

MEBS6016 Energy Performance of Buildings (2003-2004)

SECTION A (numerical answers)

A1. (a) Not applicable

(b)

Numerical answers:

i) Energy utilization index: 187.5 kWh/m²/year

ii) Energy cost index: \$166 /m²/year

The percentile of this building: 44%

A2. (a) Not applicable

(b) Not applicable

A3. (a) Not applicable

(b)

Numerical answers:

Option 1 (the energy efficient system is installed): LCC = \$480,150

Option 2 (the energy efficient system is NOT installed): LCC = \$645,225