KEY DESIGN PROPERTIES
FOR ECO-DESIGN
Schmidt-Bleek

MANUFACTURING
* material intensity (materials, processes)
* energy intensity (materials, processes)
* renewable resource inputs
* useful material outputs
* waste intensity
* refusal rate
* transport intensity
* packaging intensity
hazardous materials

USE, CONSUMPTION
* material throughput
* energy input
* weight
* self control, self optimization
* multi-functionality
* potential for subsequent (different) uses
* potential for joint (e.g. several families) uses
size
area coverage
dispersive hazardous material outputs

* longevity
  * availability of spare parts for extended time period
  * surface properties
  * anti-corrosivity
  * repairability, exchangeability of parts
  * structure and ease to dis-assemble
  * robustness, reliability
  * likelihood of material fatigue
  * adaptability to technical progress

AFTER FIRST USE
* low MIPS collecting and sorting potentials
* re-usability
* usability for different purposes
* re-manufacturing potential for same use
* material composition and complexity (ease of re-cycling
  for chemical/metalurgical reasons)
* re-cycling potential of parts and materials for same or
  other uses

DISPOSAL
* combustion potential (usable energy outputs)
potential for composting
impacts on environment after disposal

* = Considered by MIPS