



ICC
EVALUATION
SERVICE

www.icc-es.org



ICC
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SERVICE

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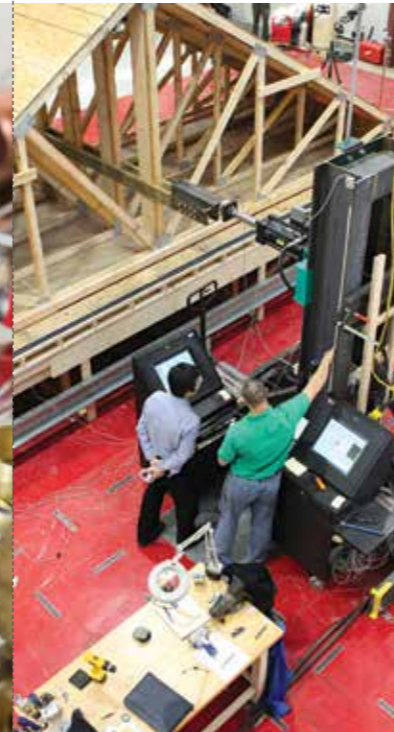
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Your Premier One-stop Testing, Listing and
Evaluation Service for:

Building and Plumbing, Mechanical,
Fuel Gas, Private Sewage Disposal
and Solar Thermal Products



A subsidiary of



ICC Evaluation Service, LLC

Experts in Building and Plumbing Product Evaluation/Certification

With over 80 years of experience and thousands of reports, ICC Evaluation Service (ICC-ES) is the industry leader in performing technical evaluations of building products, materials and systems for code compliance. Due to its diligence and unparalleled engineering experience, ICC-ES is the most widely accepted evaluation agency in the nation.

Known for its expertise in the code compliance and development of Acceptance Criteria for new innovative products, ICC-ES is a subsidiary of the International Code Council and is accredited by the American Association for Laboratory Accreditation (A2LA) and the American National Standards Institute (ANSI) to the requirements of ISO/IEC 17065, Standards Council of Canada (SCC) and EMA for Mexico.

Reports and listings issued by ICC-ES represent the highest quality reports providing manufacturers, building professionals and the industry with valuable tools to ensure safety on the construction site while allowing innovation to thrive.

ICC-ES issues the following reports and listings under the following programs:

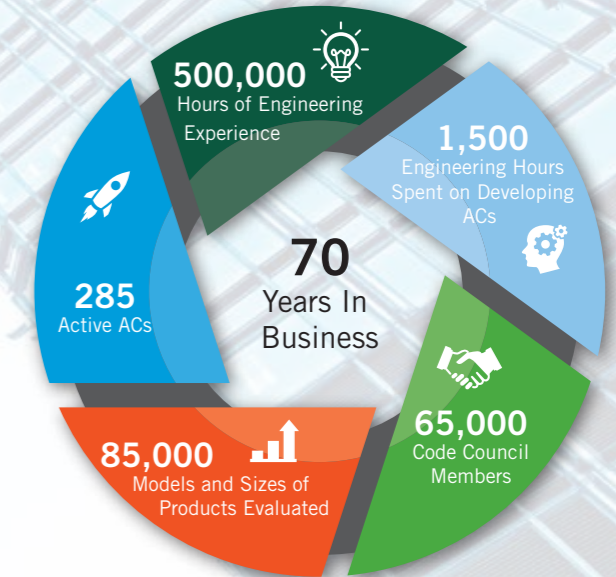
- Evaluation Reports Program (ESRs)
- Plumbing, Mechanical and Fuel Gas Listing Program (PMG)
- Building Products Listing Program (ESL)
- Environmental Programs (EP)
- Solar Rating & Certification Corporation (SRCC)
- Marketing Claim Verification Program (MCV)

Look for the ICC-ES Marks of Conformity



www.icc-es.org

ICC-ES By The Numbers



We can proudly say ICC-ES:

41 Countries
Has issued reports and listings to 41 countries

30,000 Hours of Annual Inspections
Conducts 30,000 hours of inspections (annually) in 1,274 locations across 41 countries

250 Trillion Product Approvals
Has received approximately 250 trillion building and plumbing product approvals from 40,000 U.S jurisdictions in the last 70 years

5,000+ Standards
Evaluates 85,000+ products to over 5,000+ codes and standards



ICC-ES Evaluation Reports Program (ESR)

www.icc-es.org/evaluation_reports

An ICC-ES Evaluation Report is a report on a specific building product and represents an independent evaluation of how the product meets performance and prescriptive provisions in the International Codes® (I-Codes®).

What's included in an ICC-ES Evaluation Report?

- Information on the product report holder and a description of the building product and its intended uses
- The code(s) that were used to evaluate the product, such as the International Building Code® (IBC®), International Residential Code® (IRC®), International Energy Conservation Code® (IECC®), Los Angeles Building Code (LABC), Los Angeles Residential Code (LARC), Florida supplements, California Building Code and California Residential Code Supplements, among others
- Installation instructions that identify requirements to help the inspector ensure that the product is installed properly
- List of data that were used in evaluating the product

ICC-ES Can Test and Certify

- Fasteners
- Concrete Anchors
- Manufactured Wood
- Plastic Lumber
- Doors/Windows
- Air, Water & Vapor Barriers
- Cladding
- Wall Coverings
- Roofing Materials
- Wall Systems
- Flooring/Deck Systems
- Plumbing Products

ICC-ES Acceptance Criteria (AC)

www.icc-es.org/criteria

When a new or innovative product not adequately addressed by the code is submitted for evaluation, an AC is developed by the ICC-ES technical staff in consultation with the report applicant and with input from interested parties. New criteria and revisions to criteria are approved by the Evaluation Committee (made up entirely of code officials) during open public hearings or—in selected instances—through an alternate process that involves the solicitation of public comments through the ICC-ES website. The AC addresses specific technical data, test standards and manufacturing quality-control items that are needed to justify approval of a product. The criteria are developed considering the broad concepts of life safety and preservation of property, along with code requirements for similar product uses.



Simpson Strong-Tie supports the invaluable work that ICC-ES provides with their robust product evaluation program, along with their continuing technological growth and collaboration efforts. Similar to code development, their evaluation process includes implementation of publicly developed acceptance criteria reviewed and approved by code enforcement officials. This practice inspires confidence, fosters consistency, and helps ensure that alternative products meet code intent, keeping construction costs reasonable and better protecting the public while making innovative alternative products available to the industry.

Jeff Ellis, P.E., S.E., SECB
Director of Codes & Compliance
Simpson Strong-Tie Company Inc.



Working with ICC-ES staff on the improvements to our ESRs was a real pleasure. Their technical expertise is very high, and the evaluation process to implement these important changes was relatively simple and very efficient.

Mark Ziegler, P.E.
Technical Director
DeWALT



Plumbing, Mechanical and Fuel Gas Listing Program (PMG)

www.icc-es.org/pmg-listing-program

The ICC-ES PMG Listing Program is accredited by both ANSI and the Standards Council of Canada (SCC) and is approved by the City of Los Angeles. It certifies products in the areas of plumbing, mechanical and fuel gas. An ICC-ES PMG Listing is a document issued for a product that has demonstrated compliance with applicable standards and has also demonstrated compliance with applicable international and uniform codes.

The ICC-ES PMG Listing Program assists manufacturers with the following:

- Listings for U.S., Mexican and Canadian markets
- Free certification to EPA's WaterSense specifications
- Free certification to S.3874 (federal law for reduction of lead in drinking water), AB 1953 (low-lead plumbing law) as well as NSF/ANSI 372
- Widest acceptance in North America
- No fees for additional company listings
- Quick turnaround times, significant savings compared with competing listing services, no separate file for NSF 61 and no warehouse inspections, among other benefits

Codes and Standards covered by ICC-ES PMG Listings:

- Plumbing: International Plumbing Code® (IPC®), Uniform Plumbing Code® (UPC®), International Residential Code (IRC®)
- Mechanical: International Mechanical Code® (IMC®), Uniform Mechanical Code® (UMC®), International Residential Code (IRC®)
- Gas: International Fuel Gas Code® (IFGC®)
- ASME, ASTM, ASSE, UL, ASHRAE and many other standards

ICC-ES Can List and Certify:

- Faucets
 - Bathtubs
 - Toilets & Urinals
 - Drain Products
 - Showerheads
 - Sink Products
 - Ceramic Fixtures
 - Pipe & Fittings
 - Resins and Linear
- and many more!*

U.S. EPA's WaterSense®

The WaterSense® Program protects water supplies by promoting water efficiency and enhancing the market for water-efficient products and practices. ICC-ES PMG offers listings for water-efficient urinals, lavatory faucets, high-efficiency toilets, shower heads, flushometer-valve water closets and landscape irrigation controllers, in accordance with EPA specifications.

ICC-ES PMG works with manufacturers interested in receiving both the WaterSense® label and the ICC-ES PMG Listing Mark simultaneously. This program provides a one-stop shop for manufacturers to obtain a code-conformance listing, a WaterSense® listing, fast turnaround time and an opportunity for broad market acceptance.



Falcon Stainless is pleased and proud to continue its long-standing relationship with ICC-ES PMG. Although we know there are choices in product certification agencies, when it comes to customer service and fast turnaround, we believe ICC-ES PMG is the right choice.

Melanie Pender
President & Creative Director
Falcon Stainless, Inc.



ICC-ES Building Products Listing Program (ESL)

www.icc-es.org/listing

The ICC-ES® Listing Program offers a fast and cost-effective way for manufacturers of building products covered by existing consensus standards to show their product compliance with applicable standard(s) referenced in the building codes and other applicable codes.

The ICC-ES Listing Program is open to manufacturers searching for a new listing for their product from the most recognized brand in the industry, as well as those who wish to transfer from their current certifier. ICC-ES can list manufacturers' products under any existing consensus standard.

The ICC-ES Listing can be completed within eight weeks from the date of application, along with applicable fees and successful review of the submitted data.

For code-enforcement professionals, the ICC-ES listing program provides peace of mind when approving products for installations.

Other benefits of the ICC-ES listing program are:

- Accelerated time to market due to the efficient ICC-ES listing process.
- The high quality of the listing reports, which manufacturers and code officials alike have always appreciated from ICC-ES.

Compared to an ICC-ES evaluation report (ESR), the ICC-ES listing covers specific products, which do have consensus standards. Moreover, the program covers only specific aspects of the product as outlined in the standard and specific related code sections.

ICC-ES Can List Your Products to the Following Standards:

- AAMA/WDMA/CSA 101/I.S.2/A440-11 - (Window/Doors)
- ASTM E84 / UL 723 - (Flame Spread Index and Smoke Developed Index Listings)
- ASTM E96 / ASTM D226 - (Roofing Papers, Water Vapor Transmission)
- ASTM E90 / ASTM E492 - (Sound Transmission)
- ASTM E283 / ASTM E2178 / ASTM E2357 - (Air Barriers)
- ASTM E136 - (Non Combustibility Listing)
- ASTM E119 / UL 263 - (Standard for Fire Test Methods (Insulation or Ceiling Products))
- ASTM E108 - (Roof Coverings/Roof Underlayments)
- CAN/CSA A23.3-14 Annex D, ACI 355.2 and ACI 355.4 - (Post-Installed Anchor Products - Mechanical Adhesive Anchors)
- CAN/ULC-S102 - (Test for Surface Burning Characteristics of Building Materials and Assemblies)
- CAN/ULC-S101 - (Fire Endurance Tests of Building Construction and Materials)
- CAN/ULC-S107 - (Roof covering products, components and systems that have been qualified to the requirements of ASTM E108 and UL 790)

And many more!



The ICC-ES Listing Program provided the best service to us and helped drive our business to new record within 6 months. The team listened to our needs and provided solutions to ensure our listings were published on time.

Wenyi (Wayne) Zhang, P.E., M.E.
President
Ectek International Inc.



Environmental Programs

www.icc-es.org/ep

The ICC-ES Environmental Programs (formerly known as SAVE™) provide manufacturers with independent and comprehensive evaluation and/or certification that their products meet specific sustainability targets. Currently, the ICC-ES Environmental Programs offer evaluations under the ICC-ES VAR Environmental Report Program and certifications under the Environmental Product Declaration Program.

The ICC-ES VAR Environmental Reports Program (VAR) issues reports that are used by code officials, government agencies, architects, engineers, specifiers and other interested parties as an independent, third-party assessment of a product or assembly.

Environmental Product Declarations (EPD)

EPDs provide a comprehensive disclosure on a product's environmental impact based on a life-cycle assessment (LCA). Examples of the environmental impacts declared within an EPD are greenhouse gases, ozone depletion and acidification of land and water sources. LCA reports detail the environmental impacts of a product across its life stages — material extraction, production, transportation, installation, use and end of life. The EPD summarizes the LCA in an understandable format consistent with the applicable product category rules (PCR). Using this information, consumers, building design teams, specifiers and other users can then make appropriate, informed product selections.

The ICC-ES Environmental Program (formerly known as SAVE®) is one of the first, four entities to receive both eligibility and accreditation for its Type III EPD program by the American National Standards Institute (ANSI) under the requirements of ISO/IEC 17065-2012, ISO 14025-2006 and ISO 14020-2000.





**SOLAR RATING
& CERTIFICATION
CORPORATION™**

Solar Rating and Certification Corporation (ICC-SRCC™) Program

www.solar-rating.org

The ICC-SRCC Solar Heating and Cooling Program is accredited by A2LA and is approved by the City of Los Angeles. The program certifies products in the area of solar heating and cooling technologies. ICC-SRCC provides OG-100 certifications for solar collectors, OG-300 certifications for solar water heaters and OG-400 certifications for solar pool heating systems required by many incentive programs and codes throughout North America. An ICC-SRCC Listing is another offering that provides a document issued to demonstrate compliance with other applicable standards and with international and uniform codes.

The ICC-SRCC Solar Heating and Cooling Program assists manufacturers with the following:

- OG-100 certification for solar thermal collectors
- OG-300 certification for solar domestic water heating systems
- OG-400 certification for solar pool and spa water heating systems
- Certification to the EPA ENERGY STAR® Residential Water Heater program
- Low-lead certification to S.3874 (federal law for reduction of lead in drinking water), AB 1953(California low-lead plumbing law) as well as NSF/ANSI 372
- Proof of certification for Federal Investment Tax Credits for solar products
- Participation in the Global Solar Certification Network, improving access to global markets for solar products
- Widest acceptance in North America
- Quick turnaround times, significant savings compared with competing listing services and industry experts

Codes and Standards Covered by ICC-SRCC Listings:

- Plumbing: International Plumbing Code (IPC), Uniform Plumbing Code (UPC), International Residential Code (IRC)
- Mechanical: International Mechanical Code (IMC), Uniform Mechanical Code (UMC), International Residential Code (IRC)
- Building: International Building Code (IBC), International Residential Code (IRC)
- Solar: Uniform Solar Energy & Hydronics Code (USEHC) – Used by the City of Los Angeles
- CSA, IAPMO, ICC, ISO, NSF and many other standards

ICC-SRCC Can List and Certify:

- Solar Thermal Collectors (Glazed, Unglazed, Concentrating, PV-Thermal Hybrid)
- Solar Domestic Water Heating Systems
- Photovoltaic Water Heating Systems
- Solar Pool and Spa Heating Systems
- Solar Pump Stations
- Solar Storage Tanks
- And many other solar heating and cooling components!

OG-100 and OG-300 Certifications and Ratings

ICC-SRCC's OG-100 and 300 programs have been a hallmark of the solar heating and cooling industry for decades. These well-known programs not only provide proof of compliance with the ICC-SRCC standards, but they also provide trusted third-party performance ratings. These ratings are used throughout North America to set requirements for programs promoting the use of solar technologies. Cities, states, utilities and the federal government rely on ICC-SRCC's ratings to set minimum levels of performance and even the value of rebates for these products. Consumers rely on the ratings to provide information on the performance of different models and types of products in their specific climate. In recent years, ICC-SRCC has expanded its offerings to become a true one-stop shop for manufacturers to meet all of their North American compliance assessment needs.



Marketing Claim Verification (MCV) Program

www.icc-es.org/esv

In today's global economy, it is of the utmost importance to verify marketing claims in order to better educate consumers. As a result, ICC-ES has introduced a new Marketing Claim Verification Program. Through the program, manufacturers can work hand-in-hand with ICC-ES to verify their products' marketing claims through an objective and impartial process.

Marketing Claim Verification Report Product Categories

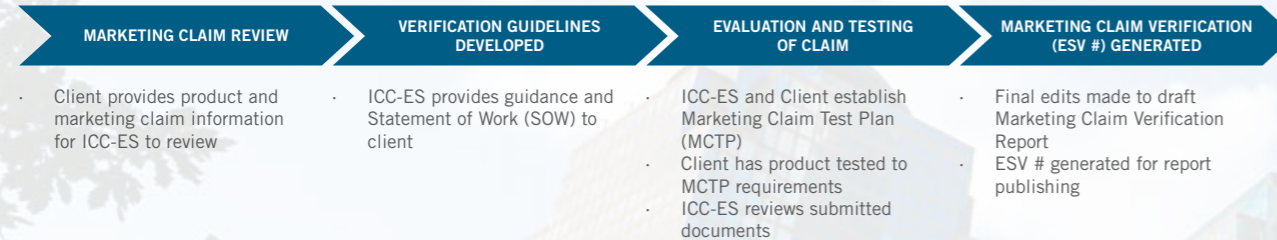
Building Materials

- Windows (e.g. R values, impact and thermal properties, STC ratings)
- Insulation (e.g. R values, STC ratings)
- Sealants and adhesives (e.g. curing times, bond strengths, temperature ranges, STC ratings)
- Anchors and fasteners (e.g. installation speed, curing times, bond strengths, temperature ranges, corrosion resistance and coating performance)
- And many more!

Plumbing, Mechanical, Fuel Gas Products

- Toilets (flows and capacities) map testing
- Kitchen and vanity cabinets (performance – KCMA A161.1, shelf & joint loading)
- Faucets (fittings & accessories meeting min/max flow rates – and beyond)
- Shower heads / Rain showers

ES Marketing Claim Verification Process:



ES Marketing Claim Verification:

Once a marketing claim has been verified by ICC-ES, a Marketing Claim Verification Report with a unique Verification Number (ESV #) will be issued and published at www.icc-es.org/esv-directory.

The ESV # can be used alongside a company's marketing claim.



Education

ICC-ES provides ongoing educational resources and services for code officials, manufacturers, engineers and the design community.

- Free webinars discussing best practices for evaluating building products and providing CEUs for continuing education
- Video clips showing the use of evaluation reports and their benefits
- Articles on new ICC-ES Acceptance Criteria and explanation on revisions to the building codes
- Presentations on ICC-ES processes

With these tools, ICC-ES keeps code officials and building professionals abreast of the latest developments and best practices. For a complete list of educational resources and to register for webinars, please visit www.icc-es.org/education.

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