

Paper (2)

Title	DEVELOPMENT FOR SUSTAINABLE CONSTRUCTION SYSTEM GLASS FIBER REINFORCED GYPSUM (GFRG) IN EGYPT USING NANOTECHNOLOGY
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Journal / conference	American Journal of Environmental Protection. Vol. 5, No. 4, .2016, pp. 82-89 ISSN:2328-5680(print);ISSN:2328-5699(Online)
Date	June,2016
Abstract	<p>One of the mile stones for the success of construction projects is the project management triangle (time, cost and quality). During the past decade, a lot of construction systems have been developed to this triangle. GFRG system was one of these systems (for example that was established in Australia), it fulfilled LEED certificate for construction materials. When it is compared with traditional systems in Egypt, Glass Fiber Reinforced Gypsum (GFRG) system superior to traditional systems in time, cost in case of repetitive projects and quality. The world awareness for sustainability have increased lately in different aspects, thermal comfort is one of the main sustainable aspects that influence users. This paper aims to study thermal comfort for GFRG system in Egypt and comparing with traditional systems, it also aims to study the nanotechnology to develop this construction material in order to increase thermal comfort performance.</p> <p>Keywords— Aerogel, Nanotechnology, GFRG, Thermal Comfort, Egypt</p>