

AIA – Committee On The Environment / ASHRAE – Sustainable Design Committee

How Architects And Engineers Can Work Together Using The LEED Process

Tuesday, September 21st, 2004

Architects – how much square footage for me

Engineers – integrate with architects

More collaboration when design is conceptual

1. Architects
 - a. Start prior to contracts
 - b. MER – pump room, penthouse, closet
 - c. Location of MER
 - d. Workshops (green) – need to be productive
 - e. Qualified sub-contractors
2. How can the engineer get on board prior to contract/concept phase
 - a. Rules of thumb
 - b. Software program – architects would like square foot in program for engineers “rules of thumb” requirements
 - c. Engineers – spaces in the right place
3. New paradigm
 - a. Typical design process versus using alternative systems/materials – requires “what-if” scenarios to determine impact, which requires a collaborative effort between the architect and engineer
 - b. Mechanical engineer wants early input (especially for the above)
 - c. Change traditional roles – architect in “control”
 - d. Building materials – the energy efficient
4. Down sized buildings
 - a. No incentives in fees
 - b. Paid for knowledge (new concept)
5. Early involvement (structural, contractors, etc..)
 - a. Schematic occurring during development of delivery method
 - b. Getting owner “educated” about the process
 - c. Owners budget sets scope
 - d. Evaluation