ABSTRACT

Rapid urbanization is reflected in a proliferation of large, highly dense urban regions in Singapore. The environmental, social and economic implications are profound and strategies for greening to mitigate the harshness of the built environment have become more apparent. One of which is to bring focus on the highrise greening of building developments in the form of green roofs.

Despite the many advantages and the prevalent adoption of green roofs in many European countries, the incorporation of green roofs into building developments in Singapore are still not widely received. This study aims to determine the current perception of building professionals on the issues of green roof development and recommend effective schemes to promote it. A postal survey was conducted to find out the views on the twenty beneficial and twelve barrier issues of green roof development. Statistical T-test was used to test whether these issues are significantly held to be true among the different groups of professionals. Personal interviews were conducted to unravel other pertinent issues regarding green roof development.

The study showed that building professionals generally agreed with most of the beneficial issues of green roof development. It was also found that unlike the Architect and Developer groups, the Landscape Architects disagreed with the issues pertaining to green roof technical barriers. The professionals generally felt that the lack of government incentives and the lack of green roof technical knowledge and awareness of its benefits are barriers to its development. These issues should be addressed to increase green roof demand and adoption in Singapore.

Key words : Benefits, Barriers, Green roof, Development