CONFERENCE TO PROMOTE
GREEN BUILDING RATING IN AFRICA
Green buildings rating tools and how they work
5 May 2010

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WHAT ARE RATING TOOLS?
WHERE ARE THEY USED?
CERTIFICATON
IMPACT CATEGORIES
RATING TOOLS IN AFRICA
GREEN BUILDING RATING TOOLS
First major rating tools in use

- LEED
- CASBEE
- GREEN STAR
- HK BEAM
- LEED CANADA
- LEED INDIA
- BREEAM
- HQE
- CASBEE
Current major rating tools in use

LEED
BREEAM
CASBEE
GREEN STAR
HK BEAM
LEED CANADA
LEED INDIA
GREEN STAR SA
GREEN STAR NZ
LIDER A
GREEN PYRAMID
BREEAM-NL
DGNB
GREEN MARK
GULF
IGBC
TOOLS
HK BEAM
GREEN MARK
GREEN STAR
GREEN STAR NZ
RATING TOOL CATEGORIES

ENERGY
WATER
INDOOR ENVIRONMENTAL QUALITY
MATERIALS & RESOURCES
ECOLOGY
TRANSPORT
MANAGEMENT
EMISSIONS
## Credit Summary Table

### Water
- Occupant Amenity Water: Wat - 1, 5
- Water Meters: Wat - 2, 2
- Landscape Irrigation: Wat - 3, 3
- Heat Rejection Water: Wat - 4, 4
- Fire System Water Consumption: Wat - 5, 1
- **TOTAL**: 15

### Materials
- Recycling Waste Storage: Mat - 1, 2
- Building Rousso: Mat - 2, 5
- Reused Materials: Mat - 3, 1
- Shell and Core or Integrated Fill-out: Mat - 4, 1
- Concrete: Mat - 5, 3
- Steel: Mat - 6, 3
- PVC Minimisation: Mat - 7, 1
- Sustainable Timber: Mat - 8, 2
- Design for Disassembly: Mat - 9, 1
- Dematerialisation: Mat - 10, 1
- Local sourcing: Mat - 11, 2
- **TOTAL**: 22

### Land Use & Ecology
- Conditional Requirement: Eco - 0
- Toppol: Eco - 1, 1
- Reuse of Land: Eco - 2, 2
- Redeemed Contaminated Land: Eco - 3, 2
- Change of Ecological Value: Eco - 4, 4
- **TOTAL**: 9

### Emissions
- Refrigerant / Gaseous ODP: Emi - 1, 1
- Refrigerant GWP: Emi - 2, 2
- Refrigerant Leaks: Emi - 3, 2
- Insulant ODP: Emi - 4, 1
- Watercourse Pollution: Emi - 5, 3
- Discharge to Sown: Emi - 6, 5
- Light Pollution: Emi - 7, 1
- Legionella: Emi - 8, 1
- Boiler and Generator Emissions: Emi - 9, 1
- **TOTAL**: 17

### Innovation
- Innovative Strategies & Technologies: Inn-1, 2
- Exceeding Green Star SA Benchmarks: Inn-2, 2
- Environmental Design Initiatives: Inn-3, 1
- **TOTAL**: 5
AIM OF CREDIT

To encourage and recognise management practices that minimise the amount of construction waste going to disposal.

CREDIT CRITERIA

Up to three points are awarded where:

- The contractor implements a Waste Management Plan (WMP), retains waste records and issues quarterly reports to the building owner; AND
- A percentage (by mass) of all demolition and construction waste is reused or recycled as follows:
  - One point for 30% of the waste;
  - Two points for 50% of waste; and
  - Three points for 70% of waste.

DOCUMENTATION REQUIREMENTS

It must be clearly demonstrated that evidence accounts for all of the demolition and construction waste, that the stipulated proportion of waste has been reused or recycled, and that the owner will be informed of this process on a quarterly basis.

If any component of the project is delivered as shell and core or integrated fit-out, please refer to the Additional Guidance section for applicable submission requirements.

<table>
<thead>
<tr>
<th>Green Star SA – Office Design</th>
<th>Green Star SA – Office As - Built</th>
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<tbody>
<tr>
<td>Submit all the evidence and ensure it readily confirms compliance.</td>
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<tr>
<td>- Extract(s) from the contract(s)</td>
<td>- Short report</td>
</tr>
<tr>
<td>- Extract(s) from the tender documentation</td>
<td>- Waste Management Plan</td>
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</tbody>
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FORMAL RATING & CERTIFICATION

DESIGN/CONSTRUCT

DOCUMENT

SUBMIT

REVIEWS & COMMENT

SUBMIT FINAL DOCUMENTATION

FINAL SCORE

AWARD CERTIFICATION
ENERGY

Lighting
Heating, cooling & ventilation
Building automation
Power systems
WATER

Fixtures and fittings
Landscape irrigation
Heat rejection for cooling
Metering
MATERIALS

Sustainable sources
Recycled content
Reused materials
Building reuse
Design for the future
OPTIONS

1) Adopt an existing tool with minimal or no changes
2) Adapt an existing tool with changes for location
3) Create a new tool customized for location