

Necessity of Using Cellular Lightweight Concrete in Construction Sector

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Abstract : Recently, the using of lightweight concretes in construction sector is rapidly increasing all over the world. Faster construction, low density and thermal transmitting coefficient and high fire resistance are the remarkable characteristics of the lightweight concretes. Lightweight concrete can be described as a type of concrete which enhance the volume of the mixture while giving additional advantages such as to reduce the dead weight of the structures. It is lighter than the conventional concrete. The use of lightweight concrete has been widely spread across countries such as USA, United Kingdom, and Sweden. In this study, the necessity of the using of lightweight concretes in the construction sector is emphasized and evaluated briefly for the architectures and civil engineers.

Keywords : lightweight concretes, low density, low thermal coefficient, construction sector

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