

ASTM International Subcommittee E44.05 Standards Solar Heating and Cooling Systems and Materials

Designation	Standard Title
E424-71(2007)	Test Methods for Solar Energy Transmittance and Reflectance (Terrestrial) of Sheet Materials
E905-87(2007)	Test Method for Determining Thermal Performance of Tracking Concentrating Solar Collectors
E972-96(2007)	Test Method for Solar Photometric Transmittance of Sheet Materials Using Sunlight
E1084-86(2009)	Test Method for Solar Transmittance (Terrestrial) of Sheet Materials Using Sunlight
E1089-86(2007)	Test Method for Water Penetration of Flat Plate Solar Collectors by Uniform Static Air Pressure Difference
E1175-87(2009)	Test Method for Determining Solar or Photopic Reflectance, Transmittance, and Absorptance of Materials Using a Large Diameter Integrating Sphere
E683-91(2007)	Practice for Installation and Service of Solar Space Heating Systems for One- and Two-Family Dwellings
E712-80(2009)	Practice for Laboratory Screening of Metallic Containment Materials for Use With Liquids in Solar Heating and Cooling Systems
E744-07	Practice for Evaluating Solar Absorptive Materials for Thermal Applications
E745-80(2009)	Practices for Simulated Service Testing for Corrosion of Metallic Containment Materials for Use With Heat-Transfer Fluids in Solar Heating and Cooling Systems
E781-86(2009)	Practice for Evaluating Absorptive Solar Receiver Materials When Exposed to Conditions Simulating Stagnation in Solar Collectors With Cover Plates
E782-95(2007)	Practice for Exposure of Cover Materials for Solar Collectors to Natural Weathering Under Conditions Simulating Operational Mode
E822-92(2009)	Practice for Determining Resistance of Solar Collector Covers to Hail by Impact With Propelled Ice Balls
E823-81(2001)	Practice for Nonoperational Exposure and Inspection of a Solar Collector
E861-94(2007)	Practice for Evaluating Thermal Insulation Materials for Use in Solar Collectors
E881-92(2009)	Practice for Exposure of Solar Collector Cover Materials to Natural Weathering Under Conditions Simulating Stagnation Mode
E904-87(2007)	Practice for Generating All-Day Thermal Performance Data for Solar Collectors
E971-88(2003)	Practice for Calculation of Photometric Transmittance and Reflectance of Materials to Solar Radiation
E1056-85(2007)	Practice for Installation and Service of Solar Domestic Water Heating Systems for One- and Two-Family Dwellings
E1160-87(2007)	Guide for On-Site Inspection and Verification of Operation of Solar Domestic Hot Water Systems

Further Information

ASTM is actively seeking participation and input from stakeholders who are not involved with our consensus process. For more information about ASTM Committee E44, visit <http://www.astm.org> or e-mail Christine DeJong, cdejong@astm.org.

ASTM International Subcommittee E44.09 Standards Photovoltaic Electric Power Conversion

Designation	Standard Title
E772-05	Standard Terminology Relating to Solar Energy Conversion
E927-05	Specification for Solar Simulation for Terrestrial Photovoltaic Testing
E948-09	Test Method for Electrical Performance of Photovoltaic Cells Using Reference Cells Under Simulated Sunlight
E973-05a	Test Method for Determination of the Spectral Mismatch Parameter Between a Photovoltaic Device and a Photovoltaic Reference Cell
E1021-06	Test Method for Spectral Responsivity Measurements of Photovoltaic Devices
E1036-02(2007)	Test Methods for Electrical Performance of Nonconcentrator Terrestrial Photovoltaic Modules and Arrays Using Reference Cells
E1038-05	Test Method for Determining Resistance of Photovoltaic Modules to Hail by Impact with Propelled Ice Balls
E1040-05	Specification for Physical Characteristics of Nonconcentrator Terrestrial Photovoltaic Reference Cells
E1125-05	Test Method for Calibration of Primary Non-Concentrator Terrestrial Photovoltaic Reference Cells Using a Tabular Spectrum
E1143-05	Test Method for Determining the Linearity of a Photovoltaic Device Parameter with Respect To a Test Parameter
E1171-09	Test Methods for Photovoltaic Modules in Cyclic Temperature and Humidity Environments
E1328-05	Terminology Relating to Photovoltaic Solar Energy Conversion
E1362-05	Test Method for Calibration of Non-Concentrator Photovoltaic Secondary Reference Cells
E1462-00(2006)	Test Methods for Insulation Integrity and Ground Path Continuity of Photovoltaic Modules
E1597-05	Test Method for Saltwater Pressure Immersion and Temperature Testing of Photovoltaic Modules for Marine Environments
E1799-08	Standard Practice for Visual Inspections of Photovoltaic Modules
E1802-07	Test Methods for Wet Insulation Integrity Testing of Photovoltaic Modules
E1830-09	Test Methods for Determining Mechanical Integrity of Photovoltaic Modules
E2047-05	Test Method for Wet Insulation Integrity Testing of Photovoltaic Arrays
E2236-05a	Test Methods for Measurement of Electrical Performance and Spectral Response of Nonconcentrator Multijunction Photovoltaic Cells and Modules
E2481-08	Test Method for Hot Spot Protection Testing of Photovoltaic Modules
E2527-09	Test Method for Rating Electrical Performance of Concentrator Terrestrial Photovoltaic Modules and Systems Under Natural Sunlight
WK20550	Steel Blades Used With the Photovoltaic Module Surface Cut Test
WK21327	Practice for the Installation of Roof Mounted Photovoltaic Arrays
WK22009	Reporting Photovoltaic Non-Concentrator System Performance
WK22010	Solar Radiation Weathering of Photovoltaic Modules

Further Information For more information about ASTM Committee E44, visit <http://www.astm.org> or e-mail Christine DeJong, cdejong@astm.org.