

# The atriums and the central lobbies light provision in the Iranian contemporary architecture

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The atrium is a principal component of a building and its main function is to provide the light flow. Atrium came us from ancient Rome, where the central yard was so called and provided the necessary light to the surrounding spaces. Throw the time and due to changes in the architectural and building process the atrium concept and meaning changed too. Today the positioning and application of an atrium is one of the solutions to provide the light flow in buildings that have deep plans.

Depending on the position in the plan and the purposes that have been considered for an atrium, the functions and application vary from case to case. We can define and divide the atriums in two principle groups:

- 1- Light is received just throw the ceiling and the atrium is positioned in the central part of the architecture plan.
- 2- Light is received through both ceiling and wall.

There are many factors that influence on the function of atrium especially the central type. If the mentioned factors are not properly considered and respected, the atriums become light holes that don't satisfy the light provision necessities. The problems related to the light provision throw the atriums are well known in our country too, so throw this study the author has tried to focus on the problems and influent factors and the light transferring and controlling systems, proposing functional solutions for each case, in order to find solutions to the problems regarding the design and use of the atriums.

Keywords: Atrium, Daylight, Atrium Problems, Light transfer and control.