

Wind catchers - a ventilation strategy for the future in hot regions - with reference to Egypt.

University of East London - Use of traditional passive strategies to reduce the energy use and carbon emissions in modern dwellings



Description: -

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A new design of wind tower for passive ventilation in buildings to reduce energy consumption in windy regions

Windscoops have long been used on ships. On the whole, the cool air flows through the building, decreasing the structure's overall temperature. Building and Environment, 45, 320—329.

Effect of damper and heat source on wind catcher natural ventilation performance

The use of shading devices like overhangs and balconies provided further protection from the heat of the sun, not only to windows but walls as well. The winter temperatures also vary from 25°C to 5°C. Sustainable architecture is framed by the larger discussion of sustainability and seeks to minimize.

Naima Benkari

But as demonstrated in the analysis, they have a profound effect on the thermal performance of the building and there is ample scope of improvement in the current envelope design specifications.

Experimental study on the thermal performance of a traditional house with one

Windcatchers vary dramatically in shape, including height, cross-sectional area, and internal sub-divisions and filters.

Naima Benkari

Combining the use of a locally produced material with an enhanced engineering properties could further promote sustainability in construction industry. In a windless environment, a windcatcher can still function using the. These are often found underground.

Effect of damper and heat source on wind catcher natural ventilation performance

The urban form in modern planning is dictated by the economic status and high rises are finding preference as against the traditional layouts. This paper presents the quantitative evaluation of traditional buildings in the coastal region of Nagappattinam during summer and winter periods with the custom-made instrument called Mini-meteorological station to understand the various solar passive elements used in the traditional buildings that provide thermal comfort.

Farzaneh Soflaei

After the submission of my manuscript in the European libraries. A draft disrupts the of body-warmed and water-saturated air clinging to the skin, so a human will feel cooler in moving air than in stagnant air of the same temperature.

Windcatcher

Description of ChallengeIn hot arid zones, a difficulty is found in combining the three functions of the ordinary window: light, ventilation, and view.

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