ASTM International’s **Green Roof Activities**

An Update as of 31 Oct 06

(presented as an US EPA teleconference)

Michael F Gibbons, FCSI, CCPR
Chairman - ASTM Green Roof Task Group
ASTM’s ORGANIZATION

- Task Group
- Subcommittee
- Main Committee
- Diversity & Inclusion is Important
The Beginning

- 2000 - task group organized (E06.71.07)

- Under Subcommittee E06 - Building Sustainability

- 25 members: architects, scientists, roofing contractors, manufacturers, academicians
Plants

Lightweight soil

Filter fabric

Water drainage/retention & aeration layer(s)

Root barrier/protection

Quality waterproofing
The Challenges

- Design - what do you include?
- Intensive vs Extensive
- Membrane
- Root Barrier
- Drainage & Water Retention
The Challenges (cont.)

- Insulation
- Filter Fabric
- Growing Media
- Plants
- Irrigation
The Beginning (cont.)

- Used German FLL as an outline & guide

- “Divide and Conquer”

- Smaller pieces make it easier to get consensus
CONSENSUS ORGANIZATION
(therefore compromise)

• All standards are balloted at three levels:
  • Task Group
  • Subcommittee
  • Main Committee
VOTING

- Every valid negative vote must be adjudicated at each level:
  - withdrawn
  - voted non-persuasive
  - suggested changes incorporated
ASTM = COMPROMISE

• Every valid negative vote must be adjudicated at each level:
  • withdrawn
  • voted non-persuasive
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• THEREFORE, APPROACH THEM AS MINIMUM REQUIREMENTS
After each proposed standard has been approved at all levels:

- Submitted to ASTM staff
- Accepted by staff & legal
- Published (usually 3 - 6 months later)
Current Standard
Available from ASTM


All current standards are available for purchase from: astm.org
Current Standard Available from ASTM

E2397-05 Standard Practice for Determination of Dead Loads and Live Loads Associated with Green Roof Systems
Current Standard
Available from ASTM

Current Standard
Available from ASTM

E2399-05  Standard Test Method for Maximum Media Density for Dead Load Analysis of Green Roof Systems
Current Standard
Available from ASTM

E2400-06 Standard Guide for Selection, Installation, and Maintenance of Plants for Green Roof Systems
Proposed Standards under development (5)

New

WK4236  Practice for Assessment of Green Roofs
Proposed Standards under development (5)

New

**WK7319**  Guide for Use of Expanded Shale, Clay or Slate (ESCS) as a mineral component in Growing Media for Green Roof Systems
Proposed Standards under development

The balance of our work is on revisions to the existing standards cited earlier
I invite you to join my group:

E06.71.07 Green Roof Systems

next meeting: 15 April 2007 in Norfolk, VA
Michael F. Gibbons, FCSI, CCPR
Chairman - ASTM Green Roof Task Group

President:
Architectural Systems, Inc.
4470 Spring Valley Road
Dallas, TX 75244
voice: 972-960-8726
archsys1@aol.com
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(31 Oct 06)

Presented by
Michael F Gibbons, FCSI, CCPR
Chairman - ASTM Green Roof Task Group

archsys1@aol.com