

Courtyard Terrace Solar

How to optimize the thermal performance of internal courtyard in a house?

One of the suggested strategies is to include internal courtyard in the house in order to optimize the climatic source according to its thermal mass effects. On the other hand, solar radiation which is received by the courtyard surfaces will affect the thermal performance of the internal spaces especially in areas adjacent to the courtyard.

Does a courtyard building have a thermal performance?

So far, thermal performance of courtyard building has been investigated by several researchers,,,. These studies have mainly evaluated detached buildings, such as bungalows, where there is no limitation of land size and opening.

Does an internal courtyard affect the thermal performance of adjacent areas?

Accordingly, an internal courtyard does affect the indoor thermal performance of its adjacent areas. The results obtained from computational analysis revealed the potential thermal impacts of indoor courtyard on passive cooling in double storey terrace houses located in warm humid climate.

Can Ecotect be used to measure thermal conditions in a terrace house?

Field measurement has been conducted to investigate the thermal conditions in an existing naturally ventilated terrace house under warm humid conditions. The field measurement information was then used to develop the baseline model for the computer simulation work. ECOTECH software was applied to build a model for the case study building.

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Two shed-roofed volumes, oriented and shaped for passive and active solar, are linked to create a private courtyard. Designed to receive afternoon shade from a stand of mature oaks, the courtyard opens to a hillside meadow and upper pool terrace with vegetable garden.

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At ground level, a rectangular courtyard sits at the very centre of the plan; on each successive level above, this courtyard expands and morphs, creating curving terraces that offer flexible outdoor spaces for work and leisure. This valley is shaped with solar principles in mind. The northern wing of the building rises to 7 storeys, but the ...



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This paper presents a study of the effects of building form on the received solar irradiance by ...

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This paper presents a study of the effects of building form on the received solar irradiance by courtyards and atria in different latitudes. Ecotect program is used to model and simulate certain...

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The results from simulation analysis indicate that, applying internal courtyard in the terrace house will improve natural ventilation and thermal comfort in spaces with openings to the outside environment. It shows that the influence of the internal courtyard on the thermal condition has a strong reliance on the envelop openings ...

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In essence, the terrace type has been reconceived as a courtyard house. What is ingenious about this configuration is that there is no space wasted to circulation. The full width of the plot is dedicated to the interior, and the spaces are light-filled with seamless connections to the exterior and, most beautifully of all, views to the sky. To achieve this, there is no covered ...



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