

Referenced Standards: IP category

Integrative Process (IP) Referenced Standards

- IPP Integrated Project Planning and Design (healthcare only)
 - None
- IPC Integrative Process
 - ANSI Consensus National Standard Guide© 2.0 for Design and Construction of Sustainable Buildings and Communities

Referenced Standards: LT category

Location and Transportation (LT) Referenced Standards

- **LTc LEED for Neighborhood Development Location**
 - None
- **LTc Sensitive Land Protection**
 - U.S. Department of Agriculture, U.S. Code of Federal Regulations Title 7, Volume 6, Parts 400 to 699, Section 657.5
 - FEMA Flood Zone Designations
 - U.S. Fish and Wildlife Service, List of Threatened and Endangered Species
 - NatureServe Heritage Program, GH, G1, and G2 species and ecological communities
- **LTc High Priority Site**
 - U.S. Environmental Protection Agency, National Priority List
 - U.S. Housing and Urban Development, Federal Empowerment Zone, Federal Enterprise Community, and Federal Renewal Community
 - U.S. Department of Treasury, Community Development Financial Institutions Fund
 - U.S. Department of Housing and Urban Development, Qualified Census Tracts and Difficult Development Areas
- **LTc Surrounding Density and Diverse Uses**
 - None
- **LTc Access to Quality Transit**
 - None
- **LTc Bicycle Facilities**
 - None
- **LTc Reduced Parking Footprint**
 - Institute of Transportation Engineers, Transportation Planning Handbook, 3rd edition, Tables 18-2 through 18-4
- **LTc Green Vehicles**
 - American Council for an Energy Efficient Economy (ACEEE) Green Book
 - Society of Automotive Engineers, SAE Surface Vehicle Recommended Practice J1772, SAE Electric Vehicle Conductive Charge Coupler
 - International Electrotechnical Commission 62196

Sustainable Sites (SS) Chapter Referenced Standards

- **SSp Construction Activity Pollution Prevention**
 - 2003 EPA Construction General Permit
- **SSp Environmental Site Assessment (Schools and Healthcare only)**
 - ASTM E1527—05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process
 - ASTM E1903—11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process
 - 40 CFR Part 312: Standards and Practice for All Appropriate Inquiries; Final Rule
- **SSc Site Assessment**
 - ASTM E1527—05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process
 - ASTM E1903—11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process
 - 40 CFR Part 312: Standards and Practice for All Appropriate Inquiries; Final Rule
 - Natural Resources Conservation Service, web soil survey
 - TR-55 initial water storage capacity
- **SSc Site Development - Protect or Restore Habitat**
 - U.S. EPA ecoregions
 - Land Trust Alliance accreditation
 - Natural Resources Conservation Service, web soil survey
 - Sustainable Sites Initiative
- **SSc Open Space**
 - None
- **SSc Rainwater Management**
 - U.S. EPA Technical Guidance on Implementing the Rainwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act
- **SSc Heat Island Reduction**
 - ASTM Standards E903 and E892
 - Cool Roof Rating Council Standard (CRRC-1)
- **SSc Light Pollution Reduction**
 - Illuminating Engineering Society and International Dark Sky Association (IES/IDA) Model Lighting Ordinance User Guide and IES TM-15-11, Addendum A

Referenced Standards: SS category

- **SSc Site Master Plan (Schools only)**
 - None
- **SSc Tenant Design and Construction Guidelines (Core and Shell only)**
 - None
- **SSc Places of Respite (Healthcare only)**
 - 2010 FGI Guidelines for Design and Construction of Health Care Facilities
- **SSc Direct Exterior Access (Healthcare only)**
 - None
- **SSc Joint Use of Facilities (Schools only)**
 - None

Referenced Standards: WE category

Water Efficiency (WE) Referenced Standards

- **WEp Outdoor Water Use Reduction**
 - None
- **WEp Indoor Water Use Reduction**
 - Energy Policy Act (EPAAct) of 1992 and as amended
 - EPAAct 2005
 - International Association of Plumbing and Mechanical Officials Publication IAPMO / ANSI UPC 1-2006, Uniform Plumbing Code 2006, Section 402.0, Water-Conserving Fixtures and Fittings
 - International Code Council, International Plumbing Code 2006, Section 604, Design of Building Water Distribution System
 - ENERGY STAR
 - Consortium for Energy Efficiency
 - IgCC/ASHRAE 189.1
- **WEp Building-level Water Metering**
 - None
- **WEc Outdoor Water Use Reduction**
 - None
- **WEc Indoor Water Use Reduction**
 - Energy Policy Act (EPAAct) of 1992 and as amended
 - EPAAct 2005
 - International Association of Plumbing and Mechanical Officials Publication IAPMO / ANSI UPC 1-2006, Uniform Plumbing Code 2006, Section 402.0, Water-Conserving Fixtures and Fittings
 - International Code Council, International Plumbing Code 2006, Section 604, Design of Building Water Distribution System
 - ENERGY STAR
 - Consortium for Energy Efficiency
 - Energy Policy Act (EPAAct) of 1992 and as amended
 - IgCC/ASHRAE 189.1
- **WEc Cooling Tower Water Use**
 - None
- **WEc Water Metering**
 - None

Referenced Standards: EA category

Energy and Atmosphere (EA) Referenced Standards

- **EA Fundamental Commissioning and Verification**
 - ASHRAE Guideline 0–2005, The Commissioning Process
 - ASHRAE Guideline 1.1–2007, HVAC&R Technical Requirements for the Commissioning Process
 - NIBS Guideline 3–2012, Exterior Enclosure Technical Requirements for the Commissioning Process
- **EAp Minimum Energy Performance**
 - ASHRAE 90.1–2010
 - ASHRAE 50% Advanced Energy Design Guides
 - Advanced Buildings Core Performance Guide
 - COMNET Commercial Buildings Energy Modeling Guidelines
- **EAp Building-level Energy Metering**
 - American National Standards Institute, ANSI C12.20, Class 0.2 (± 0.2)
 - American National Standards Institute, ANSI B109
 - EN Standard, EN-1434:Thermal energy (Btu meter or heat meter)
- **EAp Fundamental Refrigerant Management**
 - U.S. EPA Clean Air Act, Title VI, Section 608, Refrigerant Recycling Rule
- **EAc Enhanced Commissioning**
 - ASHRAE Guideline 0–2005, The Commissioning Process
 - ASHRAE Guideline 1.1–2007, HVAC&R Technical Requirements for the Commissioning Process
 - NIBS Guideline 3–2012, Exterior Enclosure Technical Requirements for the Commissioning Process
- **EAc Optimize Energy Performance**
 - ASHRAE 90.1–2010
 - ASHRAE 50% Advanced Energy Design Guides
 - COMNET Commercial Buildings Energy Modeling Guidelines
- **EAc Advanced Energy Metering**
 - None
- **EAc Demand Response**
 - None
- **EAc Renewable Energy Production**
 - Center for Resource Solutions Green-e Program
 - Commercial Building Energy Consumption Survey (CBECS)

Referenced Standards: EA category

- **EAc Enhanced Refrigerant Management**
 - None
- **EAc Green Power and Carbon Offsets**
 - Green-e Energy and Green-e Climate
 - Commercial Building Energy Consumption Survey (CBECS)
 - Building Owners and Managers Association (BOMA)
 - ENERGY STAR Portfolio Manager: Methodology for Greenhouse Gas Inventory and Tracking Calculations
 - Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2010. Annex 2 Methodology and Data for Estimating CO₂ Emissions from Fossil Fuel Combustion
 - 2006 IPCC Guidelines for National Greenhouse Gas Inventories
 - eGRID2012 Version 1.0—U.S. Environmental Protection Agency
 - WRI-WBCSD Greenhouse Gas Protocol

Materials and Resources (MR) Referenced Standards

- **MRp Storage and Collection of Recyclables**
 - None
- **MRp Construction and Demolition Waste Management Planning**
 - European Commission Waste Framework Directive 2008/98/EC
 - European Commission Waste Incineration Directive 2000/76/EC
 - EN 303-1—1999/A1—2003, Heating boilers with forced draught burners, Terminology, general requirements, testing and marking
 - EN 303-2—1998/A1—2003, Heating boilers with forced draught burners, Special requirements for boilers with atomizing oil burners
 - EN 303-3—1998/AC—2006, Gas-fired central heating boilers, Assembly comprising a boiler body and a forced draught burner
 - EN 303-4—1999, Heating boilers with forced draught burners, Special requirements for boilers with forced draught oil burners with outputs up to 70 kW and a maximum operating pressure of 3 bar, Terminology, special requirements, testing and marking
 - EN 303-5—2012, Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW
 - EN 303-6—2000, Heating boilers with forced draught burners, Specific requirements for the domestic hot water operation of combination boilers with atomizing oil burners of nominal heat input not exceeding 70 kW
 - EN 303-7—2006, Gas-fired central heating boilers equipped with a forced draught burner of nominal heat output not exceeding 1000 kW
- **MRp PBT Source Reduction--Mercury (Healthcare only)**
 - Guidelines for the Design and Construction of Health Care Facilities, 2010 Edition
 - ISO-11143, Dentistry, Amalgam Separators
 - ENERGY STAR
 - U.S. Department of Energy ENERGY STAR Qualified Light Bulbs, 2009 Partner Resource Guide
 - Toxicological Effects of Methylmercury
- **MRc Building Life cycle Impact Reduction**
 - ISO 14044—2006, Environmental management, Life cycle assessment requirements, and guidelines
 - National Register of Historic Places
 - Secretary of Interior's Standards for the Treatment of Historic Properties

Referenced Standards: MR category

- **MRc Building Product Disclosure and Optimization - Environmental Product Declarations**
 - ISO 14021–1999, Environmental labels and declarations—Self Declared Claims (Type II Environmental Labeling)
 - ISO 14025–2006, Environmental labels and declarations (Type III Environmental Declarations—Principles and Procedures)
 - ISO 14040–2006, Environmental management, Life cycle assessment principles, and frameworks
 - ISO 14044–2006, Environmental management, Life cycle assessment requirements, and guidelines
 - EN 15804—2012 Sustainability of construction works, Environmental product declarations, Core rules for the product category of construction products
 - ISO 21930–2007 Sustainability in building construction—Environmental declaration of building products
 - Guides for the Use of Environmental Marketing Claims, 16 CFR 260.7 (e)
- **MRc Building Product Disclosure and Optimization - Sourcing of Raw Materials**
 - Global Reporting Initiative (GRI) Sustainability Report
 - Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises
 - U.N. Global Compact, Communication of Progress
 - ISO 26000—2010 Guidance on Social Responsibility
 - Forest Stewardship Council
 - Sustainable Agriculture Network
 - The Rainforest Alliance
 - ASTM Test Method D6866
 - ISO 14021–1999, Environmental labels and declarations—Self Declared Claims (Type II Environmental Labeling)
- **MRc Building Product Disclosure and Optimization - Material Ingredients**
 - Chemical Abstracts Service
 - Health Product Declaration
 - Cradle-to-Cradle® Certified Products Program
 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
 - GreenScreen

Referenced Standards: MR category

- **MRc Construction and Demolition Waste Management**
 - Certification of Sustainable Recyclers
 - European Commission Waste Framework Directive 2008/98/EC
 - European Commission Waste Incineration Directive 2000/76/EC
 - EN 303-1—1999/A1—2003, Heating boilers with forced draught burners, Terminology, general requirements, testing and marking
 - EN 303-2—1998/A1—2003, Heating boilers with forced draught burners, Special requirements for boilers with atomizing oil burners
 - EN 303-3—1998/AC—2006, Gas-fired central heating boilers, Assembly comprising a boiler body and a forced draught burner
 - EN 303-4—1999, Heating boilers with forced draught burners, Special requirements for boilers with forced draught oil burners with outputs up to 70 kW and a maximum operating pressure of 3 bar, Terminology, special requirements, testing and marking
 - EN 303-5—2012, Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW
 - EN 303-6—2000, Heating boilers with forced draught burners, Specific requirements for the domestic hot water operation of combination boilers with atomizing oil burners of nominal heat input not exceeding 70 kW
 - EN 303-7—2006, Gas-fired central heating boilers equipped with a forced draught burner of nominal heat output not exceeding 1000 kW
- **MRc PBT Source Reduction--Mercury (Healthcare only)**
 - none
- **MRc PBT Source Reduction--Lead, Cadmium & Copper (Healthcare only)**
 - ASTM B813 for copper flux
 - ASTM B828, Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings
 - California AB1953 standard for lead water pipes used to convey water for human consumption
 - GreenSeal
 - 2002 National Electric Code requirements for removal and disposal of disconnected wires with lead stabilizers

Referenced Standards: MR category

- **MRC Furniture and Medical Furnishings (Healthcare only)**
 - Restriction of the Use of Certain Hazardous Substances of the European Union Directive (EU RoHS)
 - ANSI/BIFMA M7.1–2011
 - ANSI/BIFMA e3–2011
 - ISO 14025–2006, Environmental labels and declarations (Type III Environmental Declarations—Principles and Procedures)
 - ISO 14040–2006, Environmental management, Life cycle assessment principles, and frameworks
 - ISO 14044–2006, Environmental management, Life cycle assessment requirements, and guidelines
 - ISO 21930–2007 Sustainability in building construction—Environmental declaration of building products
 - ISO 14021–1999, Environmental labels and declarations—Self Declared Claims (Type II Environmental Labeling)
- **MRC Design for Flexibility (Healthcare only)**
 - None

Indoor Environmental Quality (EQ) Referenced Standards

- **EQp Minimum Indoor Air Quality Performance**
 - ASHRAE Standard 62.1–2010: Ventilation for Acceptable Indoor Air Quality
 - Comité Européen de Normalisation (CEN) Standard EN 15251–2007: Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics
 - Comité Européen de Normalisation (CEN) Standard EN 13779–2007: Ventilation for nonresidential buildings, Performance requirements for ventilation and room conditioning systems
 - Chartered Institution of Building Services Engineers (CIBSE) Applications Manual AM10, March 2005, Natural Ventilation in Nondomestic Buildings
 - ASHRAE Standard 170–2008: Ventilation of Health Care Facilities
 - 2010 FGI Guidelines for Design and Construction of Health Care Facilities
- **EQp Environmental tobacco smoke control**
 - Standard Test Method for Determining Air Leakage Rate by Fan Pressurization, ASTM E779-03: Indoor Air Quality
 - Standard Test Methods for Determining Airtightness of Buildings Using an Orifice Blower Door, ASTM E1827-11
 - Nondestructive testing, Leak testing—Criteria for method and technique selection, CEN Standard EN 1779—1999
 - Nondestructive testing, Leak testing, Tracer gas method, CEN Standard EN 13185—2001
 - Nondestructive testing, Leak testing, Calibration of reference leaks for gases, CEN Standard EN 13192—2001
 - RESNET Standards
 - ENERGY STAR Multifamily Testing Protocol
- **EQp Minimum Acoustic Performance (Schools only)**
 - AHRI Standard 885–2008, Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets
 - American National Standards Institute (ANSI)/ASHRAE Standard S12.60–2010, Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools
 - 2011 HVAC Applications, ASHRAE Handbook, Chapter 48, Noise and Vibration Control
 - NRC-CNRC Construction Technology Update No. 51, Acoustic Design of Rooms for Speech, 2002t

Referenced Standards: EQ category

- **EQc Enhanced Indoor Air Quality Strategies**
 - ASHRAE Standard 52.2–2007
 - CEN Standard EN 779–2002
 - Chartered Institution of Building Services Engineers (CIBSE) Applications Manual AM10, March 2005, Natural Ventilation in Nondomestic Buildings
 - Chartered Institution of Building Services Engineers (CIBSE) Applications Manual 13, 2000
 - National Ambient Air Quality Standards (NAAQS)
- **EQc Low-Emitting materials**
 - California Department of Public Health (CDPH) Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, v. 1.1–2010
 - ISO 17025
 - ISO Guide 65
 - German AgBB Testing and Evaluation Scheme (2010)
 - ISO 16000-3:2011- Indoor air -- Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air -- Active sampling method
 - ISO 16000-6:2011- Indoor air -- Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA sorbent, thermal desorption and gas chromatography using MS or MS-FID
 - ISO 16000-7:2007- Indoor air -- Part 7: Sampling strategy for determination of airborne asbestos fibre concentrations
 - ISO 16000-11:2006- Indoor air -- Part 11: Determination of the emission of volatile organic compounds from building products and furnishing -- Sampling, storage of samples and preparation of test specimens
 - South Coast Air Quality Management District (SCAQMD) Rule 1168
 - South Coast Air Quality Management District (SCAQMD) Rule 1113
 - European Decopaint Directive
 - Canadian VOC Concentration Limits for Architectural Coatings
 - Hong Kong Air Pollution Control Regulation
 - California Air Resources Board (CARB) 93120 Airborne Toxic Control Measure (ATCM) for formaldehyde emissions from composite wood products
 - ANSI/BIFMA M7.1 Standard Test Method for Determining VOC Emissions from Office Furniture Systems, Components and Seating
 - ANSI/BIFMA e3–2011 Furniture Sustainability Standard

Referenced Standards: EQ category

- NIOSH, Asphalt Fume Exposures During the Application of Hot Asphalt to Roofs, Publication No. 2003-112
- ISO 4224 Ambient air—Determination of carbon monoxide—Nondispersive infrared spectrometric method
- ISO 7708 Air quality—Particle size fraction definitions for health-related sampling
- ISO 13964 Air quality—Determination of ozone in ambient air—Ultraviolet photometric method
- U.S. EPA Compendium of Methods for the Determination of Air Pollutants in Indoor Air, IP-1: Volatile Organic Compounds, IP-3: Carbon Monoxide and Carbon Dioxide, IP-6: Formaldehyde and other aldehydes/ketones, IP-10 Volatile Organic Compounds
- U.S. EPA Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air, TO-1: Volatile Organic Compounds, TO-11: Formaldehyde, TO-15: Volatile Organic Compounds, TO-17: Volatile Organic Compounds
- ASTM D5197–09e1 Standard Test Method for Determination of Formaldehyde and Other Carbonyl Compounds in Air (Active Sampler Methodology)
- ASTM D5149–02(2008) Standard Test Method for Ozone in the Atmosphere: Continuous Measurement by Ethylene Chemiluminescence
- **EQc Indoor Air Quality Assessment**
 - ASTM D5197–09e1 Standard Test Method for Determination of Formaldehyde and Other Carbonyl Compounds in Air (Active Sampler Methodology)
 - ISO 16000-3:2011- Indoor air -- Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air -- Active sampling method
 - ISO 16000-6:2011- Indoor air -- Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA sorbent, thermal desorption and gas chromatography using MS or MS-FID
 - ASTM D5149–02(2008) Standard Test Method for Ozone in the Atmosphere: Continuous Measurement by Ethylene Chemiluminescence
 - ISO 4224 Ambient air—Determination of carbon monoxide—Nondispersive infrared spectrometric method
 - ISO 7708 Air quality—Particle size fraction definitions for health-related sampling
 - ISO 13964 Air quality—Determination of ozone in ambient air—Ultraviolet photometric method
 - U.S. EPA Compendium of Methods for the Determination of Air Pollutants in Indoor Air, IP-1: Volatile Organic Compounds, IP-3: Carbon Monoxide and Carbon Dioxide, IP-6: Formaldehyde and other aldehydes/ketones, IP-10 Volatile Organic Compounds
 - U.S. EPA Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air, TO-1: Volatile Organic Compounds, TO-11: Formaldehyde, TO-15: Volatile Organic Compounds, TO-17: Volatile Organic Compounds

Referenced Standards: EQ category

- California Department of Public Health (CDPH) Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, v. 1.1–2010
- **EQc Thermal Comfort**
 - 2011 HVAC Applications, ASHRAE Handbook, Chapter 48, Noise and Vibration Control
 - Comité Européen de Normalisation (CEN) Standard EN 15251–2007:Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics
 - ASHRAE Standard 55–2010, Thermal Environmental Conditions for Human Occupancy
 - The Lighting Handbook, 10th edition, Illuminating Engineering Society of North America
 - IES Lighting Measurements (LM) 83-12, Approved Method: IES Spatial Daylight Autonomy (sDA) and Annual Sunlight Exposure (ASE)
 - Windows and Offices: A Study of Office Worker Performance and the Indoor Environment
 - ANSI S1.4, Performance Measurement Protocols for Commercial Buildings
 - 2010 Noise and Vibration Guidelines for Health Care Facilities
- **EQc Interior Lighting**
 - The Lighting Handbook, 10th edition, Illuminating Engineering Society of North America
 - IES Lighting Measurements (LM) 83-12, Approved Method: IES Spatial Daylight Autonomy (sDA) and Annual Sunlight Exposure (ASE)
 - Windows and Offices: A Study of Office Worker Performance and the Indoor Environment
 - ANSI S1.4, Performance Measurement Protocols for Commercial Buildings
 - 2010 Noise and Vibration Guidelines for Health Care Facilities
- **EQc Daylight**
 - IES Lighting Measurements (LM) 83-12, Approved Method: IES Spatial Daylight Autonomy (sDA) and Annual Sunlight Exposure (ASE)
 - The Lighting Handbook, 10th edition, Illuminating Engineering Society of North America
 - Windows and Offices: A Study of Office Worker Performance and the Indoor Environment
 - ANSI S1.4, Performance Measurement Protocols for Commercial Buildings
 - 2010 Noise and Vibration Guidelines for Health Care Facilities

Referenced Standards: EQ category

- **EQc Quality Views**

- Windows and Offices: A Study of Office Worker Performance and the Indoor Environment
- ANSI S1.4, Performance Measurement Protocols for Commercial Buildings
- 2010 Noise and Vibration Guidelines for Health Care Facilities

- **EQc Acoustic Performance**

- 2011 HVAC Applications, ASHRAE Handbook, Chapter 48, Noise and Vibration Control
- AHRI Standard 885–2008, Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets
- 2010 Noise and Vibration Guidelines for Health Care Facilities
- American National Standards Institute (ANSI)/ASHRAE Standard S12.60–2010, Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools
- 2010 FGI Guidelines for Design and Construction of Health Care Facilities