

عنوان مقاله:

Performance of Double-Skin Facades in Different Climate Regions

محل انتشار:

اولین کنفرانس بین المللی کاربرد پژوهش و تحقیق در علوم و مهندسی (سال: 1395)

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خلاصه مقاله:

With the global target to promote energy saving in buildings, various studies draw attention to the role of environmentally benign building envelopes. In this regard, double-skin façades (DSFs) have been proposed as a promising passive building technology to enhance the energy efficiency and improve the indoor thermal comfort at the same time. A comprehensive analysis of the current design of DSFs, and their technical aspects is presented in this paper. This research aims to demonstrate models of DSFs that functions efficiently in different climates. The energy transfer that occurs in single enveloped buildings significantly varies according to the building orientations and environmental factors under diverse climate conditions. Finally, research opportunities are outlined for further investigation.

کلمات کلیدی:

Double-skin façades, Building envelope, Energy performance optimization, Built environment sustainability

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