

Setting Standards for Building/Sustainability

ASTM International /Committee E60

December 8, 2010
PERSI at Ecobuild



INTERNATIONAL

What is ASTM?

An Introduction to ASTM International

- Voluntary consensus standards for materials, products, systems and services
- Standards for more than 100 industrial and management sectors
- Proven, practical, vital
- Established in 1898



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What is ASTM International?

- Globally relevant, technically excellent
 - Complies with World Trade Organization principles for the development of international standards; Annex 4 of WTO Technical Barriers to Trade Agreement
 - All stakeholders invited
 - Public and private sector cooperation
 - Electronic tools for document development and delivery
 - Standards used in research and development, product testing and quality systems



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ASTM International Today

ASTM International Committees, Standards and Members

- **141** Technical committees
- **12,000** Standards
- **30,000+** Members
- **7,800+** International members from 135 countries
- **4,400+** ASTM standards used in 75 countries



‘Audited Designator’
accreditation:
American National
Standards Institute



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ASTM International and Sustainability

Many ASTM International committees address sustainability: infrastructure/built environment, water, agriculture, energy, products, waste, materials, and toxics (partial list):

- C01 on Cement
- C09 on Concrete and Concrete Aggregates
- C16 on Thermal Insulation
- D02 on Petroleum Products and Lubricants
- D03 on Gaseous Fuels
- D04 on Road and Paving Materials
- D05 on Coal and Coke
- D18 on Soil and Rock
- D19 on Water
- D20 on Plastics
- D22 on Air Quality
- D34 on Waste Management
- E06 on Performance of Buildings
- E35 on Pesticides and Alternative Control Agents
- E44 on Solar, Geothermal and Other Alternative Energy Sources
- E47 on Biological Effects and Environmental Fate
- E48 on Biotechnology
- E50 on Environmental Assessment, Risk Management and Corrective Action
- F40 on Declarable Substances in Materials



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Committee E60 Facts and Figures

- Committee Established October 2008
- 700+ Members
- Technical Subcommittees
 - E60.01 Buildings and Construction
 - E60.02 Hospitality
 - E60.80 General Sustainability Standards
- Administrative Subcommittees
 - E60.90 Executive
 - E60.91 Strategic Planning
 - E60.95 Student Liaison and Affairs



ASTM Sustainability Database

<http://www.astm.org/COMMIT/sustain.html>

- 500+ ASTM standards
- 300+ standards from other organizations
- Open submission process



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Standard Compilation

- *ASTM Standards for Sustainability in Buildings*
CD-ROM containing almost 150 ASTM standards that address the sustainable design, construction, and operation of products used in building



E60 Current Sustainability Standards

- Sustainability Standards
 - 13 published standards for sustainable buildings and construction
 - Key document: ASTM E2432, Standard Guide for General Principles of Sustainability Relative to Buildings
 - E2114, Terminology for Sustainability Relative to the Performance of Buildings



E60 Standards under Development

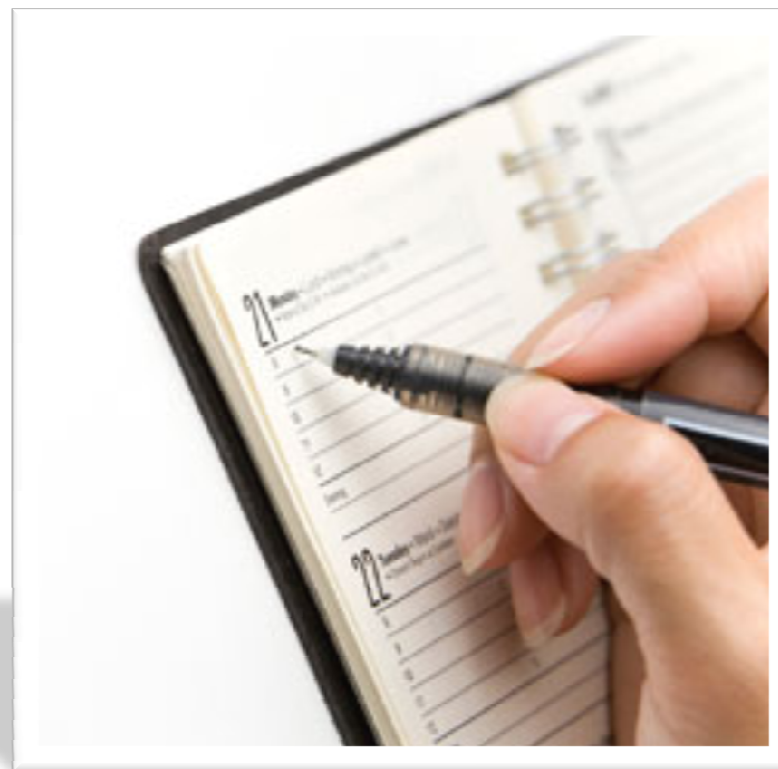
- Draft Standards

- ✧ Minimum requirements for a building promoting sustainability
- ✧ Whole Building LCA
- ✧ Assessing rain water quality and water stewardship
- ✧ Marketing and product claims related to sustainable buildings
- ✧ Product Category Rules
- ✧ Extended Producer Responsibility
- ✧ Chain of Custody
- ✧ General Principles
- ✧ Green Roof Systems
- ✧ 9 draft standards for sustainability in hospitality



Future Meetings

- April 12-14, 2011
Anaheim, CA
- November 1-3, 2011
Tampa, FL



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Thank you

For more information about ASTM Committee E60

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