This is a guidance document with sample specification language intended to be inserted into project specifications on this subject as appropriate to the agency's environmental goals. Certain provisions, where indicated, are required for U.S. federal agency projects. Sample specification language is numbered to clearly distinguish it from advisory or discussion material. Each sample is preceded by identification of the typical location in a specification section where it would appear using the SectionFormatTM of the Construction Specifications Institute; the six digit section number cited is per CSI MasterformatTM 2004 and the five digit section number cited parenthetically is per CSI MasterformatTM 1995.

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SECTION 01 42 00 (SECTION 01421) -REFERENCES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes:
 - Environmental reference standards cited in the Contract Documents.

1.2 DEFINITIONS

- A. Definitions pertaining to sustainable development: As defined in ASTM E2114 and as specified herein.
- B. Biobased Materials: As defined in the Farm Security and Rural Investment Act, for purposes of Federal procurement of biobased products, "biobased" means a "commercial or industrial product (other than food or feed) that is composed, in whole or in significant part, of biological products or renewable domestic agricultural materials (including plant, animal, and marine materials) or forestry materials." Biobased materials also include fuels, chemicals, building materials, or electric power or heat produced from biomass as defined by The Biomass Research and Development Act of 2000.

SPECIFIER NOTE:

According to the January 11, 2005 U.S. Department of Agriculture (USDA) Guidelines for Designating Biobased Products for Federal Procurement, biobased content is a percentage of the carbon in the product. The USDA will recommend the minimum biobased content of biobased products designated in the Federal Biobased Products Preferred Procurement Program, 7 CFR Part 2902. For current designations under the Federal Biobased Products Preferred Procurement Program (FB4P), refer to www.biobased.oce.usda.gov.

- 1. Biobased content: The amount of biobased carbon in the material or product as a percentage of weight (mass) of the total organic carbon in the material or product.
- C. Chain-of-Custody: Process whereby a product or material is maintained under the physical possession or control during its entire life cycle.
- D. Deconstruction: Disassembly of buildings for the purpose of recovering materials.

SPECIFIER NOTE:

Refer to ISO Guide 64 and EPA's website at http://www.epa.gov/dfe/ for additional clarification on Design for the Environment.

E. DfE (Design for the Environment): A technique that includes elements of resource conservation and pollution prevention as applied in various product sectors. A technique that incorporates approaches which are part of product (or assembly) concept, need and design. Considerations involve material selection, material and energy efficiency, reuse,

maintainability and design for disassembly and recyclability. Refer to ISO Guide 64 for additional clarification.

SPECIFIER NOTE:

EO 13423 defines Environmentally Preferable Products as "...products or services that have a lesser or reduced effect on the environment when compared with competing products or services that serve the same purpose". EO13514, which expands EO13423, requires Federal Agencies to "advance sustainable acquisition" to ensure that 95 percent of new purchases are: energy-efficient, water-efficient, biobased, environmentally preferable, non-ozone depleting, contain recycled content, or are non-toxic or less toxic alternatives, where such products and services meet agency performance requirements.

The EPA provides Guidance on the Acquisition of Environmentally Preferable Products and Services. For EPA's guidance, go to http://www.epa.gov/epp/pubs/guidance/index.htm
Guidance on specific products or product categories is found on the Green Products Compilation created by the Office of the Federal Environmental Executive (OFEE).

http://www.fedcenter.gov/Documents/index.cfm?id=11767&pge_prg_id=20257

- F. Environmentally preferable products: products or services that have a lesser or reduced effect on the environment when compared with competing products or services that serve the same purpose.
- G. Non-Renewable Resource: A resource that exists in a fixed amount that cannot be replenished on a human time scale. Non-renewable resources have the potential for renewal only by geological, physical, and chemical processes taking place over of millions of years. Examples include: iron ore, coal, and oil.
- H. Perpetual Resource: A resource that is virtually inexhaustible on a human time scale. Examples include solar energy, tidal energy, and wind energy.
- I. Recycled Content Materials: Products that contain preconsumer or post-consumer materials as all or part of their feedstock. Recycled content claim shall be consistent with Federal Trade Commission (FTC) Guide for the Use of Environmental Marketing Claims.

SPECIFIER NOTE:

A renewable resource can be exhausted if improperly managed. However, a renewable resource can last indefinitely with proper stewardship. Examples include: trees in forests, grasses in grasslands, and fertile soil. USGBC-LEED uses the term in reference to plants.

- J. Renewable resource: a resource that is grown, naturally replenished, or cleansed, at a rate which exceeds depletion of the usable supply of that resource.
 - 1. Rapidly renewable material: Material made from plants that are typically harvested within a ten-year cycle.
- K. Stewardship: Responsible use and management of resources in support of sustainability.

SPECIFIER NOTE:

Under EO 13423, sustainable' means "to create and maintain conditions, under which humans and nature can exist in productive harmony, that permit fulfilling the social, economic, and other requirements of present and future generations of Americans"

The following definition is consistent with the EO and with ASTM E2114.

L. Sustainability: The maintenance of ecosystem components and functions for future generations.

1.3 QUALITY ASSURANCE

- A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
- B. Publication Dates: Comply with standards in effect as of date of the Contract Documents, unless otherwise indicated.
- C. Conflicting Requirements: Where compliance with two or more standards is specified, and the standards may establish different or conflicting requirements for minimum quantities or quality levels comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to Architect for a decision before proceeding.

1.4 ABBREVIATIONS AND ACRONYMS

SPECIFIER NOTE:

Delete entries below if not referenced in Specifications. List below includes examples. Verify contact information is still current. Edit to suit location and project.

A. Industry and Non-Profit Associations:

AF&PA (American Forest & Paper Association): 1111 19th Street, NW Suite 800; Washington, DC 20036; 202-463-2712; http://www.sfiprogram.org/

AGC (Associated General Contractors of America): (703) 548-3118; www.agc.org

AISC (American Institute of Steel Construction): (312) 670-2400 www.aisc.org/sustainability

ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.); 1791 Tullie Circle, N.E., Atlanta, GA 30329; 404-636-8400; www.ashrae.org

ASLA (American Society of Landscape Architects): 636 Eye Street, NW; Washington, DC 20001-3736; 202-898-2444; www.asla.org

ASTM International (American Society for Testing and Materials International): 100 Barr Harbor Drive, PO Box C700; West Conshohocken, Pennsylvania, 19428-2959; 610-832-9585; www.astm.org

CFPC (Certified Forest Products Council): 721 NW 9th Avenue, Suite 300; Portland, OR 97209; 503 -224-2205; www.certifiedwood.org

CIMA (Cellulose Insulation Manufacturers Association); (888) 881-2462; www.cellulose.org

CRI (Carpet & Rug Institute): (800) 882-8846; www.carpet-rug.com

FSC (Forest Stewardship Council): 1155 30th Street NW Suite 300; Washington D.C. 20007; 202 342 0413; www.fscus.org

GS (Green Seal): 1001 Connecticut Avenue, NW; Suite 827; Washington, DC 20036-5525; (202) 872-6400; http://www.greenseal.org/

Habitat for Humanity: (800) HABITAT http://www.habitat.org/

IEEE (Institute of Electrical and Electronics Engineers): http://www.ieee.org/portal/site

IESNA (Illuminating Engineering Society of North America): (212) 248-5000; www.iesna.org

IGMA (Insulating Glass Manufacturers Alliance): (613) 233-1510; www.igmaonline.org

ISO (International Organization of Standardization): www.iso.ch/iso/en/ISOOnline.frontpage

NAAQS (National Ambient Air Quality Standards): http://www.epa.gov/air/criteria.html

NAHB (National Association of Home Builders): 800-898-2842; www.nahbrc.org

NAIMA (North American Insulation Manufacturers Association): (703) 684-0084; www.naima.org

NEBB (National Environmental Balancing Bureau): (301) 977-3698; www.nebb.org

NFRC (National Fenestration Rating Council): (301) 589-6372; www.nfrc.org

NRMCA (National Ready-Mixed Concrete Association): (301) 587-1400; http://www.nrmca.org/

NSF International (National Sanitation Foundation International): (800) 673-6275 or (734) 769-8010; www.nsf.org

SRI (Steel Recycling Institute): (800) 937-1226 http://www.recycle-steel.org/

USGBC (US Green Building Council): 1015 18th Street, NW, Suite 805; Washington, DC 20036; (202) 82-USGBC or 828-7422; www.usgbc.org

WDMA (Window & Door Manufacturers Association): (800) 223-2301 or (847) 299-5200; www.wdma.com

B. Federal Agencies:

CE (Army Corps of Engineers): www.usace.army.mil

CPC (Consumer Product Safety Commission): (800) 638-2772; www.cpsc.gov

EPA (Environmental Protection Agency): (202) 272-0167; www.epa.gov

DOD (Department of Defense): www.dod.gov

DOE (Department of Energy): www.doe.gov

FDA (Food and Drug Administration): (888) 463-6332; www.fda.gov

FTC (Federal Trade Commission): www.ftc.gov

GSA (General Services Administration): (202) 708-5082; www.gsa.gov

HUD (Department of Housing and Urban Development): (202) 708-1112: www.hud.gov

LBL (Lawrence Berkeley National Laboratory): (510) 486-5605; www.lbl.gov

NIST (National Institute of Standards and Technology: (301) 975-6478; www.nist.gov

OSHA (Occupational Safety & Health Administration): (800) 321-6742; www.osha.gov

USDA (Department of Agriculture): (202) 720-2791; www.usda.gov

C. State and Local Agencies:

CAL-MAX (California Materials Exchange) Program sponsored by the California Integrated Waste Management Board (916) 255-2369.

CPUC (California Public Utilities Commission): (415) 703-2782; www.cpuc.ca.gov

Michigan Department of Environmental Quality; 517-373-1322.

Texas Commission on Environmental Quality (formerly Texas Natural Resources Conservation Commission): TCEQ, Contact Name, Building Letter, 12100 Park 35 Circle, Austin, TX 78753; 512/239-1000; http://163.234.20.106/

1.5 REFERENCED STANDARDS

SPECIFIER NOTE:

Delete entries below if not referenced in Specifications. List below includes standards referenced in the model specifications. Standards are being developed rapidly by many segments of the building industry to support market demands for products and services that address environmental issues. Edit to suit location and project.

A. American Association of State Highway and Transportation Officials (AASHTO): AASHTO M288 Geotextile Specification for Highway Applications

MP009-06 Standard Specification for Compost for Erosion/Sediment Control (Filter Berms and Filter Socks)

MP010-03 Standard Specification for Compost for Erosion/Sediment Control (Compost Blankets)

B. American Forest and Paper Association:

Sustainable Forestry Initiative

C. American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE):

ASHRAE 52.2, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size

ASHRAE 55, Thermal Environmental Conditions for Human Occupancy

ASHRAE 62.1. Ventilation for Acceptable Indoor Air Quality

ASHRAE 62.2, Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings

ASHRAE/IESNA 90.1, Energy Standard for Buildings, Except Low-Rise Residential Buildings

ASHRAE 90.2, Energy Efficient Design of Low-Rise Residential Buildings

D. American Society of Landscape Architects

Sustainable Sites Initiative

E. American Society of Mechanical Engineers (ASME):

A112.19.2 Ceramic Plumbing Fixtures

A112.19.14 Six-Liter Water Closets Equipped with a Dual Flushing Device

F. American Society for Testing and Materials International (ASTM) International:

A478 Standard Specification for Chromium-Nickel Stainless Steel Weaving and Knitting Wire

A580/A580M Standard Specification for Stainless Steel Wire

A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

B813 Standard Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube

C1240 Standard Specification for Silica Fume Used in Cementitious Mixtures C128 Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate

C131 Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine

C1319 Standard Specification for Concrete Grid Paving Units

C1338 Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings

C136 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates

C1371 Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers

C1386 Standard Specification for Precast Autoclaved AERATED Concrete (PAAC) Wall Construction Units

C1483 Standard Specification for Exterior Solar Radiation Control Coatings on Buildings C1549 Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer

C1601 Standard Test Method for Field Determination of Water Penetration of Masonry Wall Surfaces

C1688 Standard Test Method for Density and Void Content of Freshly Mixed Pervious Concrete

C1701 Standard Test Method for Infiltration Rate of In Place Pervious Concrete

C289 Standard Test Method for Potential Alkali-Silica Reactivity of Aggregates (Chemical Method)

C311 Test Methods for Sampling and Testing Fly Ash or Natural Possolans for Use as a Mineral Admixture in Portland-Cement Concrete

C33 Standard Specification for Concrete Aggregates

C593 Standard Specification for Fly Ash and Other Pozzolans for Use With Lime

C595 Standard Specification for Blended Hydraulic Cements

C618 Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Concrete

C67 Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile C739 Standard Specification for Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation

C936 Standard Specification for Interlocking Concrete Paver Units

C989 Standard Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars

D1435 Standard Practice for Outdoor Weathering of Plastics

D1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³(2,700 kN-m/m³))

D1972 Standard Practice for Generic Marking of Plastic Products

D198 Standard Test Methods of Static Tests of Lumber in Structural Sizes

D2103 Standard Specification for Polyethylene Film and Sheeting

D217 Standard Test Methods for Cone Penetration of Lubricating Grease

D2344 Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates

D2369 Standard Test Method for Volatile Content of Coatings

D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber

D3786 Standard Test Method for Hydraulic Bursting Strength of Textile Fabrics-Diaphragm Bursting Strength Tester Method

D3792 Standard Test Method for Water Content of Coatings by Direct Injection Into a Gas Chromatograph

D3864 Standard Guide for Continual On-Line Monitoring Systems for Water Analysis D3960 Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings

D4017 Standard Test Method for Water in Paints and Paint Materials by Karl Fischer Method

D4263 Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method

D4444 Standard Test Methods for Use and Calibration of Hand-Held Moisture Meters D4491 Standard Test Methods for Water Permeability of Geotextiles by Permittivity

D4552 Standard Practice for Classifying Hot-Mix Recycling Agents

D4632 Standard Test Method for Grab Breaking Load and Elongation of Geotextiles

D4716 Test Method for Determining the (In-plane) Flow Rate per Unit Width and

Hydraulic Transmissivity of a Geosynthetic Using a Constant Head

D4833 Standard Test Method for Index Puncture Resistance of Geotextiles.

Geomembranes, and Related Product

D4840 Standard Guide for Sampling Chain-of-Custody Procedures

D4887 Standard Test Method for Preparation of Viscosity Blends for Hot Recycled Bituminous Materials

D5106 Standard Specification for Steel Slag Aggregates for Bituminous Paving Mixtures

D5116 Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/Products

D5199 Standard Test Method for Measuring the Nominal Thickness of Geosynthetics

D5261 Standard Test Method for Measuring Mass per Unit Area of Geotextiles

D5268 Standard Specification for Topsoil Used for Landscaping Purposes

D5359 Standard Specification for Glass Cullet Recovered from Waste for Use in Manufacture of Glass Fiber

D5505 Standard Practice for Classifying Emulsified Recycling Agents

D5539 Standard Specification for Seed Starter Mix

D5957 Standard Guide for Flood Testing Horizontal Waterproofing Installations

D5603 Standard Classification for Rubber Compounding Materials—Recycled

Vulcanizate Particulate Rubber

D5663 Standard Guide for Validating Recycled Content in Packaging Paper and Paperboard

D5759 Standard Guide for Characterization of Coal Fly Ash and Clean Coal Combustion Fly Ash for Potential Uses

D5792 Standard Practice for Generation of Environmental Data Related to Waste Management Activities: Development of Data Quality Objectives

D5851 Standard Guide for Planning and Implementing a Water Monitoring Program

D5852 Standard Test Method for Erodibility Determination of Soil in the Field or in the Laboratory by the Jet Index Method

D6002 Standard Guide for Assessing the Compostability of Environmentally Degradable

D6006 Standard Guide for Assessing Biodegradability of Hydraulic Fluid

D6007 Standard Test Method for Determining Formaldehyde Concentration in Air from Wood Products Using a Small Scale Chamber

D6046 Standard Classification of Hydraulic Fluids for Environmental Impact

D6081 Standard Practice for Aquatic Toxicity Testing of Lubricants: Sample Preparation and Results Interpretation

D6108 Standard Test Method for Compressive Properties of Plastic Lumber and Shapes

D6109 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastic Lumber

D6112 Standard Test Methods for Compressive and Flexural creep and Creep-Rupture of Plastic Lumber and Shapes

D6117 Standard Test Methods for Mechanical Fasteners In Plastic Lumber and Shapes

D6155 Standard Specification for Nontraditional Coarse Aggregates for Bituminous Paving Mixtures

D6245 Standard Guide for Using Indoor Carbon Dioxide Concentrations to Evaluate Indoor Air Quality and Ventilation

D6261 Standard Specification for Extruded and Compression Molded Basic Shapes Made from Thermoplastic Polyester (TPES)

D6262 Standard Specification for Extruded, Compression Molded, and Injection Molded Basic Shapes of Poly(aryl ether ketone) (PAEK)

D6270 Standard Practice for Use of Scrap Tires in Civil Engineering Applications

D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers

D6330 Standard Practice for Determination of Volatile Organic Compounds (Excluding Formaldehyde) Emissions from Wood-Based Panels Using Small Environmental Chambers Under Defined Test Conditions

D6345 Standard Guide for Selection of Methods for Active, Integrative Sampling of Volatile Organic Compounds in Air

D6400 Standard Specification for Compostable Plastics

D6629 Standard Guide for Selection of Methods for Estimating Soil Loss by Erosion

D6662 Standard Specification for Polyolefin-Based Plastic Lumber Decking Boards

D6712 Standard Specification for Ultra-High-Molecular-Weight Polyethylene (UHMW-PE) Solid Plastic Shapes

D6886 Standard Test Method for Speciation of the Volatile Organic Compounds (VOCs) in Low VOC Content Waterborne Air-Dry Coatings by Gas Chromatograpy

D692 Standard Specification for Coarse Aggregate for Bituminous Paving Mixtures D696 Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics

Between -30°C and 30°C With a Vitreous Silica Dilatometer

D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³))

D7186 Standard Practice for Quality Assurance Observation of Roof Construction and Repair

E105 Standard Practice for Probability Sampling Of Materials

E178 Standard Practice for Dealing With Outlying Observations

E1021 Standard Test Methods for Measuring Spectral Response of Photovoltaic Cells

E1038 Standard Test Method for Determining Resistance of Photovoltaic Modules to Hail by Impact with Propelled Ice Balls

E1040 Standard Specification for Physical Characteristics of Nonconcentrator Terrestrial Photovoltaic Reference Cells

E1105 Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform or Cyclic Static Air Pressure Difference

E1171 Standard Test Method for Photovoltaic Modules in Cyclic Temperature and Humidity Environments

E1333 Standard Test Method for Determining Formaldehyde Concentrations in Air and Emission Rates from Wood Products Under Defined Test Conditions Using a Large Chamber

E1362 Standard Test Method for Calibration of Non-Concentrator Photovoltaic Secondary Reference Cells

E1433 Standard Guide for Selection of Standards on Environmental Acoustics

E1462 Standard Test Methods for Insulation Integrity and Ground Path Continuity of Photovoltaic Modules

E1557 Standard Classification for Building Elements and Related Sitework - UNIFORMAT II

E1597 Standard Test Method for Saltwater Pressure Immersion and Temperature Testing of Photovoltaic Modules for Marine Environments

E1609 Standard Guide for Development and Implementation of a Pollution Prevention Program

E1686 Standard Guide for Selection of Environmental Noise Measurements and Criteria

E1690 Standard Test Method for Determination of Ethanol Extractives in Biomass

E1721 Standard Test Method for Determination of Acid-Insoluble Residue in Biomass

E1755 Standard Test Method for Ash in Biomass

E1758 Standard Test Method for Determination of Carbohydrates in Biomass by High Performance Liquid Chromatography

E1780 Standard Guide for Measuring Outdoor Sound Received from a Nearby Fixed Source

E1799 Standard Practice for Visual Inspections of Photovoltaic Modules

E1802 Standard Test Methods for Wet Insulation Integrity Testing of Photovoltaic Modules

E1821 Standard Test Method for Determination of Carbohydrates in Biomass by Gas Chromatography

E1827 Standard Test Methods for Determining Airtightness of Buildings Using an Orifice Blower Door

E1830 Standard Test Methods for Determining Mechanical Integrity of Photovoltaic Modules

E1918 Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field

E1971 Standard Guide for Stewardship for the Cleaning of Commercial and Institutional Buildings

E1980 Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces

E1991 Standard Guide for Environmental Life Cycle Assessment of Building Materials/Products

E2047 Standard Test Method for Wet Insulation Integrity Testing of Photovoltaic Arrays E2114 Standard Terminology for Sustainability Relative to the Performance of Buildings

E2128 Standard Guide for Evaluating Water Leakage of Building Walls

E2129 Standard Practice for Data Collection for Sustainability Assessment of Building Products

E2277 Standard Guide for Design and Construction of Coal Ash Structural Fills

E2348 Standard Guide for Framework for Consensus-Based Environmental Decision-Making Process

E2397 Standard Practice for Determination of Dead Loads and Live Loads associated with Green Roof Systems

E2398 Standard Test Method for Water Capture and Media Retention of Geocomposite Drain Layers for Green Roof Systems

E2399 Standard Test Method for Maximum Media Density for Dead Load Analysis of Green Roof Systems

E2400 Standard Guide for Selection, Installation, and Maintenance of Plants for Green Roof Systems

E241 Standard Guide for Limiting Water-Induced Damage to Buildings

E2432 Standard Guide for General Principles of Sustainability Relative to Buildings

E2635 Standard Practice for Water Conservation in Buildings Through In-Situ Water Reclamation

E408 Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques

E413 Standard Classification for Rating Sound Insulation

E477 Standard Test Method for Measuring Acoustical and Airflow Performance of Duct Liner Materials and Prefabricated Silencers

E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source

E683 Standard Practice for Installation and Service of Solar Space Heating Systems for One- and Two-Family Dwellings

E779 Standard Test Method for Determining Air Leakage Rate by Fan Pressurization

E781 Standard Practice for Evaluating Absorptive Solar Receiver Materials When

Exposed to Conditions Simulating Stagnation in Solar Collectors With Cover Plates

E782 Standard Practice for Exposure of Cover Materials for Solar Collectors to Natural Weathering Under Conditions Simulating Operational Mode

E823 Standard Practice for Nonoperational Exposure and Inspection of a Solar Collector E881 Standard Practice for Exposure of Solar Collector Cover Materials to Natural Weathering Under Conditions Simulating Stagnation Mode

E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

E948 Standard Test Method for Electrical Performance of Photovoltaic Cells Using Reference Cells Under Simulated Sunlight

F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

F2034 Standard Specification for Sheet Linoleum Floor Covering

F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes

G166 Standard Guide for Statistical Analysis of Service Life Data G172 Standard Guide for Statistical Analysis of Accelerated Service Life Data

G. Bat Conservation International:

Bat Approved Bat Houses

H. Carpet and Rug Institute

Green Label Testing Programs
Green Label Plus Testing Programs

Center for Resource Solutions

Green-e program

J. EPA:

Comprehensive Procurement Guidelines
Design for the Environment
ENERGY STAR
Environmentally Preferable Purchasing Program Final Guidance
GreenScapes program
Heat Island Initiative
Indoor Air Quality Building Education and Assessment Model (I-BEAM)
Plug-in to eCycling
Pollution Prevention (P2)
Product Stewardship Program
Significant New Alternatives Policy (SNAP) Program

K. Federal Trade Commission:

Guide for the Use of Environmental Marketing Claims

L. Forest Stewardship Council:

Chain-Of-Custody Forest Management

M. Green Building Initiative (GBI):

Green Globes - US

N. Green Electronics Council:

Electronic Product Environmental Assessment Tool (EPEAT)

O. Green Seal:

GC-12 Occupancy Sensors GS-11 Paints GS-13 Windows

GS-14 Window Films

GS-31 Electric Chillers

GS-36 Commercial Adhesives

GS-37 Industrial & Institutional Cleaners

P. Illuminating Engineering Society of North America:

IESNA RP-33 Lighting for Exterior Environmentls

Q. Institute of Electrical and Electronics Engineers:

IEEE 1680 Standard for Environmental Assessment of Personal Computer Products, Including Laptop Personal Computers, Desktop Personal Computers, and Personal Computer Monitors

R. International Code Council

ICC-700-2008 National Green Building Standard

S. International Iron and Steel Institute:

CO₂ Breakthrough Program

T. International Organization of Standardization:

Guide 64; Guide for Inclusion of Environmental Aspects in Product Standards 9660 Information processing -- Volume and file structure of CD-ROM for information interchange

14001 Environmental management systems – Specification with guidance for use 14004 Environmental Management Systems – General Guidelines on Principles, Systems and Supporting Techniques

14020 Environmental labels and declarations – General principles

14024 Environmental labels and declarations – Type I environmental labeling - Principles and procedures

14040 Environmental management – Life cycle assessment – Principles and framework 15686-1, Buildings and constructed assets — Service life planning — Part 1: General principles

U. National Association of Home Builders:

Advanced Framing Techniques: Optimum Value Engineering

V. National Institute of Building Sciences:

MOIST program for transfer of heat and moisture Whole Building Design Guide

W. National Institute of Standards and Technology:

BEES (Building for Environmental and Economic Sustainability) Lifecycle Decision Support Tool

X. NSF International:

BIFMA e3-2008 Furniture Sustainability Standard

Draft NSF 332 Sustainability Assessment for Resilient Floor Coverings

Draft NSF 342 Sustainability Assessment for Wallcovering Products

Draft NSF 347 Sustainability Assessment for Single Ply Roofing

Draft NSF/GCI 355 Green Chemicals

NSF/ANSI 140 Sustainable Carpet Assessment

Pipe Certification for Reclaimed Water End Use

Whole Building Design Guide Federal Green Construction Guide for Specifiers

Y. Sheet Metal and Air Conditioning Contractors' National Association

IAQ Guidelines for Occupied Buildings Under Construction

Z. Southcoast Air Quality Management District

1168 Adhesive And Sealant Applications

AA. US Composting Council

Seal of Testing Assurance Program

BB. US Department of Agriculture:

Biobased Products – Definitions and Descriptions

CC. US Green Building Council:

LEED™ v3 Green Building Rating System

PART 2 - PRODUCTS

PART 3 - EXECUTION

END OF SECTION