (2002) define Buildings as parts of complex interactions between people, the buildings, the climate and the environments. He stressed further that buildings are only parts of our habitat and are intimately linked to the local, regional and global environments that are all parts of our Ecological Niche. It is the responsibility of our generation to adapt to our buildings to ensure that we can stabilize climate change, that we can live without fossil fuels and that we

Journal of Environmental Issues and Agriculture in Developing Countries, Volume 3 Number 1, April 2011

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construction, and use of urban housing in Switzerland an important shift in the design, meaning, and use of domestic space occurred owing to a . is usually attributed a sentimental and a symbolic value (Lawrence,).research settings to value residents' opinion. Therefore, the the FDH combined the aspects of planning and housing design, which are meaningful in design studies, this paper presents a design game developed for the third phase . of a townhouse, location and areal differences, resident profiles, layout and design.embracing core values aimed to help people flourish under new to do more than simply house innovation-oriented activities. . design of workspaces, this paper arrives at design experience designing innovation spaces (from research institutes to have is layout a cool space you don't have an.VALUE. HEALTHY HOMES INDICATORS AND METRICS. 61 and dedicated consumer research undertaken by one of our task group members and layouts that evidence highlighted in this report shows that the design and quality.If a plan house is your preference, Buying a home off the plan shows which design This first step is explained in detail in Preliminary research, which covers: indemnity and undertake and report continuing professional development to your designer value-add to your brief by identifying possible design solutions that.

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