

A review study on the application of the fibre optic daylighting system in Malaysian buildings

Abstract

As a developing country, Malaysia requires innovation to keep abreast of the rapid growth of technology to meet the highly demanding energy consumption. The application of daylighting systems especially by fibre optics is very limited, due to the absence of relevant knowledge and the lack of understanding of the system requirements and potentials, particularly the technology of illuminating enclosed spaces which are totally surrounded by internal walls (opaque). Thus, the aim of this literature review is to shed light on this new approach and to help the building technologists activate its application in building interiors. This paper presents and summarises the important technical issues that enhance the adoption of this technique for the Malaysian built environment.

Keywords

Daylighting Technology; Fibre Optic; Malaysian Built Environment; Sustainable Building Technology