

## Mixed use housing: Effect of louvers towards passive heating and cooling system = Penggunaan jalusi dalam desain sistem pasif

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### Abstrak

[Dengan maraknya isu pemanasan global di dunia yang sudah terjadi dalam beberapa tahun terakhir ini penerapan desain yang ramah lingkungan untuk kehidupan sehari-hari menjadi sesuatu yang penting dan harus diperhatikan. Desain tersebut kemudian menjadi kontribusi bagi seorang arsitek untuk mengurangi pengaruh pemanasan global. Penerapan sistem ramah lingkungan kecil dan sederhana pada suatu bangunan dapat sangat berpengaruh pada kemampuan sebuah bangunan untuk membantu mengurangi isu pemanasan global. Hal ini memulai ide untuk menerapkan penggunaan Louvers pada bangunan untuk membantu mengatur jumlah cahaya matahari yang masuk ke dalam bangunan dan menggunakannya sebagai pemanas dan pendingin alami. Penerapan sistem bangunan campuran dilakukan untuk memanfaatkan efisiensi ruangan pada bangunan. Lewat analisis mendalam dari teori dan teknologi dari studi kasus dan preseden, paparan ini akan dipresentasikan melalui diagram sketsa dan aplikasi langsung pada tapak. ;With the global warming issues that has been happening in the world on the past centuries the application of sustainable design in daily life becomes something crucial and need to be concerned. This design is part of contribution as an architect to reduce the effects of global warming. The application of small and simple sustainable system in the building could give massive effect to the ability of the building to give back to the environment thus reducing the effect of global warming. This started the idea to apply the usage of louvers on the building to help controlling the amount of sunlight that goes through the house and use it as passive heating and cooling system for the house. The application of mix used building is used for space efficiency in the building. Through analysis of the theory and technology from the study case and precedent, this thesis would be presented through diagrams and direct application on the site. ;With the global warming issues that has been happening in the world on the past centuries the application of sustainable design in daily life becomes something crucial and need to be concerned. This design is part of contribution as an architect to reduce the effects of global warming. The application of small and simple sustainable system in the building could give massive effect to the ability of the building to give back to the environment thus reducing the effect of global warming. This started the idea to apply the usage of louvers on the building to help controlling the amount of sunlight that goes through the house and use it as passive heating and cooling system for the house. The application of mix used building is used for space efficiency in the building. Through analysis of the theory and technology from the study case and precedent, this thesis would be presented through diagrams and direct application on the site. ;With the global warming issues that has been happening in the world on the past centuries the application of sustainable design in daily life becomes something crucial and need to be concerned. This design is part of contribution as an architect to reduce the effects of global warming. The application of small and simple sustainable system in the building could give massive effect to the ability of the building to give back to the environment thus reducing the effect of global warming. This started the idea to apply the usage of louvers on the building to help controlling the amount of sunlight that goes through the house and use it as passive heating and cooling system for the

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