

APPENDIX 1-A STANDARDS AND DOCUMENTS REFERENCED IN THE ENERGY EFFICIENCY REGULATIONS

AIR-CONDITIONING AND REFRIGERATION INSTITUTE

ARI 210/240-2003	Unitary Air Conditioning and Air-Source Heat Pump Equipment (2003)
ARI 310/380-93	Packaged Terminal Air-Conditioners and Heat Pumps (1993)
ARI 320-98	Water-Source Heat Pumps
ARI 325-98	Ground Water-Source Heat Pumps (1998)
ARI 340/360-2000	Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment (2000)
ARI 365-2002	Commercial and Industrial Unitary Air-Conditioning Condensing Units (2002)
ARI 460-2000	Remote Mechanical-Draft Air-Cooled Refrigerant Condensers (2000)
ARI 550/590-98	Standard for Water-Chilling Packages Using the Vapor Compression Cycle (1998)
ARI 560-2000	Absorption Water Chilling and Water Heating Packages (2000)
Available from:	Air-Conditioning and Refrigeration Institute 4301 North Fairfax Drive, Suite 425 Arlington, Virginia 22203 (703) 524-8800

AIR CONDITIONING CONTRACTORS OF AMERICA

Manual J – Residential Load Calculation, Eighth Edition (2003)

Available from:
Air Conditioning Contractors of America, Inc.
2800 Shirlington Road, Suite 300
Arlington, VA 22206
www.acca.org
(703) 575-4477

AMERICAN NATIONAL STANDARDS INSTITUTE

ANSI Z21.10.3-2001	Gas Water Heaters, Volume 1, Storage Water Heaters with Input Ratings above 75,000 Btu/h (2001)
ANSI Z21.13-2000	Gas-Fired Low Pressure Steam and Hot Water Boilers (2000)
ANSI Z21.40.4-1996 (1996)	Performance Testing and Rating of Gas-Fired, Air-Conditioning and Heat Pump Appliances
ANSI Z21.47-2001	Gas-Fired Central Furnaces (2001)
ANSI Z83.8-2002	Gas Unit Heaters and Gas-Fired Duct Furnaces (2002)
Available from:	American National Standards Institute 25 West 43 rd Street, 4 th Floor New York, NY 10036 (212) 642-4900
ANSI/NSPI-5 2003	Residential Inground Swimming Pools (2003)

Available from: Association of Pool & Spas Professionals
2111 Eisenhower Ave.
Alexandria, VA 22314
(703) 838-0083

**AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS
(NATIONAL PUBLICATIONS)**

ASHRAE Standard 55- Thermal Environment Conditions for Human Occupancy

ASHRAE Handbook

Applications Volume, Heating, Ventilating and Air-Conditioning Applications (2003)

Equipment Volume, Heating, Ventilating and Air-Conditioning Systems and Equipment (2000)

Fundamentals Volume, Fundamentals (2001)

Available from: ASHRAE
1791 Tullie Circle N.E.
Atlanta, Georgia 30329
www.ashrae.org

**AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS
(REGIONAL PUBLICATION)**

ASHRAE Climatic Data for Region X Arizona, California, Hawaii, Nevada, Publication SPCDX, 1982, ISBN #20002196 and Supplement, 1994, ISBN #20002596

Available from: Order Desk
Building News
10801 National Boulevard
Los Angeles, CA 90064
(800) 873-6397 or (310) 474-7771
<http://www.bnibooks.com/>

AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASTM C55-01 Standard Specification for Concrete Brick (2001)

ASTM C177-97 Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded Hot Plate Apparatus (1997)

ASTM C272-01 Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions (2001) ASTM C335-95 Standard Test Method for Steady State Heat Transfer Properties of Horizontal Pipe Insulation (1995)

ASTM C518-02 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus (2002)

ASTM C731-00 Standard Test Method for Extrudability, After Package Aging, of Latex Sealants (2000)

ASTM C 732-01 Standard Test Method for Aging Effects of Artificial Weathering on Latex Sealants (2001)

ASTM C 1167-96 Standard Specification for Clay Roof Tiles

ASTM C1371-98 Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers (1998)

ASTM D822-01 Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings (2001)

ASTM D1003-00	Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics (2000)
ASTM D2824-02	Standard Specification for Aluminum-Pigmented Asphalt Roof Coatings, Nonfibered, Asbestos Fibered, and Fibered without Asbestos, 2002
ASTM D3805-97	Standard Guide for Application of Aluminum-Pigmented Asphalt Roof Coatings, 1997 (reapproved 2003)
ASTM D4798-01	Standard Test Method Accelerated Weathering Test Conditions and Procedures for Bituminous Materials (Xenon-Arc Method) (2001)
ASTM D6848-02	Standard Specification for Aluminum-Pigmented Emulsified Asphalt Used as a Protective Coating for Roofing Asphalt Roof Coatings, 2002.
ASTM E96-00	Standard Test Methods for Water Vapor Transmission of Materials
ASTM E 283-91 (1999)	Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
ASTM E408-71(2002)	Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques (2002)
ASTM C836-05	Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course (2005)
ASTM C1583-04	Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method) (2004)
ASTM D522-93a (2001)	Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings (2001)
ASTM D1653-03	Standard Test Methods for Water Vapor Transmission of Organic Coating Films (2003)
ASTM D2370-98 (2002)	Standard Test Method for Tensile Properties of Organic Coatings (2002)
ASTM D3468-99	Standard Specification for Liquid-Applied Neoprene and Chlorosulfonated Polyethylene Used in Roofing and Waterproofing (1999)
ASTM D5870-95 (2003)	Standard Practice for Calculating Property Retention Index of Plastics (2003)
ASTM D6083-05e1	Standard Specification for Liquid Applied Acrylic Coating Used in Roofing (2005)
ASTM D6694-01	Standard Specification for Liquid-Applied Silicone Coating Used in Spray Polyurethane Foam Roofing (2001)
[CE1]Available from:	American Society for Testing and Materials 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428-2959 (610) 832-9500

CALIFORNIA BUILDING STANDARDS COMMISSION

2001 California Electrical Code

Available from: California Building Standards Commission
2525 Natomas Park Drive, Suite 130
Sacramento, CA 95833-2936
(916) 263-0916
www.bsc.ca.gov

CALIFORNIA ENERGY COMMISSION

Appliance Efficiency Standards

Nonresidential Alternative Calculation Method (ACM) Manual

Nonresidential Manual

Residential Alternative Calculation Method (ACM) Manual

Residential Manual

Available from: California Energy Commission
1516 Ninth Street
Sacramento, CA 95814
(916) 654-5106 or
(800) 772-3300 (in California)
<http://www.energy.ca.gov/title24>

CALIFORNIA DEPARTMENT OF CONSUMER AFFAIRS

Standards for Insulating Material

Available from: California Department of Consumer Affairs
Bureau of Home Furnishings and Thermal Insulation
3485 Orange Grove Ave
North Highlands, CA 95660
(916) 574-2041

CODE OF FEDERAL REGULATIONS

21 Code of Federal Regulations, Section 1002.2 (1996)

47 Code of Federal Regulations, Parts 2 and 15 (1996)

Available from: Department of Energy
Washington, DC 20585

COOLING TECHNOLOGY INSTITUTE

CTI ATC-105-00 Acceptance Test Code for Water Cooling Towers (2000)

CTI STD-201-02 Standard for the Certification of Water-Cooling Tower Thermal Performance (2004)

Available from: Cooling Technology Institute
2611 FM 1960 West, Suite A-101
Houston, Texas 77068-3730

PO Box 73383
Houston, Texas 77273-3383
(281) 583-4087

COOL ROOF RATING COUNCIL

CRRC-1 Product Rating Program Manual (~~2002~~)(2007)

Available from: Cool Roof Rating Council
~~1738 Excelsior Avenue~~ 1610 Harrison Street
Oakland, CA ~~94602~~ 94612
(866) 465-2523
www.coolroofs.org

HYDRONICS INSTITUTE

HI Heating Boiler Standard 86, 6th Edition, (1989)

Available from: Hydronics Institute
35 Russo Place, P.O. Box 218
Berkeley Heights, New Jersey 07922
(908) 464-8200

ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA

The IESNA Lighting Handbook, Ninth Edition (2000)

Available from: IESNA
120 Wall Street, 17th Floor
New York, New York 10005-4001
(212) 248-5000
Email: iesna@iesna.org

INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

2001 California Mechanical Code

Available from: International Association of Plumbing and Mechanical Officials
2001 E. Walnut Drive South
Walnut, California 91789-2825
800 85-IAPMO (854-2766)
www.iapmo.org

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS

2001 California Building Code

Available from: International Conference of Building Officials
International Code Council Los Angeles District Office
5360 South Workman Mill Road
Whittier, California 90601-2298
(800) 284-4406
www.icbo.org

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO-13256-1 Water-Source Heat Pumps - Testing and Rating for Performance - Part 1: Water-to-Air and Brine-to-Air Heat Pumps (1998)

Available from: ISO
1, rue de Varembe
Case postale 56
CH-1211
Geneve 20, Switzerland

NATIONAL FENESTRATION RATING COUNCIL

NFRC 100 Procedure for Determining Fenestration Product U-factors (1997, 2002)

NFRC 200 Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence (1997, 2002)

NFRC 400 Procedure for Determining Fenestration Product Air Leakage (1995, 2002)

Available from: National Fenestration Rating Council
8484 Georgia Avenue, Suite 320

Silver Spring, Maryland 20910
(301) 589-1776
Email: info@nfrf.org

NSF INTERNATIONAL (formerly National Sanitation Foundation)

NSF/ANSI 50 2005 Circulation System Components and Related Materials for Swimming Pools, Spas/Hot Tubs (2005)

Available from: NSF International
PO Box 130140
Ann Arbor, MI 48113
(734) 769-8010

SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION

Residential Comfort System Installation Standards Manual (1998)

Available from: Sheet Metal And Air Conditioning Contractors National Association (SMACNA)
4201 Lafayette Center Drive
Chantilly, VA 20151-1209
(703) 803-2980
www.smacna.org

UNDERWRITERS LABORATORIES

UL 181 Standard for Safety for Factory-made Air Ducts and Connectors (1996)
UL 181A Standard for Safety for Closure Systems for Use with Rigid Air Ducts and Air Connectors (1994)
UL 181B Standard for Safety for Closure Systems for Use with Flexible Air Ducts and Air Connectors (1995)
UL 723 Standard for Test for Surface Burning Characteristics of Building Materials (1996)
UL 727 Standard for Oil-Fired Central Furnaces (1994)
UL 731 Standard for Oil-Fired Unit Heaters (1995)
UL 1598 Standard for Luminaires (2000)

Available from: Underwriters Laboratories
333 Pflingsten Road
Northbrook, Illinois 60062-2096
(847) 272-8800