

# **Analytical study of the quality of the internal environment in the house according to the standards of the Jordanian Green Building Guide**

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## **Abstract:**

The term indoor environmental quality is often confused with the term indoor air quality, but the term indoor environmental quality is larger and more comprehensive than the term indoor air quality, indoor air quality is a main part of indoor environmental quality which includes indoor air quality, the sustainable design has focused on the issue of the quality of the interior environment, as the sustainable interior design provides for achieving the quality of the interior environment by applying some special standards that are concerned with the quality of the interior air and the requirements of human comfort, the principle of internal environmental quality stipulates ensuring an internal environment in the dwelling that satisfies its residents, and this is done by providing fresh air inside the dwelling that does not cause harm to humans, by ensuring a good ventilation for the house, using building materials, interior finishing materials, furniture with low emissions and volatile materials, the requirement of thermal comfort should also be fulfilled by the temperature and humidity appropriate to the physiology of the human body, It is also necessary to secure the appropriate amount of lighting in the interior spaces of the dwelling by relying on natural lighting during the day.

Achieving indoor environmental quality helps reduce the amount of energy consumed inside the dwelling, maintaining human health and preserving the natural environment, the quality of the internal environment is achieved by taking advantage of the climatic characteristics of the place in which the house is to be constructed, climatic characteristics mean the movement of the sun and the movement of the prevailing winds, as these elements must be used to help achieve the quality of the internal environment, the Jordanian guide for green buildings stipulated that the quality of the internal environment is met through some special standards, as these standards clarify the method of achieving the quality of the internal environment in the dwelling, it also evaluates it through earned points that show the extent to which the internal environment of the residence is compatible with these standards.

The most important results obtained through the research were that the application of the internal environment quality standards of the Jordanian standard for green buildings benefits

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the natural environment and the residents of these dwellings, The standards of the guide helps to provide a healthy indoor environment that is free of contaminants and meets human comfort requirements.

**Keywords:**

Sustainable interior design, Indoor environment quality , Jordan green building Guide