

Architectural Testing *Services & Products*

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Current as of 05/2009

This list is not intended to include all services offered by Architectural Testing
If your particular requirement is not listed please contact any one of our laboratories for further assistance

Eric Miller, Director

Todd Kister, Laboratory Supervisor

Janine Sobell, Administrative Assistant

- AAMA 1801, *Acoustical Rating of Windows, Doors*^{1,2}
- ANSI S12.8, *Insertion Loss of Outdoor Noise Barriers*
- ANSI S12.51 / ISO 3741:1999, *Determination of Sound Power Levels of Noise Sources using Sound Pressure – Precision Methods for Reverberation Rooms*¹
- ANSI S12.60, *Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools*
- ASTM C 423, *Sound Absorption by Reverb Method*¹
- ASTM C 522, *Airflow Resistance of Acoustical Materials*
- ASTM E 90, *Laboratory Sound Transmission Loss*^{1,2}
- ASTM E 336, *Field Transmission Loss of Partitions in Buildings*¹
- ASTM E 413, *Classification for Rating Sound Insulation*
- ASTM E 596, *Noise Reduction of Sound-Isolating Enclosures*
- ASTM E 597, *Single Number Rating of Airborne Sound Isolation in Buildings*
- ASTM E 795, *Mounting Test Specimens During Sound Absorption Tests*
- ASTM E 966, *Field Transmission Loss of Facades and Facade Elements*¹
- ASTM E 989, *Standard Classification for Determination of Impact Isolation Class (IIC)*
- ASTM E 1007, *Field Measurement of Tapping Machine Impact Sound Transmission*¹
- ASTM E 1014, *Measurement of Outdoor A-Weighted Sound Levels*
- ASTM E 1050, *Impedance and Absorption Using a Two-Microphone Impedance Tube*¹
- ASTM E 1222, *Insertion Loss of Pipe Lagging Systems*
- ASTM E 1289, *Reference Specimen for Sound Transmission Loss*
- ASTM E 1332, *Determination of Outdoor-Indoor Transmission Class*
- ASTM E 1408, *Laboratory Transmission Loss of Doors*¹
- ASTM E 1425, *Determining the Acoustical Performance of Windows, Doors, Skylight, and Glazed Wall Systems*^{1,2}
- ASTM E 1503, *Conducting Outdoor Sound Measurements using a Digital Analysis System*
- ASTM E 1779, *Preparing a Measurement Plan for Conducting Outdoor Sound Measurements*
- SAE J1400, *Airborne Sound Barrier Performance of Automotive Materials*

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² AAMA Accredited Method

³ Miami-Dade County Accredited Method

Bomb Blast Testing

05/2009

John Stacey, P.E., Senior Project Engineer

Brady McNaughton, Project Engineer

Joseph A. Reed, P.E., Director

- ASTM F 1642-04, *Standard Test Method for Glazing and Glazing Systems Subject to Airblast Loading*¹
- GSA-TS01-2003, *US General Services Administration Standard Test Method for Glazing and Window Systems Subject to Dynamic Overpressure Loadings*¹
- AAMA 510-06, *Voluntary Guide Specifications for Blast Hazard Mitigation for Fenestration Systems*¹
- UFC 4-010-01, *Unified Facilities Criteria DoD Minimum Antiterrorism Standards for Buildings* 8 October 2003 (Including change of January 1, 2007) ¹

Certification Services

05/2009

David G. Moyer, Vice President

Ellen Marderness, Executive Assistant

- Code Compliance Research Reports (CCRR) (ANSI accredited)
- Door and Access Systems Manufacturers Association Garage Door Certification Program
- Vinyl Siding Institute Product Certification Program
- Vinyl Siding Institute Certified Installer Program
- InstallationMasters™ Window and Door Installer Training and Certification Program
- Steel Stud Manufacturers Association Code Compliance Certification Program
- Architectural Testing Deck and Handrail Certification Program
- Architectural Testing Insect Screen Certification Program
- Quality Assurance Agency – State of Florida
- Architectural Testing Curtain Wall and Storefront Certification Program
- Architectural Testing Acoustical Performance Certification Program
- Architectural Testing Security Fenestration Rating and Certification Program
- Architectural Testing Fiber-Reinforced Polymer Composite Column Certification Program
- Architectural Testing Roof Impact Certification Program
- Architectural Testing Metal Building Inspection Program

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Gary Hartman, P.E. - Director

Todd Burroughs, Senior Project Engineer

Joe Brickner, Laboratory Supervisor

Nan Bailey, Administrative Assistant

- AAMA CVPM, AAMA Certification Program Component Verification
- AAMA 109, *Procedural Guide for Rigid PVC Extrusions*
- AAMA 303, *PVC Exterior Profile Extrusions*
- AAMA 304, *Ext. Profiles Capped with ASA of ASA/PVC Blends*
- AAMA 305, *Fiberglass Reinforced Thermoset Profiles*
- AAMA 306, *Rigid Poly (Vinyl Chloride) (PVC) Exterior Plank Profiles Used for Decking and Dock Walking Surface*
- AAMA 307, *Voluntary Performance Requirements and Test Procedures for Laminate Intended for Use on AAMA Certified Plastic Profiles*
- AAMA 308, *Voluntary Specification for Cellular Poly Vinyl Chloride (PVC) Exterior Profiles (without weathering or laminated peel resistance*
- AAMA 309, *Standard Specification for Classification of Rigid Thermoplastic/Cellulosic Composite Materials*
- AAMA 505, *Dry Shrinkage and Composite Performance Thermal Cycling²*
- AAMA 611, *Anodized Architectural Aluminum²*
- AAMA 612, *Voluntary Specification, Performance Requirements, and Test Procedures for Combined Coatings of Anodic Oxide and Transparent Organic Coatings on Architectural Aluminum²*
- AAMA 613, *Voluntary Performance Requirements and Test Procedures for Organic Coatings on Plastic Substrates²*
- AAMA 614, *Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Plastic Profiles²*
- AAMA 615, *Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Plastic Profiles²*
- AAMA 623, *Voluntary Specification, Performance Requirements and Test Procedures for Organic Coatings on Fiber Reinforced Thermoset Profiles*
- AAMA 620, *Voluntary Specifications for High Performance Organic Coatings on Coil Coated Architectural Aluminum Substrates*
- AAMA 624, *Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Fiber Reinforced Thermoset Profiles*

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- AAMA 625, *Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Fiber Reinforced Thermoset Profiles*
- AAMA 701/702, *Voluntary Specifications for Pile Weatherstripping and Replaceable Fenestration Weatherseals*^{2,3}
- AAMA 711, *Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products (elastomeric with D1970 Water Penetration)*¹
- AAMA 713, *Voluntary Test Method to Determine Chemical Compatibility of Sealants and Self-Adhering Flexible Flashings*
- AAMA 800, *Voluntary Specifications and Test Methods for Sealants*^{2,3}
- AAMA 812, *Voluntary Practice for Assessment of Single Compound Aerosol Expanding Polyurethane Foams for Sealing Rough Openings of Fenestration Installations*
- AAMA 901, *Voluntary Specifications for Rotary Operators in Window Applications*²
- AAMA 902, *Voluntary Specification for Sash Balances*^{2,3}
- AAMA 904, *Voluntary Specifications for Friction Hinges in Window Applications*²
- AAMA 906, *Voluntary Specification for Sliding Glass Door Roller Assemblies*²
- AAMA 907, *Voluntary Specification for Corrosion Resistant Coatings on Carbon Steel Components*²
- AAMA 908, *Voluntary Specification for Friction Based Sash Balances*²
- AAMA 1102, *Voluntary Specifications for Aluminum Storm Doors (Full Program)*
- AAMA 1402, *Voluntary Specification for Aluminum Siding, Soffit and Fascia*³
- AAMA 2200, *Voluntary Specifications for Performance of Exterior Walking Surface Plank Systems (Full Program)*
- AAMA 2603, *Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels*²
- AAMA 2604, *Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels*²
- AAMA 2605, *Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels*²
- AAMA Draft 3, *Voluntary Specifications for Cellular PVC Exterior Profile Extrusions*
- AAMA TIRA8, *Structural Performance Poured and Debridged Framing Systems*
- AATCC 127, *Water Resistance: Hydrostatic Pressure Test*¹
- ANSI 1002.1, *Voluntary Specifications for Aluminum Insulating Storm Products for Windows & Sliding Glass Doors*
- ANSI/SMA 1004, *Specifications for Tubular Frame Screens for Windows*
- ANSI 1102.7, *Voluntary Specifications for Aluminum Storm Doors*
- ANSI/SMA 6001, *Specifications for Metal Protection Screens*
- ANSI A156.1, *Butts and Hinges*
- ANSI A156.2, *Bored and Preassembled Locks and Latches*
- ANSI A156.3, *Exit Devices*
- ANSI A156.4, *Door Controls - Closers*

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- ANSI A156.5, *Auxiliary Locks and Associated Products*
- ANSI A156.12, *Interconnected Locks and Latches*
- ANSI A156.13, *Mortise Locks and Latches*
- ANSI A156.14, *Sliding and Folding Door Hardware*
- ANSI A156.15, *Closer Holder Release Devices*
- ANSI A156.16, *Auxiliary Hardware*
- ANSI A156.18, *Materials and Finishes*
- ANSI A156.23, *Electromagnetic Locks*
- ANSI A224.1, *Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames*
- ANSI A250.3, *Test Procedure and Acceptance Criteria for Factory Applied Finish Painted Steel Surfaces for Steel Doors*
- ANSI A250.4, *Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcers*
- ANSI/NKCA A161.1, *Performance & Construction Standard for Kitchen and Vanity Cabinets*
- APA AFG-01, *Performance Specification for Adhesives for Field-Gluing Plywood to Wood Framing*
- ASME A39.1, *Safety Requirement for Window Cleaning*
- ASTM A90, *Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles With Zinc or Zinc-Alloy Coatings¹*
- ASTM A 370, *Standard Test Methods and Determinations for Mechanical Testing of Steel Products*
- ASTM A 463, *Standard Specification for Sheet Steel, Aluminum-Coated, by the Hot-Dip Process*
- ASTM A 653, *Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process*
- ASTM A 641, *Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire*
- ASTM A 792, *Standard Specification for Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process*
- ASTM A 924, *Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process*
- ASTM B 117, *Standard Specification for Operating Salt Spray (Fog) Testing Apparatus^{1,3}*
- ASTM B 136, *Test Method for Measurement of Stain Resistance of Anodic Coatings on Aluminum*
- ASTM B 137, *Test Method for Measurement of Mass of Coating per Unit Area of Anodically Coated Aluminum*
- ASTM B 244, *Test Method for Measurement of Thickness of Anodic Coatings on Aluminum and of Other Nonconductive Coatings on Nonmagnetic Basis Metals with Eddy-Current Instruments*
- ASTM B 487, *Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of a Cross-Section*

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- ASTM B 647, *Standard Test Method for Indentation Hardness of Aluminum Alloys by Means of a Webster Hardness Gage*
- ASTM B 680, *Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution*
- ASTM B 766, *Standard Specification for Electrodeposited Coatings of Cadmium Class 8, Type II or III*
- ASTM C 31, *Standard Specification for Making and Curing Concrete Specimens in the Field*
- ASTM C 36, *Standard Specification for Gypsum Wallboard (Full Program)* (Replaced by ASTM C 1369, *Standard Specification for Gypsum Board*)
- ASTM C 39, *Standard Test Method for Compressive Strength of Concrete Specimens*^{1,3}
- ASTM C 42, *Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete*
- ASTM C 67, *Standard Test Method for Sampling and Testing Brick and Structural Tile*¹
- ASTM C 73, *Standard Specification for Calcium Silicate Face Brick (Sand-Lime Brick)*
- ASTM C 78, *Standard Test Method for Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)*
- ASTM C 79, *Standard Specification for Treated Core and Non-Treated Core Gypsum Sheathing Board (Full Program)* (Replaced by ASTM C 1369, *Standard Specification for Gypsum Board*)
- ASTM C 88, *Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate*
- ASTM C 90, *Standard Specification for Load Bearing Concrete Masonry Units*¹
- ASTM C 97, *Standard Test Method for Absorption and Bulk Specific Gravity of Dimension Stone*
- ASTM C 99, *Standard Test Method for Modulus of Rupture of Dimension Stone*
- ASTM C 109, *Standard Test Method for Compressive Strength of Hydraulic Cement Mortars*
- ASTM C 120, *Standard Test Method for Flexure of Slate (MOR, MOE)*
- ASTM C 121, *Standard Test Method for Water Absorption of Slate*
- ASTM C 126, *Standard Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units*
- ASTM C 136, *Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates*
- ASTM C 138, *Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete (Density only)*
- ASTM C 140, *Standard Test Method for Sampling and Testing Concrete Masonry Units*
- ASTM C 143, *Standard Test Method for Slump of Hydraulic Cement Concrete*¹
- ASTM C 158, *Standard Test Method for Strength of Glass by Flexure*³

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- ASTM C 165, *Standard Test Method for Measuring Compressive Properties of Thermal Insulations*
- ASTM C 167, *Standard Test Methods for Thickness and Density of Blanket or Batt Thermal Insulations*
- ASTM C 170, *Standard Test Method for Compressive Strength of Dimension Stone Volumetric Method*
- ASTM C 171, *Standard Specification for Sheet Materials for Curing Concrete*
- ASTM C 190, *Method of Test for Tensile Strength of Hydraulic Cement Mortars (Withdrawn 1990)*
- ASTM C 192, *Standard Specification for Making and Curing Concrete Specimens in the Lab*
- ASTM C 203, *Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation*
- ASTM C 208, *Standard Specification for Cellulosic Fiber Insulating Board*
- ASTM C 209, *Standard Test Method for Cellulosic Fiber Insulating Board*
- ASTM C 212, *Standard Specification for Structural Clay Facing Tile*
- ASTM C 215, *Standard Test Method for Fundamental Transverse, Longitudinal, and Torsional Resonant Frequencies of Concrete Specimens*
- ASTM C 216, *Standard Test Method for Facing Brick (Solid Masonry Units Made From Clay or Shale)*
- ASTM C 217, *Standard Test Method for Weather Resistance of Slate*
- ASTM C 241, *Standard Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic*
- ASTM C 270, *Standard Specification for Mortar for Unit Masonry*¹
- ASTM C 271, *Standard Test Method for Density of Sandwich Core Materials*
- ASTM C 272, *Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions*
- ASTM C 273, *Standard Test Method for Shear Properties in Flatwise Plane of Flat Sandwich Constructions or Sandwich Cores*
- ASTM C 297, *Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions*
- ASTM C 307, *Standard Test Method for Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacing*
- ASTM C 309, *Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete*
- ASTM C 348, *Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars*
- ASTM C 356, *Standard Test Method for Linear Shrinkage of Preformed High-Temperature Thermal Insulation Subjected to Soaking Heat*
- ASTM C 363, *Standard Test Method for Delamination Strength of Honeycomb Core Materials*
- ASTM C 364, *Standard Test Method for Edgewise Compression Strength of Flat Sandwich Constructions*

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- ASTM C 365, *Standard Test Method for Flatwise Compressive Strength of Sandwich Cores*
- ASTM C 367, *Standard Test Method for Strength Properties of Prefabricated Architectural Acoustical Tile or Lay In Ceiling Panels*
- ASTM C 373, *Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products*
- ASTM C 393, *Standard Test Method for Flexural Properties of Sandwich Constructions*
- ASTM C 394, *Standard Test Method for Shear Fatigue of Sandwich Core Materials*
- ASTM C 406, *Standard Specification for Roofing Slate*
- ASTM C 411, *Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation*
- ASTM C418, *Standard Test Method for Abrasion Resistance of Concrete by Sandblasting*
- ASTM C 426, *Standard Test Method for Linear Drying Shrinkage of Concrete Masonry Units*
- ASTM C 461, *Standard Test Methods for Mastics and Coatings Used With Thermal Insulation*
- ASTM C 469, *Standard Test Method for Static Modulus of Elasticity and Poissons Ratio of Concrete in Compression¹*
- ASTM C 473, *Standard Test Methods for Physical Testing of Gypsum Board Panel Products (Full Program)*
- ASTM C 480, *Standard Test Method for Flexure-Creep of Sandwich Constructions*
- ASTM C 481, *Standard Test Method for Laboratory Aging of Sandwich Constructions*
- ASTM C 482, *Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement Paste*
- ASTM C 484, *Standard Test Method for Thermal Shock Resistance of Glazed Ceramic Tile*
- ASTM C 490, *Standard Practice for Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete*
- ASTM C 496, *Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens¹*
- ASTM C 501, *Standard Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abraser*
- ASTM C 503, *Standard Specification for Marble Dimension Stone (Exterior)*
- ASTM 509, *Standard Specification for Elastomeric Cellular, Preformed Gasket and Sealing Material*
- ASTM C 509, *Standard Specification for Elastomeric Cellular Preformed Gasket and Sealing Material*
- ASTM C 510, *Standard Test Method for Straining and Color Change of Single- or Multi-component Joint Sealants*

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- ASTM C 531, *Standard Test Method for Linear Shrinkage & Coefficient of Thermal Expansion of Chemical Resistance Mortars, Grouts, Monolithic Surfacing, & Polymer Concretes*
- ASTM C 554, *Standard Test Method for Craze Resistance of Fired Glazed Ceramic Whitewares by a Thermal Shock Method*
- ASTM C 557, *Standard Specification for Adhesives for Fastening Wallboard to Wood Framing*
- ASTM C 567, *Standard Test Method for Determining Density of Structural Lightweight Concrete¹*
- ASTM C 568, *Standard Specification for Limestone Dimension Stone*
- ASTM C 578, *Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*
- ASTM C 580, *Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes*
- ASTM C 603, *Standard Test Method for Extrusion Rate and Application Life of Elastomeric Sealants*
- ASTM C 609, *Standard Test Method for Measurement of Small Color Differences Between Ceramic Wall or Floor Tile*
- ASTM C 615, *Standard Specification for Granite Dimension Stone*
- ASTM C 616, *Standard Specification for Quartz-Based Dimension Stone*
- ASTM C 627, *Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester*
- ASTM C 629, *Standard Specification for Slate Dimension Stone*
- ASTM C 635, *Standard Specification for Manufacturing, Performance, & Testing of Metal Suspension Systems for Acoustical Tile & Lay in Panel Ceilings¹*
- ASTM C 639, *Standard Test Method for Rheological (Flow) Properties of Elastomeric Sealants*
- ASTM C 642, *Standard Test Method for Density, Absorption, and Voids in Hardened Concrete*
- ASTM C 647, *Standard Guide to Properties and Tests of Mastics and Coating Finishes for Thermal Insulation (Except Toxicity)*
- ASTM C 648, *Standard Test Method for Breaking Strength of Ceramic Tile*
- ASTM C 650, *Standard Test Method for Resistance of Ceramic Tile to Chemical Substances (Full Program)*
- ASTM C 652, *Standard Specification for Hollow Brick (Hollow Masonry Units Made From Clay or Shale)*
- ASTM C 661, *Standard Test Method for Indentation of Hardness of Elastomeric-Type Sealants by Means of a Durometer*
- ASTM C 665, *Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing*
- ASTM C 666, *Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing*

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- ASTM C 672, *Standard Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals*¹
- ASTM C 679, *Standard Test Method for Tack-Free Time of Elastomeric Sealants*
- ASTM C 711, *Standard Test Method for Low-Temperature Flexibility and Tenacity of One-Part, Elastomeric, Solvent-Release Type Sealants*
- ASTM C 712, *Standard Test Method for Bubbling of One-Part Elastomeric, Solvent-Release Type Sealants (Withdrawn 2002 without replacement)*
- ASTM C 718, *Standard Test Method for Ultraviolet (UV)-Cold Box Exposure of One-Part, Elastomeric, Solvent-Release Type Sealants*
- ASTM C 719, *Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement (Hockman Cycle)*
- ASTM C 724, *Standard Test Method for Acid Resistance of Ceramic Decorations on Architectural-Type Glass*
- ASTM C 725, *Standard Specification for Semidense Mineral Fiber Siding*
- ASTM C 731, *Standard Test Method for Extrudability, After Package Aging, of Latex Sealants*
- ASTM C 732, *Standard Test Method for Aging Effects of Artificial Weathering on Latex Sealants*
- ASTM C 734, *Standard Test Method for Low-Temperature Flexibility of Latex Sealants After Artificial Weathering*
- ASTM C 736, *Standard Test Method for Extension- Recovery and Adhesion of Latex Sealants*
- ASTM C 744, *Standard Specification for Prefaced Concrete and Calcium Silicate Masonry Units*
- ASTM C 756, *Standard Test Method for Cleanability of Surface Finishes*
- ASTM C765, *Standard Test Method for Low-Temperature Flexibility of Preformed Type Sealants*
- ASTM C 772, *Standard Test Method for Oil Migration or Plasticizer Bled-Out of Preformed Sealing Tapes*
- ASTM C 792, *Standard Test Method for Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants*
- ASTM C 793, *Standard Test Method for Effects of Accelerated Weathering on Elastomeric Joint Sealants*
- ASTM C 794, *Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants*
- ASTM C 834, *Standard Specification for Latex Sealants*
- ASTM C 836, *Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course (Full Program)*
- ASTM C 864, *Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers*
- ASTM C 873, *Standard Test Method for Compressive Strength of Concrete Cylinders Cast in Place in Cylindrical Molds*

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- ASTM C 879, *Standard Test Method for Release Papers Used with Preformed Tape Sealants*
- ASTM C 880, *Standard Test Method for Flexural Strength of Dimensional Stone*
- ASTM C 881, *Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete*
- ASTM C 902, *Standard Specification for Pedestrian and Light*
- ASTM C 908, *Standard Test Method for Yield Strength of Preformed Tape Sealants*
- ASTM C 920, *Standard Specification for Elastomeric Joint Sealants*
- ASTM C 936, *Standard Specification for Solid Concrete Interlocking Paving Units*
- ASTM C 947, *Standard Test Method for Flexural Properties of Thin-Section Glass-Fiber Reinforced Concrete (Using Simple with Third-Point Loading)*
- ASTM C 957, *Standard Specification for High-Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane With Integral Wearing Surface*
- ASTM C 961, *Standard Test Method for Lap Shear Strength of Hot-Applied Sealants*
- ASTM C 1002, *Standard Specification for Steel Drill Screws for the Application of Gypsum Board*
- ASTM C 1026, *Standard Test Method for Measuring the Resistance of Ceramic Tile to Freeze-Thaw Cycling*
- ASTM C 1027, *Standard Test Method for Determining Visible Abrasion Resistance of Glazed Ceramic Tile*
- ASTM C 1028, *Standard Test Method for Static Coefficient of Friction of Ceramic Tile & Surfaces (Horizontal Dynamometer Pull-Meter Method)*
- ASTM C 1029, *Standard Specification for Spray-Applied Rigid Cellular Polyurethane Thermal Insulation*
- ASTM C 1072, *Standard Test Method for Measurement of Masonry Flexural Bond Strength*
- ASTM C 1083, *Standard Test Method for Water Absorption of Elastomeric Gaskets and Sealing Materials*
- ASTM C 1087, *Standard Test Method for Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems*
- ASTM C 1090, *Standard Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic-Cement Grout*
- ASTM C 1104, *Standard Test Method for Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation*
- ASTM C 1115, *Standard Specification for Dense Elastomeric Silicone Rubber Gaskets & Accessories*
- ASTM C 1135, *Standard Test Method for Determining Tensile Adhesion Properties When Used in Ext. Insulation and Finish Systems*
- ASTM C 1166, *Standard Test Method for Flame Propagation of Dense and Cellular Elastomeric Gaskets and Accessories*
- ASTM C 1167, *Standard Specification for Clay Roof Tiles³*
- ASTM C 1183, *Standard Test Method for Extrusion Rate of Elastomeric Sealants*
- ASTM C 1185, *Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards*

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- ASTM C 1186, *Standard Specification for Flat Non-Asbestos Fiber-Cement Sheets*
- ASTM C 1216, *Standard Test Method for Adhesion and Cohesion of One-Part Elastomeric Solvent Release Sealants*
- ASTM C 1241, *Standard Test Method for Volume Shrinkage of Latex Sealants During Cure*
- ASTM C 1246, *Standard Test Method for Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants*
- ASTM C 1247, *Standard Test Method for Durability of Sealants Exposed to Continuous Immersion in Liquids*
- ASTM C 1248, *Standard Test Method for Staining of Porous Substrates by Joint Sealants*
- ASTM C 1250, *Standard Test Method for Nonvolatile Content of Cold Liquid-Applied Elastomeric Waterproofing Membranes*
- ASTM C 1257, *Standard Test Method for Accelerated Weathering of Solvent-Type Sealants*
- ASTM C 1262, *Standard Test Method for Evaluating the Freeze-Thaw Durability of Manufactured Concrete Masonry Units and Related Concrete Units*
- ASTM C 1289, *Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board (Full Program)*
- ASTM C 1294, *Standard Test Method for Compatibility of Insulating Glass Edge Sealants with Liquid-Applied Glazing Materials*
- ASTM C 1304, *Standard Test Method for Assessing the Odor Emission of Thermal Insulation Materials*
- ASTM C 1305, *Standard Test Method for Crack Bridging Ability of Liquid-Applied Waterproofing Membrane*
- ASTM C 1306, *Standard Test Method for Hydrostatic Pressure Resistance of a Liquid-Applied Waterproofing Membrane*
- ASTM C 1315, *Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete (Except Flash Point)*
- ASTM C 1338, *Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings*
- ASTM C 1353, *Standard Test Method for Using the Taber Abraser for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic*
- ASTM C 1354, *Standard Test Method for Strength of Individual Stone Anchorages in Dimension Stone*
- ASTM C 1378, *Standard Test Method for Determination of Resistance to Staining*
- ASTM C 1396, *Standard Specification for Gypsum Board*
- ASTM C 1403, *Standard Test Method for Rate of Water Absorption of Masonry Mortars*
- ASTM C 1492, *Standard Specification for Concrete Roof Tile*
- ASTM C 1505, *Standard Test Method for Determination of Breaking Strength of Ceramic Tiles by Three-Point Loading*
- ASTM C 1506, *Standard Test Method for Water Retention of Hydraulic Cement-Based Mortars and Plasters*

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- ASTM C 1519, *Standard Practice for Evaluating Durability of Building Construction Sealants by Laboratory Accelerated Weathering Procedures*
- ASTM C 1522, *Standard Test Method for Extensibility After Heat Aging of Cold Liqui-Applied Elastomeric Waterproofing Membranes*
- ASTM C 1523, *Standard Test Method for Determining Modulus, Tear and Adhesion Properties of Precured Elastomeric Joint Sealants*
- ASTM C 1536, *Standard Test Method for Measuring the Yield of Aerosol Foam Sealants*
- ASTM C 1585, *Standard Test Method for Measurement of Rate of Absorption of Water by Hydraulic-Cement Concretes*
- ASTM C 1642, *Standard Practice for Determining Air Leakage Rates of Aerosol Foam Sealants & Other Construction Joint Fill and Insulation Materials*
- ASTM D 95, *Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation*
- ASTM D 143, *Standard Test Method for Testing Small Clear Specimens of Timber¹*
- ASTM D 146, *Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing*
- ASTM D 198, *Standard Test Method for Static Tests of Lumber in Structural Sizes¹*
- ASTM D 226, *Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing*
- ASTM D 228, *Standard Test Method for Asphalt Roll Roof, Cap Sheets, And Shingles*
- ASTM D 256, *Standard Test Method for Determining Pendulum Impact Resistance of Notched Plastics¹*
- ASTM D 312, *Standard Specification for Asphalt Used in Roofing*
- ASTM D 344, *Standard Test Method for Relative Hiding Power of Paints by Visual Evaluation of Brushouts*
- ASTM D 395, *Standard Test Method for Rubber Property - Compression Set*
- ASTM D 412, *Standard Test Method for Rubber Properties in tension*
- ASTM D 413, *Standard Test Method for Rubber Property - Adhesion to Flexible Substrate*
- ASTM D 471, *Standard Test Method for Rubber Property - Effects of Liquids*
- ASTM D 522, *Standard Test Method for Mandrel Bend Test of Attached Organic Coatings*
- ASTM D 523, *Standard Test Method for Specular Gloss*
- ASTM D 543, *Standard Practice for Evaluating the Resistance of Plastics to Chemical Reagents*
- ASTM D 545, *Standard Test Methods for Preformed Expansion Joint Fillers for Concrete Construction (Nonextruding and Resilient Types)*
- ASTM D 562, *Standard Test Method for Consistency of Paints using Stormer Viscometer*
- ASTM D 570, *Standard Test Method for Water Absorption of Plastics¹*
- ASTM D 573, *Standard Test Method for Rubber - Deterioration in an Air Oven*
- ASTM D 575, *Standard Test Method for Rubber Properties in Compression*

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- ASTM D 610, *Standard Test Method for Evaluating Degree of Rusting on Painted Steel Surfaces*
- ASTM D 624, *Standard Test Method for Rubber Property-Tear Resistance*
- ASTM D 635, *Standard Test Method for Rate of Burning and/or extent and time of Burning of Self-Supporting Plastics in a Horizontal Position³*
- ASTM D 638, *Standard Test Method for Tensile Properties Of Plastics³*
- ASTM D 648, *Standard Test Method for Deflection Temperature of Plastics Under Flexural Load*
- ASTM D 660, *Standard Test Method for Evaluating Degree of Checking of Exterior Paints*
- ASTM D 661, *Standard Test Method for Evaluating Degree of Cracking in Exterior Paints*
- ASTM D 662, *Standard Test Method for Evaluating Degree of Erosion of Exterior Paints*
- ASTM D 673, *Standard Test Method for Mar Resistance of Plastics (Withdrawn 1998, no replacement)*
- ASTM D 695, *Standard Test Method for Compressive Properties of Rigid Plastics*
- ASTM D 696, *Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30 and 30 C¹*
- ASTM D 714, *Standard Practice for Evaluating Degree of Blistering of Paints*
- ASTM D 732, *Standard Test Method for Shear Strength of Plastics by Punch Tool*
- ASTM D 737, *Standard Test Method for Air Permeability of Textile Fabrics*
- ASTM D 746, *Standard Test Method for Brittleness Temperature of Plastics and Elastomers by Impact*
- ASTM D 751, *Standard Test Method for Coated Fabrics*
- ASTM D 756, *Standard Test Method for Determination of Weight and Shape Changes of Plastics Under Accelerated Service Conditions (Withdrawn 1998, no replacement)*
- ASTM D 772, *Standard Practice for Evaluating Degree of Flaking of Exterior Paints*
- ASTM D 774, *Standard Test Method for Bursting Strength of Paper*
- ASTM D 779, *Standard Test Method for Water Resistance of Paper, Paperboard and Other Sheet Materials by the Dry Indicator Method*
- ASTM D 790, *Standard Test Method for Flexural Properties of Plastics/Electrical Insulating Materials^{1, 3}*
- ASTM D 792, *Standard Test Method for Density and Specific Gravity of Plastics by Displacement¹*
- ASTM D 816, *Standard Test Methods for Rubber Cements*
- ASTM D 822, *Standard Practice for Conducting Tests on Paint and Related Coatings and Materials Using Filtered Open-Flame Carbon-Arc Light and Weather Exposure Apparatus*
- ASTM D 824, *Standard Test Method for Rate of Absorption of Water by Bibulous Papers*
- ASTM D 828, *Standard Test Method for Tensile Breaking Strength of Paper and Paperboard*

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- ASTM D 829, *Standard Test Methods for Wet Tensile Breaking Strength of Paper and Paper Products*
- ASTM D 865, *Standard Test Method for Rubber - Deterioration by Heating in Air*
- ASTM D 869, *Standard Test Method for Evaluating Degree of Settling of Paint*
- ASTM D 870, *Standard Test Method of Water Immersion*
- ASTM D 882, *Standard Test Method for Tensile Properties of Thin Plastic Sheeting*
- ASTM D 885, *Standard Test Methods for Tire Cords, Tire Cord Fabrics, and Industrial filament Yarns Made from Manufactured Organic-based Fibers*
- ASTM D 896, *Standard Test Method for Resistance of Adhesive Bonds to Chemical Reagents*
- ASTM D 897, *Standard Test Method for Tensile Properties of Adhesive Bonds*
- ASTM D 903, *Standard Test Method for Peel or Stripping Strength of Adhesive Bonds*
- ASTM D 905, *Standard Test Method for Strength properties of Adhesive Bonds in Shear by Compression Loading*
- ASTM D 906, *Standard Test Method for Strength Properties of Adhesives in Plywood Type Construction in Shear in Tension Loading*
- ASTM D925, *Standard Test Methods for Rubber Property - Staining of Surface (Contrast, Migration, and Diffusion)*
- ASTM D 953, *Standard Test Method for Bearing Strength of Plastics*
- ASTM D 968, *Standard Test Method for Abrasion Resistance of Organic Coating by Falling Abrasive*
- ASTM D 1002, *Standard Test Method for Strength Properties of Adhesives in Shear by Tension Loading*
- ASTM D 1003, *Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics*
- ASTM D 1004, *Standard Test Method for Initial Tear Resistance of Plastic Film and Sheeting*
- ASTM D 1005, *Standard Test Method for Measurement of Dry-Film Thickness of Organic Coatings Using Micrometers*
- ASTM D 1006, *Standard Practice for Conducting Exterior Exposure Tests of Paints on Wood*
- ASTM D 1014, *Standard Practice for Conducting Exposure Tests of Paints on Steel*
- ASTM D 1037, *Standard Test Method for Evaluating Properties of Wood Base Fiber and Particle Panel Materials¹*
- ASTM D 1042, *Standard Test Method for Linear Dimensional Changes of Plastics Under Accelerated Service Conditions^{1,2}*
- ASTM D 1044, *Standard Test Method for Resistance of Transparent Plastics to Surface Abrasion*
- ASTM D 1056, *Standard Specification for Flexible Cellular Materials - Sponge or Expanded Rubber*
- ASTM D 1117, *Standard Guide for Evaluating Nonwoven Fabrics*
- ASTM D 1148, *Standard Test Method for Rubber Deterioration - Heat and Ultraviolet Light Discoloration of Light-colored Surfaces*

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- ASTM D 1149, *Standard Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing*
- ASTM D 1151, *Standard Test Method for Effect of Moisture and Temperature on Adhesive Bonds*
- ASTM D 1183, *Standard Test Method for Resistance of Adhesives to Cyclic Lab Aging Conditions*
- ASTM D 1184, *Standard Test Method for Flexural Strength of Adhesive Bonded Assemblies*
- ASTM D 1204, *Standard Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperatures*
- ASTM D 1229, *Standard Test Method for Rubber Property - Compression Set at Low Temperatures*
- ASTM D 1242, *Standard Test Method for Resistance of Plastic Materials to Abrasion (Withdrawn 2004, no replacement)*
- ASTM D 1296, *Standard Test Method for Odor of Volatile Solvents and Diluents*
- ASTM D 1308, *Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Fibers*
- ASTM D 1309, *Standard Test Method for Settling Properties of Traffic Paints During Storage*
- ASTM D 1388, *Standard Test Method for Stiffness of Fabrics*
- ASTM D 1400, *Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Nonconductive Coatings Applies to a Nonferrous Metal Base (Withdrawn 2006, replaced by ASTM D 7091)*
- ASTM D 1413, *Standard Test Method for Wood Preservatives by Laboratory Soil-Block Cultures¹*
- ASTM D 1435, *Standard Practice for Outdoor Weathering of Plastics¹*
- ASTM D 1474, *Standard Test Methods for Indentation Hardness of Organic Coatings*
- ASTM D 1475, *Standard Test Method for Density of Liquid Coatings, Inks, and Related Products*
- ASTM D 1494, *Standard Test Method for Diffuse Light Transmission Factor of Reinforced Plastics Panels*
- ASTM D 1621, *Standard Test Method for Compressive Properties of Rigid Cellular Plastics*
- ASTM D 1622, *Standard Test Method for Apparent Density of Rigid Cellular Plastics*
- ASTM D 1623, *Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics*
- ASTM D 1640, *Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature*
- ASTM D 1653, *Standard Test Method for Water Vapor Transmission of Organic Coating Films*
- ASTM D 1654, *Standard Test Method for Evaluation of Painted/Coated Specimens Subjected to Corrosive Environments*

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- ASTM D 1666, *Standard Test Method for Conducting Machining Tests of Wood and Wood Based Materials*
- ASTM D 1679, *Standard Specification for Synthetic Rubber Heat- and Moisture-Resisting Insulation for Wire and Cable 75°C Operation (Withdrawn 2006, no replacement)*
- ASTM D 1709, *Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method*
- ASTM D 1735, *Standard Test Method for Testing Water Resistance of Coatings Using Water Fog Apparatus*
- ASTM D 1751, *Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction*
- ASTM D 1761, *Standard Test Methods for Mechanical Fasteners in Wood¹*
- ASTM D 1777, *Standard Test Method for Thickness for Textile Materials*
- ASTM D 1781, *Standard Test Method for Climbing Drum Peel Test for Adhesives¹*
- ASTM D 1784, *Standard Test Method for Rigid PVC Compounds and CPVC Compounds*
- ASTM D 1849, *Standard Test Method for Package Stability of Paint*
- ASTM D 1875, *Standard Test Method for Density of Adhesives in Fluid Form*
- ASTM D 1876, *Standard Test Method for Peel Resistance of Adhesives*
- ASTM D 1922, *Standard Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method*
- ASTM D 1929, *Determining Ignition Temperature of Plastic³*
- ASTM D 1970, *Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection*
- ASTM D 2017, *Standard Test Method of Accelerated Laboratory Test of Natural Decay Resistance of Woods¹*
- ASTM D 2020, *Standard Test Methods for Mildew (Fungus) Resistance of Paper and Paperboard*
- ASTM D 2065, *Standard Test Method for Determination Edge Performance of Composite Wood Products Under Surfactant Accelerated Moisture Stress*
- ASTM D 2126, *Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging*
- ASTM D 2164, *Standard Test Methods of Testing Structural Insulating Roof Deck (Withdrawn 2005, no replacement)*
- ASTM D 2196, *Standard Test Method for Rheological Properties of Non-Newtonian Materials by Rotational (Brookfield) Viscometer*
- ASTM D 2197, *Standard Test Method for Adhesion of Organic Coatings by Scrape Adhesion*
- ASTM D 2202, *Standard Test Method for Slump of Sealants*
- ASTM D 2203, *Staining from Sealants*
- ASTM D 2240, *Standard Test Method for Rubber Property - Durometer Hardness*
- ASTM D 2243, *Standard Test Method for Freeze-Thaw Resistance of Water-Borne Coatings*

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- ASTM D 2244, *Calculation of Color Differences From Instrumentally Measured Color Coordinates*¹
- ASTM D 2246, *Standard Method of Testing Finishes on Primed Metallic Substrates for Humidity-Thermal Cycle Cracking (Withdrawn 1992, no replacement)*
- ASTM D 2247, *Standard Test Method for Testing Water Resistance of Coatings in 100% Relative Humidity*²
- ASTM D 2248, *Standard Practice for Detergent Resistance of Organic Coatings*
- ASTM D 2261, *Standard Test Method for Tearing Strength of Fabrics by the Tongue (Single-Rip) Procedure*
- ASTM D 2294, *Standard Test Method of Creep Properties of Adhesives in Shear by Tension Loading*
- ASTM D 2299, *Recommended Practice for Determining Relative Stain Resistance of Plastics (Withdrawn 1992, no replacement)*
- ASTM D 2370, *Standard Test Method for Tensile Properties of Organic Coatings*
- ASTM D 2377, *Standard Test Method for Tack-Free Time of Caulking Compounds and Sealants*
- ASTM D 2394, *Standard Test Method for Simulated Service Testing of Wood and Wood-Based Finish Flooring*
- ASTM D 2395, *Standard Test Method for Specific Gravity of Wood and Wood-Based Materials*
- ASTM D 2444, *Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)*
- ASTM D 2452, *Standard Test Method for Extrudability of Oil- and Resin-Base Caulking Compounds*
- ASTM D 2485, *Standard Test Methods for Evaluating Coatings For High Temperature Service*
- ASTM D 2486, *Standard Test Method for Scrub-Resistance of Interior Latex Flat Wall Paint*
- ASTM D 2556, *Standard Test Method for Apparent Viscosity of Adhesives Having Shear-Rate-Dependent Flow Properties*
- ASTM D 2559, *Standard Specification for Adhesives for Structural Laminated Wood Products for Use Under Exterior (Wet Use) Exposure Conditions*
- ASTM D 2565, *Standard Practice for Xenon-Arc Exposure of Plastics Intended for Outdoor Applications*¹
- ASTM D 2583, *Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor*
- ASTM D 2616, *Standard Test Method for Evaluation of Visual Color Difference With a Gray Scale*
- ASTM D 2632, *Standard Test Method for Rubber Property-Resilience by Vertical Rebound*
- ASTM D 2718, *Standard Test Methods for Structural Panels in Planar Shear*
- ASTM D 2794, *Standard Test Method for Resistance of Organic Coating to the Effects of Rapid Deformation*
- ASTM D 2842, *Standard Test Method for Water Absorption of Rigid Cellular Plastics*

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- ASTM D 2843, *Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics*³
- ASTM D 2856, *Standard Test Method for Open-Cell Content of Rigid Cellular Plastics by the Air Pycnometer (Withdrawn 2006, replaced with ASTM D 6226)*
- ASTM D 2990, *Standard Test Method for Tensile, Compressive, Flexural Creep/Rupture of Plastics*
- ASTM D 3003, *Standard Test Method for Pressure Mottling and Blocking Resistance and Creep-Rupture of Plastics*
- ASTM D 3018, *Standard Test Method for Class A Asphalt Shingles Surfaced with Mineral Granules*
- ASTM D 3165, *Standard Test Method for Strength of Adhesives in Shear by Tension Loading of Laminated Assemblies*
- ASTM D 3167, *Standard Test Method for Floating Roller Peel Resistance of Adhesives*
- ASTM D 3170, *Standard Test Method for Chipping Resistance of Coatings*
- ASTM D 3258, *Standard Test Method for Porosity of White or Near-White Paint Films by Staining*
- ASTM D 3273, *Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber*
- ASTM D 3281, *Standard Test Method for Formability of Attached Organic Coatings with Impact-Wedge Bend Apparatus (Withdrawn 1997, no replacement)*
- ASTM D 3285, *Standard Test Method for Water Absorptiveness of Nonbibulous Paper and Paperboard (Cobb Test)*
- ASTM D 3330, *Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape at 180° Angle*
- ASTM D 3359, *Standard Test Method for Measuring Adhesion by Tape Test*
- ASTM D 3363, *Standard Test Method for Film Hardness by Pencil Test*
- ASTM D 3450, *Standard Test Method for Washability Properties of Interior Architectural Coatings*
- ASTM D 3462, *Standard Specification for Asphalt Shingles Made from Glass Felt and Surfaces with Mineral Granules*
- ASTM D 3656, *Standard Specification for insect Screening and Louver Cloth Woven from Vinyl-Coated Glass Yarns*
- ASTM D 3679, *Standard Test Method for Rigid PVC Siding*^{1, 3}
- ASTM D 3719, *Standard Test Method for Quantifying Dirt Collection on Coated Exterior Panels*
- ASTM D 3759, *Standard Test Method for Breaking Strength and Elongation of Pressure-Sensitive Tape*
- ASTM D 3786, *Standard Test Method for Hydraulic Bursting Strength of Textile Fabrics*
- ASTM D 4060, *Standard Test Method for Abrasion Resistance of Organic Coatings by Taber Abraser*
- ASTM D 4062, *Standard Test Method for Leveling of Paints by Draw-Down Method*

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- ASTM D 4073, *Standard Test Method for Tensile-Tear Strength of Bituminous Roofing Membranes*
- ASTM D 4073, *Standard Test Method for Tensile Tear Strength of Bituminous Roofing Membranes*
- ASTM D 4138, *Standard Test Method for Measurement of Dry Film Thickness of Protective Coating Systems by Destructive Means*
- ASTM D 4145, *Standard Test Method for Coating Flexibility of Prepainted Sheet*
- ASTM D 4214, *Standard Practice for Evaluating the Degree of Chalking of Exterior Paint Films*
- ASTM D 4216, *Standard Test Method for PVC and Related Plastic Building Products Compounds²*
- ASTM D 4226, *Standard Test Method for Impact Resistance of Rigid PVC Building Products^{1,2}*
- ASTM D 4250, *Standard Test Method for Water-Holding Capacity of Bibulous Fibrous Products*
- ASTM D 4329, *Standard Practice for Operating Light and Water Apparatus (Fluorescent UV and Condensation Type) for Exposure of Plastics¹*
- ASTM D 4339, *Standard Test Method for Determination of the Odor of Adhesives*
- ASTM D 4400, *Standard Test Method for Sag Resistance of Paints Using a Multinotch Applicator*
- ASTM D 4434, *Standard Specification for Poly (Vinyl Chloride) (PVC) Sheet Roofing*
- ASTM D 4442, *Standard Test Methods for Direct Moisture Contact Measurement of Wood and Wood-Based Materials*
- ASTM D 4477, *Standard Specification for Rigid (Unplasticized) Poly (Vinyl Chloride) (PVC) Soffit*
- ASTM D 4495, *Standard Test Method for Impact Resistance of Poly (Vinyl Chloride) (PVC) Rigid Profiles by Means of a Falling Weight*
- ASTM D 4541, *Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers*
- ASTM D 4585, *Standard Test Method for Testing Water Resistance of Coatings Using Controlled Condensation*
- ASTM D 4587, *Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation*
- ASTM D 4637, *Standard Specification for EPDM Sheet Used In Single-Ply Roof Membrane*
- ASTM D 4726, *Standard Test Method for White Rigid PVC Exterior Profile Extrusions Used for Assembled Windows and Doors²*
- ASTM D 4798, *Standard Test Method for Accelerated Weathering Test Conditions and Procedures for Bituminous Materials*
- ASTM D 4803, *Standard Test Method for Predicting Heat Buildup in PVC Building Products*
- ASTM D 4812, *Standard Test method for Unnotched Cantilever Beam Impact Resistance of Plastics*

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- ASTM D 4830, *Standard Test Methods for Characterizing Thermoplastic Fabrics Used in Roofing and Waterproofing*
- ASTM D 4869, *Standard Test Method for Asphalt-Saturated Organic Felt Shingle Underlayment Used in Roofing*
- ASTM D 4977, *Standard Test Method for Granule Adhesion to Mineral Surfaced Roofing by Abrasion*
- ASTM D 5009, *Standard Test Method for Evaluating and Comparing Transfer Efficiency of Spray Applied Coatings Under Laboratory Conditions*
- ASTM D 5034, *Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)*
- ASTM D5035, *Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)*
- ASTM D 5041, *Standard Test Method for Fracture Strength in Cleavage of Adhesives in Bonded Joints*
- ASTM D 5064, *Standard Practice for Conducting a Patch Test to Assess Coating Compatibility*
- ASTM D 5276, *Standard Test Method for Drop Test of Loaded Containers by Free Fall*
- ASTM D 5312, *Standard Test Method for Evaluating Durability of Rock for Erosion Control Under Freezing and Thawing Conditions*
- ASTM D 5385, *Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes*
- ASTM D 5420, *Standard Test Method for Impact Resistance by Falling Weight (Gardner Impact)¹*
- ASTM D 5456, *Standard Specification for Evaluation of Structural Composite Lumber Products*
- ASTM D 5572, *Standard Specification for Adhesives Used for Finger Joints in Nonstructural Lumber Products*
- ASTM D 5583, *Standard Test Method for Detection and Estimation of Retention of Wood Preservatives by Aspergillus Bioassaying*
- ASTM D 5602, *Standard Test Method for Static Puncture Resistance of Roofing Membrane Specimens*
- ASTM D 5628, *Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimens by Means of a Falling Dart*
- ASTM D 5635, *Standard Test Method for Dynamic Puncture Resistance of Roofing Membrane Specimens*
- ASTM D 5683, *Standard Test Method for Flexibility of Roofing and Waterproofing Materials and Membranes*
- ASTM D 5733, *Standard Test Method for Tearing Strength of Nonwoven Fabrics by the Trapezoid Procedure (Withdrawn 2008, no replacement)*
- ASTM D 5751, *Standard Specification for Adhesives Used for Laminate Joints in Nonstructural Lumber Products*
- ASTM D 5764, *Standard Test Method for Evaluating Dowel-Bearing Strength of Wood and Wood-Based Products*

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- ASTM D 5824, *Standard Test Method for Determining Resistance to Delamination of Adhesive Bonds in Overlay-Wood Core Laminates Exposed to Heat and Water*
- ASTM D 5893, *Standard Specification for Cold Applied, Single Component, Chemically Curing Silicone Joint Sealant for Portland Cement Concrete Pavements*
- ASTM D 5894, *Standard Test Method for Cyclic Salt Fog/UV Exposure of Painted Metal*
- ASTM D 5957, *Standard Guide for Flood Testing Horizontal Waterproofing Installations*
- ASTM D 6037, *Standard Test Methods for Dry Abrasion Mar Resistance of High Gloss Coatings (Method A)*
- ASTM D 6083, *Standard Test Method for Liquid Applied Acrylic Coating Used in Roofing*
- ASTM D 6108, *Standard Test Method for Compressive Properties of Plastic Lumber and Shapes*
- ASTM D 6109, *Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastic Lumber¹*
- ASTM D 6110, *Standard Test Method for Determining Charpy Impact Resistance of Notched Specimen of Plastics*
- ASTM D 6112, *Standard Test Method for Compressive and Flexural Creep and Creep-Rupture of Plastic Lumber and Shapes*
- ASTM D 6117, *Standard Test Methods for Mechanical Fasteners in Plastic Lumber and Shapes*
- ASTM D 6132, *Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Over Concrete Using an Ultrasonic Gage*
- ASTM D 6134, *Standard Specification for Vulcanized Rubber Sheets Used in Waterproofing Systems*
- ASTM D 6341, *Standard Test Method for Determination of the Linear Coefficient of Thermal Expansion of Plastic Lumber and Plastic Lumber Shapes Between –30 and 140°F*
- ASTM D 6571, *Standard Guide for Testing Industrial Protective Coatings*
- ASTM D 6578, *Standard Practice for Determination of Graffiti Resistance*
- ASTM D 6662, *Standard Specification for Polyolefin-Based Lumber Decking Boards¹*
- ASTM D 6695, *Standard Practice for Xenon-Arc Exposures of Paint and Related Coatings*
- ASTM D 6904, *Standard Practice for Resistance to Wind-Driven Rain for Exterior Coatings Applied in Masonry*
- ASTM D6944, *Standard Test Method for Resistance of Cured Coatings to Thermal Cycling*
- ASTM E 8, *Standard Test Method for Tension Testing of Metallic Materials^{1, 3}*
- ASTM E 18, *Standard Test Methods for Rockwell Hardness of Metallic Materials*
- ASTM E 96, *Standard Test Method for Water Vapor Transmission of Materials¹*
- ASTM E 136, *Behavior of Materials in a Vertical Tube Furnace at 750°C*
- ASTM E 154, *Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls or as Ground Cover*

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- ASTM E 162, *Standard Test Method for Surface Flammability of Materials Using Radiant Heat Energy Source*
- ASTM E 228, *Standard Test Method for Linear Thermal Expansion of Solid Materials with a Vitreous Silica Dilatometer (CLTE)*
- ASTM E 308, *Standard Test Method for Computing Color of Objects using CIE System*
- ASTM E 313, *Standard Practice for Calculating Yellowness and Whiteness Indices from Instrumentally Measured Color Coordinates*
- ASTM E 405, *Standard Test Method for Wear Testing Rotary Objects for Windows²*
- ASTM E 488, *Standard Test Method for Strength of Anchors in Concrete and Masonry Elements³*
- ASTM E 648, *Standard Test Method for Critical Radiant Flux of Floor-covering Systems Using a Radiant Heat Energy Source*
- ASTM E 661, *Standard Test Method for Performance of Wood and Wood-based Floor and Roof Sheathing Under Concentrated Static and Impact Loads¹*
- ASTM E 662, *Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials*
- ASTM E 736, *Standard Test Method for Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members*
- ASTM E 761, *Standard Test Method for Compressive Strength of Sprayed Fire-Resistive Material Applied to Structural Members*
- ASTM E 822, *Standard practice for Determining Resistance of Solar Collector Covers to Hail Impact with Propelled Ice Balls*
- ASTM E 831, *Standard Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis*
- ASTM E 859, *Standard Test Method for Air Erosion of Sprayed Fire-Resistive Materials (SFRMs) Applied to Structural Members*
- ASTM E 970, *Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using Radiant Heat Source*
- ASTM E 991, *Standard Test Method for Color Measurements of Fluorescent Specimens*
- ASTM E 1300, *Standard Test Method for Determining the Minimum Thickness and Glass Type Required to Resist Load*
- ASTM E 1347, *Standard Test Method for Color/Color Difference by Tristimulus Colorimetry*
- ASTM E 1360, *Standard Test Method for Specifying Color by Using Optical Society of America Uniform Color Scales System*
- ASTM E 1399, *Standard Test Method for Cyclic Movement and Measuring the Minimum & Maximum Joint Widths of Architectural Joint Systems*
- ASTM E 1423, *Standard Test Method for Determining the Steady State Thermal Transmittance of Fenestration Systems*
- ASTM E 1424, *Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, & Doors Under Specified Pressure & Temperature Difference*

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- ASTM E 1541, *Standard Test Method for Specifying and Matching Color Using the Colorcurve System*
- ASTM E 1745, *Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs*
- ASTM E 1753, *Standard Practice for Use of Qualitative Chemical Spot Test Kits for Detection of Lead in Dry Paint Films*
- ASTM E 2089, *Standard Practice for Determining Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for Use in Class PB Exterior Insulation and Finish Systems (EIFS), after Exposure to a Sodium Hydroxide Solution*
- ASTM E 2178, *Standard Test Method for Air Permeance of Building Materials*
- ASTM E 2485, *Standard Test Method for Freeze/Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistive Barrier Coatings*
- ASTM E 2486, *Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)*
- ASTM F 150, *Standard Test Method for Electrical Resistance of Conductive Resilient Flooring*
- ASTM F 476, *Standard Test Method for Security of Swing Door Assemblies*³
- ASTM F 733, *Standard Practice for Optical Distortion Deviation of Transparent Parts Using the Double-Exposure Method*
- ASTM F 778, *Standard Test Methods for Gas Flow Resistance Testing of Filtration Media*
- ASTM F 1037, *Standard Test Method for Visual Rating of Appearance of Resilient Floors After In-Service Exposure to Foot Traffic*
- ASTM F 1040, *Standard Specifications for Filter Units, Air-conditioning, Viscous-impingement and Dry Types, Replaceable*
- ASTM F 1316, *Standard Test Methods for Measuring the Transmissivity of Transparent Parts*
- ASTM F 1575, *Standard Test Method for Determining Bending Yield Moment of Nails*
- ASTM F 1642, *Standard Test Method for Glazing and Glazing Systems Subject to Airblast Loadings*
- ASTM F 1679, *Standard Test Method for Using a Variable Incidence Tribometer (VIT) (Withdrawn 2006, no replacement)*¹
- ASTM G 6, *Standard Test Method for Abrasion Resistance of Pipeline Coatings*
- ASTM G 21, *Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi*
- ASTM G 22, *Standard Practice for Determining Resistance of Plastics to Bacteria (Withdrawn 2001, no replacement)*
- ASTM G 26, *Standard Practice for Xenon Arc Exposure of Plastics Intended for Outdoor Applications (Replaced with G155)*³
- ASTM G 53, *Standard Practice for Operating Light- and Water-Exposed Apparatus (Fluorescent UV-Condensation type) for Exposure of Nonmetallic Materials (Replaced by ASTM G 154)*
- ASTM G 85, *Standard Test Method for Modified Salt Spray (Fog) Testing*³

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- ASTM G 154, *Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials*³
- ASTM G 155, *Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Nonmetallic Materials*^{1, 3}
- AWWA E12, *Corrosion Resistance*¹
- CAN 82.1, *Data Collection*
- CAN/CGSB 82.1, *Windows, Instructions*
- CAN/CGSB 19.13-M87, *Sealing Compound, One-Component, Elastomeric, Chemical Curing*
- CAN/CGSB 19.18-M87, *Sealing Compound, One-Component, Silicone Base Solvent Curing*
- CAN/CGSB 41.24-95, *Canadian General Standards Board - Rigid Vinyl Siding, Soffits and Fascia*
- CAN/CGSB 82.5-M88, *Canadian General Standards Board - Insulated Steel Doors (Sections 6.2.1.1, 6.2.1.2, 6.2.1.3, 6.2.1.4, 6.2.2 and 6.3.3.3)*
- CAN/CSA A440, *Windows, Instructions*¹
- CAWM CMBS01, *Forced Entry Resistance of Sliding Glass Doors*
- CAWM CMBS01, *Forced Entry Resistance Test for Windows*
- Cisca 2007, *Recommended Test Procedures for Access Floors*
- Dade County Moisture Durability Test for Wood Products
- FM 4473, *Hail Test for Roofing*¹
- GB 16776-1997, *Standards of People's Republic of China, Structural Silicone*
- ICBO 1403.6.4.3-1404.1, *Uniform Building Code*
- ICBO *Dust Infiltration Test for Roof Ridge Vents*
- ICBO *Foot Traffic Resistance Test for Roofing Materials*
- ICC-ES AC04-R1-0796, *Acceptance Criteria for Sandwich Panels*¹
- ICC-ES AC05, *Acceptance Criteria for Sandwich Panel Adhesives*
- ICC-ES AC07-R2-996, *Acceptance Criteria for Special Roofing Systems*¹
- ICC-ES AC12, *Acceptance Criteria for Foam Plastic Insulation*
- ICC-ES AC15, *Acceptance Criteria for Concrete Floor, Roof, and Wall Systems and Concrete Masonry Wall Systems*¹
- ICC-ES AC16, *Acceptance Criteria for Plastic Skylights*¹
- ICC-ES AC24-R1-0799, *Acceptance Criteria for Exterior Insulation and Finish Systems*
- ICC-ES AC25, *Acceptance Criteria for Metal Composite Material*
- ICC-ES AC37, *Acceptance Criteria for Vinyl Siding*
- ICC-ES AC38, *Acceptance Criteria for Weather-resistive Barriers*
- ICC-ES AC39, *Acceptance Criteria for Walking Decks*
- ICC-ES AC51, *Acceptance Criteria for Pre-cast Stone Veneer*
- ICC-ES AC79, *Acceptance Criteria for Skylights with Plastic Frames*
- ICC-ES AC92, *Acceptance Criteria for Polymer-based and Polymer-modified Exterior and Interior Wall Cladding*
- ICC-ES AC100, *Acceptance Criteria for Air-Conditioning Equipment Pads*
- ICC-ES AC120, *Acceptance Criteria for Wood Screws*

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- ICC-ES AC148, *Acceptance Criteria for Self-adhering Flashing Tape*¹
- ICC-ES AC177, *Acceptance Criteria for Translucent Fiberglass Reinforced Plastic (FRP) Faced Panel Wall, Roof and Skylight Systems (Sections 4.1.2, 4.1.3, 4.9 and 4.10 only)*
- ICC-ES AC180, *Acceptance Criteria for Clay and Concrete Roof Tiles*
- ICC-ES AC181, *Acceptance Criteria for Rigid Cellular Polyurethane*
- ICC-ES AC207, *Acceptance Criteria for Polypropylene Roof Underlayments*
- ICC-ES AC386, *Acceptance Criteria for Fiber-Reinforced Magnesium-Oxide-Based Sheets*
- ISDI 105, *Mechanical Performance Standards for Insulated Steel Door Systems*
- ISDI 106, *Prime Painted Steel Surfaces for Steel Doors and Frames*
- ISO 7389, *Building Construction - Jointing Products - Determination of Elastic Recovery*
- ISO 7390, *Building Construction - Jointing Products - Determination of Resistance to Flow*
- ISO 8339, *Building Construction - Jointing Products - Sealants - Determination of Tensile Properties*
- ISO 8340, *Building Construction - Jointing Products - Sealants - Determination of Tensile Properties at Maintained Extension*
- ISO 9046, *Building Construction - Sealants - Determination of Adhesion/Cohesion Properties at Constant Temperature*
- ISO 9047, *Building Construction - Sealants - Determination of Adhesion/Cohesion Properties at Variable Temperature*
- ISO 9048, *Building Construction - Jointing Products - Determination of Extrudability of Sealants using Standardized Apparatus*
- ISO 10563, *Building Construction - Sealants for Joints - Determination of Change in Mass and Volume*
- ISO 10590, *Sealants - Determination of Adhesion/Cohesion Properties at Maintained Extension after Immersion in Water*
- ISO 10591, *Sealants - Determination of Adhesion/Cohesion Properties after Immersion in Water*
- ISO 11431, *Sealants - Determination of Adhesion/Cohesion Properties Exposure to Artificial Light Through Glass*
- ISO 11432, *Sealants - Determination of Resistance to Compression*
- MIL-STD-AMS-T-23397, *Tapes, Pressure Sensitive Adhesive, for Masking During Paint Stripping Operations*
- MIL-STD-ATPD 2352P, *Transparent Armor (Sections 3.3.5, 3.4.1, 3.4.1.1, 3.4.2, 3.4.4, 4.3.1.1, 4.3.1.2 and 4.3.2)*
- MIL-STD-810G, *Department of Defense Test Method Standard - Environmental Engineering Considerations and Laboratory Tests - Method 505 - Sun Exposure Weathering and Method 508.5 - Fungus*
- NWWDA TM-1, *Soil Block*
- NWWDA TM-2, *Test Method for Swellometer*
- NWWDA TM-5, *Split Resistance Test*

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- NWWDA TM-6, *Adhesive Bond*
- NWWDA TM-7, *Cycle Slam*
- NWWDA TM-8, *Hinge Loading Resistance Test*
- NWWDA TM-10, *Screw Holding Capacity*
- SAE J1960, *Surface Vehicle Standard - Accelerated Exposure of Automotive Exterior Materials Using a Controlled Irradiance Water-cooled Xenon Arc Apparatus*
- SAE Z26.1, *Safety Glazing Materials for Glazing Motor Vehicles and Motor Vehicle Equipment Operating on Land Highways - Safety Standard*
- SIGMA 73-8-2B, *Chemical Effects of Glazing Compounds on Elastomeric Edge Seals*
- SMA 1004, *Aluminum Tubular Frames Screens for Windows*
- SMA 1101, *Specifications for Retractable Insect Screen Systems*
- SMA 1201, *Specifications for Insect Screens for Windows, Sliding Doors, and Swinging Doors*
- SMA 2006, *Aluminum Sliding Screen Doors*
- SMA 6001, *Metal Protections Screens*
- SMT 31, *Attachments of Screening to Frame*
- SWRI *Sealant Validation Program*
- SWRI *Wall Coating Validation Program*
- TAPPI T460, *Air Resistance of Paper (Gurley Method)*
- TAPPI T803, *Puncture Test of Container Board*
- TAS 101, *Test Procedures for Static Uplift Resistance of Mortar or Adhesive Set Tile Systems³*
- TAS 102, *Test Procedures for Static Uplift Resistance of Mechanically Attached, Rigid Roof Systems³*
- TAS 114, Appendix E, *Test Procedure for Corrosion Resistance of Fasteners, Batten Bars and Stress Distribution Plates³*
- TAS 114, Appendix H, *Test Procedures for Small Scale QC and Physical Properties of Approved Roof Systems Assemblies*
- TAS 123, *Standard Requirements of Tile Adhesive Used to Repair or Supplement Tile Attachment*
- TAS 135, *Standard Requirements for Fiberglass Reinforced Tile, Shingles or Panels and Fiber Cement Shingles, Shakes or Panels*
- TT-C-555B, *Federal Specification, Coating, Textured (For Interior and Exterior Masonry Surfaces)*
- UL 94, *Flammability*
- UL 972, *Burglary Resisting Glazing Material*
- UL 746, *Ball Impact*
- UL 2218, *Impact Resistance of Prepared Roof Covering Materials*
- UL 305, *Panic Hardware*

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Engineer Services

05/2009

Joseph A. Reed, P.E., Director

Connie Demmy, Administrative Assistant

- Development of Test Programs and Pre-Test Engineering and Evaluation
- Fastener Installation Design and Installation Drawings for Windows and Doors
- Glazing Analyses per ASTM E1300, *Standard Practice for Determining Load Resistance of Glass in Buildings*
- Door and Window Comparative Analysis including Component Comparison/Substitution
- Project Specific Installation Analyses and Shop Drawing Approval
- AAMA 450 Mullion Analysis, Testing and Design in conformance with Building Code Requirements
- AAMA 2502 Generic Installation Analyses for Approval Programs
- ASCE 7 Design Wind Pressure Analyses on Building Components in conformance with Building Code Requirements
- Installation Analyses for Blast-Resistance
- Product Evaluation for Blast-Resistance
- General Civil/Structural Analyses and Calculations

Field Testing for Air and Water

05/2009

Patty Gordon, Director

Steve Shank, Customer Service

Tracey Andrews and Bessie Hardesty, Administrative Assistant

- AAMA 501, *Methods of Test for Exterior Walls*³
- AAMA 501.1, *Test Method for Metal Curtain Walls for Penetration Using Dynamic Pressure*^{2, 3}
- AAMA 501.2, *Field Check of Curtain Walls for Water Leakage*²
- AAMA 501.3, *Field Check of Water Penetration Through Installed Exterior Windows, Curtain Walls, and Doors by Uniform Air Pressure Difference*³
- AAMA 502, *Field Testing of Windows and Doors*
- AAMA 503, *Field Testing of Storefronts, Curtain Walls*
- AAMA 511, *Guideline for Forensic Water Penetration Testing of Fenestration Products*
- ASTM E 330, *Structural Performance (static loads)*^{1, 2, 3}
- ASTM E 488, *Strength of Anchors in Concrete and Masonry Elements*³
- ASTM E 514, *Water Penetration and Leakage Through Masonry*
- ASTM E 783, *Field Measurement of Air Leakage*^{1, 2, 3}
- ASTM E 1105, *Field Determination of Water Penetration*^{1, 2, 3}
- ASTM D 4541, *Pull-Off Strength of Coatings Using Portable Adhesion Testers*

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- ASTM E 2359-06, *Field Pull Testing of an In-Place Exterior Insulation and Finish System Clad Wall Assembly*
- ASTM C 1401, *Standard Guide for Structural Sealant Glazing*

Forensic Services

05/2009

John Runkle, P.E., Director

Wendy Gohn, Administrative Assistant

- AAMA 501.2, *Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems*
- AAMA 502, *Field Testing of Windows and Door*
- AAMA 503, *Field Testing of Storefronts, Curtain Walls*
- ASTM E 783, *Field Measurement of Air Leakage*^{1, 2, 3}
- ASTM E 1105, *Field Determination of Water Penetration*^{1, 2, 3}
- ASTM E 2128, *Standard Guide For Evaluating Water Leakage of Building*
- AAMA 511, *Guideline for Forensic Water Penetration Testing of Fenestration Products*
- IBC, *Water penetration testing in accordance with Section 1403 of the International Building Code*
- ASTM C 1193, *Appendix X1 – Method A, Field Applied Sealant Joint Hand Pull Tab*
- ASTM C 1521, *Evaluating Adhesion of Installed Weatherproofing Sealant Joints*
- ASTM D 4541, *Pull-Off Strength of Coatings Using Portable Adhesion Testers*
- ASTM E514 – 08, *Standard Test Method for Water Penetration and Leakage Through Masonry*
- ASTM D 5957, *Flood Testing Horizontal Waterproofing Installations*
- ASTM E 1186, *Air Leakage Site Detection in Building Envelopes and Air Barrier Systems*
- ASTM C 1153, *Location of Wet Insulation in Roofing Systems Using Infrared Imaging*
- ASTM C 1060, *Thermographic Inspection of Insulation Installations in Envelope Cavities of Frame Buildings*
- ASTM E 779, *Standard Test Method for Determining Air Leakage Rate by Fan Pressurization*
- FM approved roof uplift tests
- AAMA 1503, *Field Test for Thermal Transmittance and Condensation Resistance of Windows, Doors, and Glazed Wall Sections*^{1, 2}
- AAMA 501.5, *Test Method for Thermal Cycling of Exterior Walls*
- IGCC, *Standard Test Method for Determination of the Gas Level in Sealed Insulating Glass Units Using an Oxygen Analyzer or Spark Emission Spectrography (Gas Glass)*
- ASTM E 546, *Frost Points of Sealed Insulating Glass Units*^{1, 2, 3}

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- ASTM E 2190, *Standard Specification for Insulating Glass Unit Performance and Evaluation*¹
- Roller Wave
- ASTM C 1036, *Standard Specification for Flat Glass*
- GANA TD 100, *Standard Test Method for In Plant Measurement of Roll Wave in Heat-Treated Architectural Glass*
- ASTM C 1279, *Standard Test Method for Non-Destructive Photoelastic Measurement of Edge and Surface Stresses in Annealed, Heat-Strengthened, and Fully Tempered Flat Glass*
- IG MA PR-GGBPWG-05, Test Method for Spark Emission Spectrography
- Glass Failure Analysis
- New Construction QA/QC
- Waterproofing Consulting
- Forensic Investigations
- Condition Surveys
- Building Enclosure Commissioning

Information Technology

05/2009

Aaron Wetherhold, Director

- Systems Engineering Consulting, *Engineering of computer control sub-systems for custom equipment*
- Systems Development Consulting, *Development of Intranet and Internet database applications*
- Systems Administration Consulting, *Technical assistance with creating and maintaining small to medium sized Local Area and Wide Area Networks*

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Scott T. Swaltek, P.E., Senior Project Engineer

Christian Lapadat, Senior Technician

Alicia Brubaker, Administrative Assistant

Joseph Reed, P.E., Director

- ANSI/SAE Z26.1, *Safety Glazing Materials for Glazing Motor Vehicles and Motor Vehicle Equipment*
- ANSI Z97.1, *American National Standard for Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test*^{1, 2, 3}
- ASTM C 1279, *Standard Test Method for Non-Destructive Photoelastic Measurement of Edge and Surface Stresses in Annealed, Heat-Strengthened and Fully Tempered Flat Glass*
- ASTM C 1651, *Standard Test Method for Measurement or Roll Wave Optical Distortion in Heat-Treated Flat Glass*
- ASTM C 1652, *Standard Test Method for Measuring Optical Distortion in Flat Glass Products using Digital Photography of Grids*
- ASTM E 546, *Frost Points of Sealed Insulating Glass Units*^{1, 2, 3}
- ASTM E 576, *Frost Point of Sealed Insulating Glass Units in the Vertical Position*
- ASTM E 773, *Seal Durability of Sealed Insulating Glass Units*^{1, 2, 3}
- ASTM E 774, *Sealed Insulating Glass Units*¹
- ASTM E 1887, *Standard Test Method for Fog Determination*
- ASTM E 2188, *Standard Test Method for Insulating Glass Unit Performance*¹
- ASTM E 2189, *Standard Test Method for Testing Resistance to Fogging in Insulating Glass Units*¹
- ASTM E 2190, *Standard Specification for Insulating Glass Unit Performance and Evaluation*¹
- CAN/CGSB 12.1 – M90, *Tempered or Laminated Safety Glass*¹
- CAN/CGSB 12.11, *Wired Safety Glass*
- CPSC 16 CFR Part 1201, *Safety Standard for Architectural Glazing Materials*^{1, 2}
- EN 12600, *Pendulum Test – Impact Test Method and Classification for Flat Glass*¹
- IGMA Pr-GGBPWG, *Standard Test Method for Determination of the Gas Level in Sealed Insulating Glass Units Using an Oxygen Analyzer or Spark Emission Spectrography (Gas Glass)*
- UL 972, *Standard for Safety for Burglary Resisting Glazing Material*
- Glass and Glazing, Chapter 24, International Building Code (IBC), Uniform Building Code (UBC)¹, BOCA National Building Code
- High Altitude Insulating Glass Testing
- Pummel Testing of Laminated Glass
- Custom Testing of Insulating Glass or Safety Glazing

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Michael D. Stremmel, P.E., Senior Project Engineer

Tim McGill, Project Engineer

Jeramie Grabosch, Laboratory Supervisor

Emily Riley, Technician/Customer Service

Vicki McElwain, Administrative Assistant

- AAMA/NWWDA 101/I.S.2, *Voluntary Specifications for Windows, Doors*¹
- 101/I.S. 2/NAFS-02, *Voluntary Performance Specification for Windows, Skylights and Glass Doors*¹
- AAMA/WDMA/CSA 101/I.S. 2/A440-05, *Standard/Specification for Windows, Doors, and Unit Skylights*¹
- AAMA/WDMA/CSA 101/I.S. 2/A440-08, *NAFS – North American Fenestration Standard/Specification for Windows, Doors, and Unit Skylights*
- AAMA 450, *Voluntary Performance Rating Method for Mullled Fenestration Assemblies*
- AAMA 506, *Hurricane Impact and Cycling-Windows and Doors*
- AAMA 508, *Voluntary Test Method and Specification for Pressure Equalized Rain Screen Wall Cladding Systems*
- AAMA 910, *Life Cycle Testing*
- AAMA 920, *Specification for Operating Cycle Performance of Side-Hinged Exterior Door Systems*²
- AAMA 1302.5, *Forced Entry Resistant Alum. Prime Windows*²
- AAMA 1303.5, *Forced Entry Resistant Aluminum SGD*²
- AAMA/WDMA 1600, *Voluntary Specification for Skylights*
- AAMA 1701.2, *Primary Windows & SGD (Manufactured Housing)*
- AAMA 1702.2, *Exterior Passage Door (Manufactured Housing)*
- AAMA 1704, *Egress Window Systems (Manufactured Housing)*
- FM 4471³
- ANSI/AAMA 1002.10, *Voluntary Spec. for Alum. Sliding Storm Products*
- ANSI/AAMA 1102.7, *Voluntary Specification for Aluminum Storm Doors*
- ASTM D 5206, *Windload Resistance of Vinyl Siding*^{1, 3}
- ASTM E 283, *Rate of Air Leakage*^{1, 2, 3}
- ASTM E 330, *Structural Performance (static loads)*^{1, 2, 3}
- ASTM E 331, *Water Penetration (uniform static loads)*^{1, 2, 3}
- ASTM E 514, *Water Penetration and Leakage Through Masonry*
- ASTM E 547, *Water Penetration (cyclic static loads)*^{1, 2}
- ASTM E 987, *Deglazing Force of Fenestration Products*^{2, 3}
- ASTM E 1592, *Structural Performance (Roof and Siding)*³
- ASTM E 1646, *Static Water (Roof Specific)*

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- ASTM E 1677, *Standard Specification for Air Retarders*
- ASTM E 1680, *Air Infiltration (Roof Specific)*
- ASTM E 2068, *Standard Test Method for Determination of Operating Force of Sliding Windows and Doors*²
- ASTM F 2090, *Standard Specification for Window Fall Protection Devices with Emergency Escape (Egress) Release Mechanisms*
- ASTM E 2357, *Standard Test Method for Determining Air Leakage of Air Barrier Assemblies*
- ASTM F 588 X2, *Glazing Impact*
- ASTM F 588, *Resistance to Forced Entry - Windows*^{1, 2}
- ASTM F 842, *Measurement of Forced Entry Resistance – SGD*^{1, 2}
- ASTM F 1233, *Standard Test Method for Security Glazing Materials and Systems – Forced Entry Resistance*²
- ASTM E 1886, *Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials*^{1, 2, 3}
- ASTM E 1996, *Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes*¹
- CAN/CGSB 82.1, *Sliding Doors*¹
- CAN/CSA A-440, *Windows*¹
- CAWM 300, *Forced Entry Resistance for Sliding Glass Doors*
- CAWM 301, *Forced Entry Resistance Tests for Windows*
- ANSI/DASMA 108, *Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance Under Uniform Static Air Pressure Difference*¹
- ICBO AC17, *Acceptance Criteria for Sloped Glazing (Skylights)*
- NFRC 400, *Air Infiltration*¹
- TAS 100, *Wind & Wind Driven Rain (Roof Systems)*³
- TAS 100(A), *Wind & Wind Driven Rain (Soffit Strips, Ridge Vents, and Louvers)*³
- TAS 114, *Roof Ponding Test*³
- TAS 125, *Standard Requirements for Metal Roofs*³
- TAS 201, *Impact Test Procedures*^{1, 3}
- TAS 202, *Criteria for Testing Impact & Non-Impact Resistant*^{1, 3}
- TAS 203, *Criteria for Cyclic Wind Pressure Loading*^{1, 3}
- UL 580, *Uplift Resistance of Roof Assemblies*³
- UL 752, *Standard for Safety for Bullet-Resisting Equipment*
- UL 1897, *Uplift Test for Roof Covering Systems*³
- Witness and Validation at Approved Off Site Test Facilities

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Project / Curtain Wall Testing

05/2009

Joseph Wise, Director

Jennifer DeVos, Administrative Assistant

- AAMA 501, *Methods of Test for Exterior Walls*³
- AAMA 501.1, *Water Penetration Using Dynamic Pressure*^{2, 3}
- AAMA 501.4, *Evaluating Walls for Seismic and Interstory Drifts*²
- AAMA 501.5, *Thermal Cycling of Exterior Walls*²
- AAMA 501.6, *Evaluating Walls for Seismic Drift Causing Glass Fallout*^{1, 2}
- AAMA/NWWDA 101/I.S. 2, *Primary and Secondary Requirements*
- ASTM E 283, *Rate of Air Leakage*^{1, 2, 3}
- ASTM E 330, *Structural Performance (Static Loads)*^{1, 2, 3}
- ASTM E 331, *Water Penetration (Uniform Static Loads)*^{1, 2, 3}

Structural Systems Testing and Evaluation

05/2009

Travis Hoover, Project Engineer

Justin Mann, SST Laboratory Supervisor

Alicia Brubaker, Administrative Assistant

- ICC-ES AC04, *Acceptance Criteria for Sandwich Panels*¹
- ICC-ES AC13, *Acceptance Criteria for Joint Hangers and Similar Devices*
- ICC-ES AC15, *Acceptance Criteria for Concrete Floor, Roof and Wall Systems and Masonry Wall Systems*
- ICC-ES AC46, *Cold-formed Steel Framing Members*
- ICC-ES AC86, *Cold-formed Steel Framing Members-Interior Nonload-bearing Wall Assemblies*
- ICC-ES AC109, *Acceptance Criteria for Thermoplastic Composite Lumber Products*
- ICC-ES AC174, *Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails)*¹
- ICC-ES AC265, *Acceptance Criteria for Fiber-Reinforced Polymer (FRP) Composite Columns Used as Axial Load-Bearing and Nonload-Bearing Architectural and Decorative Columns*¹
- ICC-ES AC269, *Acceptance Criteria for Racking Shear Evaluation of Proprietary Sheathing Materials Used as Braced Wall Panels*¹
- ICC-ES AC273, *Acceptance Criteria for Handrails and Guards*¹
- ICC-ES AC295, *Acceptance Criteria for Laminated Fibrous Board Sheathing Material*¹

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- ICC-ES AC382, *Acceptance Criteria for Laminated Fibrous Board Sheathing Material Used as a Water-Resistive Barrier*¹
- ICC-ES AC227, *Rigid Cellular PVC Nonload-bearing Exterior Trim*¹
- CCMC Technical Guide for PVC Guards System
- CCMC Technical Guide for Cellulosic/Polymer Composite Exterior Decking
- CCMC Technical Guide for Guard System Made of Cellulosic/Polymer Composite Extrusions
- ASTM A 370, *Standard Test Methods and Definitions for Mechanical Testing of Steel Products*
- ASTM D 635, *Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position*
- ASTM D 638, *Standard Test Methods for Tensile Properties of Plastics*
- ASTM D 696, *Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer*¹
- ASTM D 1929, *Standard Test Method for Determining Ignition Temperature of Plastics*
- ASTM D 2394, *Standard Test Methods for Simulated Service Testing of Wood and Wood Based Finish Flooring*
- ASTM D 2843, *Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics*
- ASTM D 4495, *Standard Test Method for Impact Resistance of Poly (Vinyl Chloride) (PVC) Rigid Profiles by Means of Falling Weight*
- ASTM D 6662, *Standard Specification for Polyolefin-Based Plastic Lumber Decking Boards*¹
- ASTM D 7032, *Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails)*¹
- ASTM E 8, *Standard Test Methods for Tension Testing of Metallic Materials*¹
- ASTM E 72, *Standard Test Methods of Conducting Strength Test of Panels for Buildings*^{1, 3}
- ASTM E 96, *Standard Test Methods for Water Vapor Transmission of Materials*¹
- ASTM E 455, *Standard Test Method for Static Load Testing of Framed Floor or Roof Diaphragm Constructions for Buildings*
- ASTM E 529, *Standard Guide for Conducting Flexural Tests on Beams and Girders for Building Construction*
- ASTM E 564, *Standard Practice for Static Load Test for Shear Resistance of Framed Walls for Buildings*¹
- ASTM E 935, *Standard Test Method for Performance of Metal Railing Systems and Rails for Buildings*
- ASTM E 985, *Standard Specification for Permanent Metal Railing Systems and Rails for Buildings*
- ASTM F 1679, *Standard Test Method for Using a Variable Incidence Tribometer (VIT)*¹

¹ IAS Accredited Method

² AAMA Accredited Method

³ Miami-Dade County Accredited Method

- ASTM E 2126, *Standard Test Methods for Cyclic (Reversed) Load Test for Shear Resistance of Walls and Buildings*¹
- ASTM F 2408, *Standard Specification for Ornamental Fences Employing Galvanized Steel Tubular Pickets*
- SEAOSC, *Standard Method of Cyclic (Reversed) Load Test for Shear Resistance of Framed Walls for Buildings*
- SPRI ES-1, *Architectural Edge Metal Testing*

Evaluation Agencies and Building Codes:

- ICC-ES Evaluation Services
- BOCA National Building Code
- SBC – Standard Building Code / SBCCI
- UBC – Uniform Building Code / ICBO
- IBC – International Building Code (ICC)
- IRC – International Residential Code (ICC)
- CCMC Canadian Construction Materials Centre
- Miami-Dade County Product Control

Support Services

05/2009

Richard S. Biscoe, Vice President

Laurie Wymer, Executive Assistant

- Equipment Design and Construction:
 - A complete “static pressure” test system capable of reading an air volume of 0 to 100 scfm and generating an air pressure differential up to 150 PSF (The system also has the ability to “cycle” the air pressure differential.)
 - A portable Air Test Unit capable of reading an air volume of 0 to 62 scfm
 - A portable, KD, water spraying system covering an area up to 10 foot by 10 foot
 - A water spraying system capable of applying a calibrated water spray
 - A dynamic wind generator
 - An air pressure “cannon” utilized to meet Metro Dade County specifications
 - Various fixtures used for tensile and/or compression tests
- Support for Test Completion:
 - Machine shop to assist clients with modifications required to complete a project
 - Tool crib stocked with sealant, screws, hand tools and various other items

¹ IAS Accredited Method

² AAMA Accredited Method

³ Miami-Dade County Accredited Method

Thermal Simulations and Physical Testing

05/2009

Michael Thoman, P.E., Director

Shon Einsig, Senior Technician

Kristen Livelsberger, Senior Simulation Technician

Kirby May, Administrative Assistant

- AAMA 507, *Standard Practice for Determining the Thermal Performance Characteristics of Fenestration Systems in Commercial Buildings*¹
- AAMA 1502.7, *Voluntary Test Method for Condensation Resistance of Windows, Doors, and Glazed Wall Sections*
- AAMA 1503, *Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections*^{1, 2}
- AAMA 1503.1, *Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed wall Sections*³
- AAMA 1505, *Voluntary Test Methods for Thermal Performance of fenestration Products with Multiple Glazing Options*
- ASTM C518, *Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus*¹
- ASTM C976, *Thermal Performance*
- ASTM C1199, *Standard Test Method for Measuring the Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods*¹
- ASTM C1363 (formerly C236), *Standard Test Method for the Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus*¹
- ASTM C1371, *Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers*
- CAN/CGSB 82.1, *Condensation Resistance*
- CAN/CSA 11.12, *Condensation Resistance*
- CAN/CSA A440, *Thermal Performance*¹
- DASMA 105, *Test Method for Thermal Transmittance and Air Infiltration of Garage Doors*
- FRAME 4.0, *Thermal Performance Simulations*
- FRAMEplus 5.0, *Thermal Performance Simulations*
- NFRC 100, *Procedure for Determining Thermal Products U-Factors*¹
- NFRC 101, *Procedure for Determining Thermo-Physical Properties of Materials for Use in NFRC-Approved Software Programs*¹
- NFRC 102, *Test Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems*¹
- NFRC 200, *Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Light Transmittance at Normal Incidence*¹
- NFRC 201,

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² AAMA Accredited Method

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- NFRC 400,¹
- NFRC 500, *Procedure for Determining Fenestration Product Condensation Resistance Values*¹
- THERM 2.1a, *A PC Program for Analyzing Two-Dimensional Heat Transfer Through Building Products*
- THERM 5.2, *A PC Program for Analyzing Two-Dimensional Heat Transfer Through Building Products*
- VISION 4.0, *CANMET Computer Program to Evaluate Thermal Performance of Innovative Glazing Systems*
- WES 1584, *Test Procedure for Thermal Transmittance of Window Treatments and Moveable Insulations*
- WINDOW 4.1, *A PC Program for Analyzing Window Thermal Performance in Accordance with Standard NFRC Procedures*
- WINDOW 5.2, *A PC Program for Analyzing Thermal Performance of Fenestration Product*

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² AAMA Accredited Method

³ Miami-Dade County Accredited Method