ABSTRACT

This dissertation aims to study the indoor, local and global environmental issues in relation to the Building Research Establishment Environmental Assessment Method (BREEAM) /New Homes Version 3/91. Its applicability in Singapore has also been examined.

Two local condominium projects were use as case study for assessing BREEAM in the Singapore context. One high-rise and one low-rise project were chosen because of their compliance with local regulation varies due to the type of development and both projects were developed in the year of 1999. Study of local regulations and survey of local condominiums have been conducted. This is to determine the coverage of BREEAM in Singapore. A revised BREEAM is proposed to evaluate the environmental performance of Singapore projects.

It was found that 85% of various issues covered in BREEAM are applicable to Singapore. 34% of the credits may be achieved automatically by complying to Singapore building regulations. Only 15% of the credit is not applicable for Singapore due to the climatic condition of this region and local construction methods. The overall score achieved by the two case study projects are also above average level.

It is recommended that Singapore adopt the BREEAM ‘s approach with modifications to meet the local requirements.