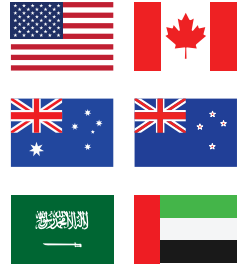




ICC
EVALUATION
SERVICE®



Certification Program for Plumbing, Mechanical and Fuel Gas Products



PMG Certification Program

The ICC-ES® PMG is the premier product certification program for North America, certifying Plumbing, Mechanical and Fuel Gas products to the requirements of Uniform, International and Canadian Codes and Standards. ICC-ES® PMG is accredited by the ANSI National Accreditation Board (ANAB), the Standards Council of Canada

(SCC) and the American Association for Laboratory Accreditation (A2LA) and can offer listings to meet all manufacturer certification needs in the United States and Canada. In addition, ICC-ES® PMG is also licensed by the U.S. Environmental Protection Agency to certify water-efficient products under the WaterSense® program.

Scope of Certification

Plumbing Products:

- Certification to the IPC®, IRC®, UPC®, NPC®
- Certification to North American performance standards such as ASME, ASSE, ASTM, AWWA, CSA, UL, NSF and many more
- NSF/ANSI/CAN 61 non-toxic certification
- Lead Free certification: NSF/ANSI/CAN 372, S.3874, and many other state requirements
- EPA WaterSense® Program: lavatory faucets, showerheads, tank-type toilets, urinals, weather-based landscape irrigation controllers, spray sprinkler body, flushometer-valve toilets
- Range of products: faucets, showers, flexible water connectors, backflow prevention devices, valves, bathtubs, sinks, kitchen and vanity cabinet, countertop, waste fittings, toilets, urinals, drains, pools, pipes and fittings and many other categories
- **Available criteria for innovative products**

Mechanical Products:

- Certification to the IMC®, IRC®, UMC®
- Certification to North American performance standards such as ASHRAE, ASME, ASTM, CSA, NFPA, UL and many more
- Range of products: HVAC systems, air ducts and fittings, radiant piping systems, chimneys and vents, water heaters, and many other categories

Fuel Gas Products:

- Certification to the IFGC®, IRC®, UPC®
- Certification to North American performance standards such as ANSI, CSA, NFPA, UL and many others
- Range of products: gas piping, chimneys and vents, gas appliances, gas water heaters, furnaces, pressure regulators, fireplaces, gas fired heaters and many other categories



Why choose ICC-ES?

1. Better Acceptance

In the area of plumbing products, ICC-ES® PMG listing reports prove product compliance with all applicable American codes: International Plumbing Code (published by ICC®, adopted in 35 states), Uniform Plumbing Code (published by IAPMO, adopted in 11 states), and International Residential Code (published by ICC®, adopted in all 50 states). ICC-ES® PMG also certifies products to the National Plumbing Code of Canada which covers all of Canada. Therefore, ICC-ES® PMG certification helps manufacturers gain entry to the U.S. and Canada.

2. Higher Quality

ICC-ES® has been conducting high-quality product evaluations for more than ninety years. Its strong group of licensed engineers in a variety of disciplines conducts stringent reviews before issuing a certification report. ICC-ES®' reputation among building officials and plumbing and mechanical inspectors is unparalleled. Over 14,000 Code Officials representing over 10,000 jurisdictions are members of the International Code Council, and they prefer the ICC-ES® marks of conformity over the marks of other certification bodies, because they have confidence in ICC-ES® quality and technical expertise.

3. More Affordable Price

The certification fees at ICC-ES® PMG are much lower than other certification bodies; savings are in the form of:

- Free Additional Company Listings
- Free WaterSense® Listings*
- Free Lead Free Listing*: NSF/ANSI/CAN 372, S.3874
- No Warehouse inspections

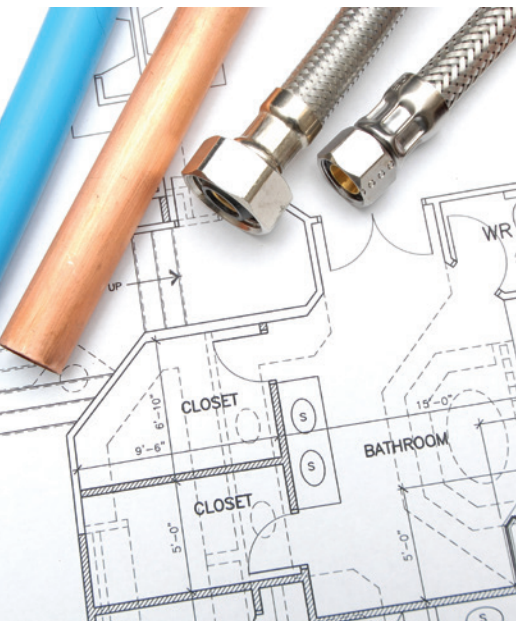
*In order for a manufacturer's product to be considered for a FREE WaterSense® or Lead Free report, the performance standard report must be maintained at ICC-ES®.

4. Better Service

ICC-ES® PMG is dedicated to providing one-stop-shop service of product compliance verification to manufacturers. Its 30 licensed professional engineers conduct stringent product reviews at an unparalleled speed and thoroughness, hence, guaranteeing a fast turnaround time for issuing a higher quality certification report. ICC-ES® engineers also respond to customer's questions and inquiries in an expedited and clear manner to help the customer solve problems they may encounter before, during and after the certification process.

5. Shorter Turnaround Time

ICC-ES® PMG works with applicants to expedite the certification process, to help introduce your product to the market quicker.



Labs and Testing

ICC-ES® provides product testing services to its clients for various types of products. The domestic testing location at ICC NTA® is accredited to ISO/IEC 17025. Manufacturers worldwide can take advantage of ICC-ES® total conformity assessment solutions, which cover product testing and certification. This comprehensive testing and

certification process significantly reduces the turnaround time required to obtain certification, allowing clients to meet anticipated product launch dates and improve their time to market.

In addition, ICC-ES® accepts test reports from other ISO/IEC 17025 accredited laboratories.

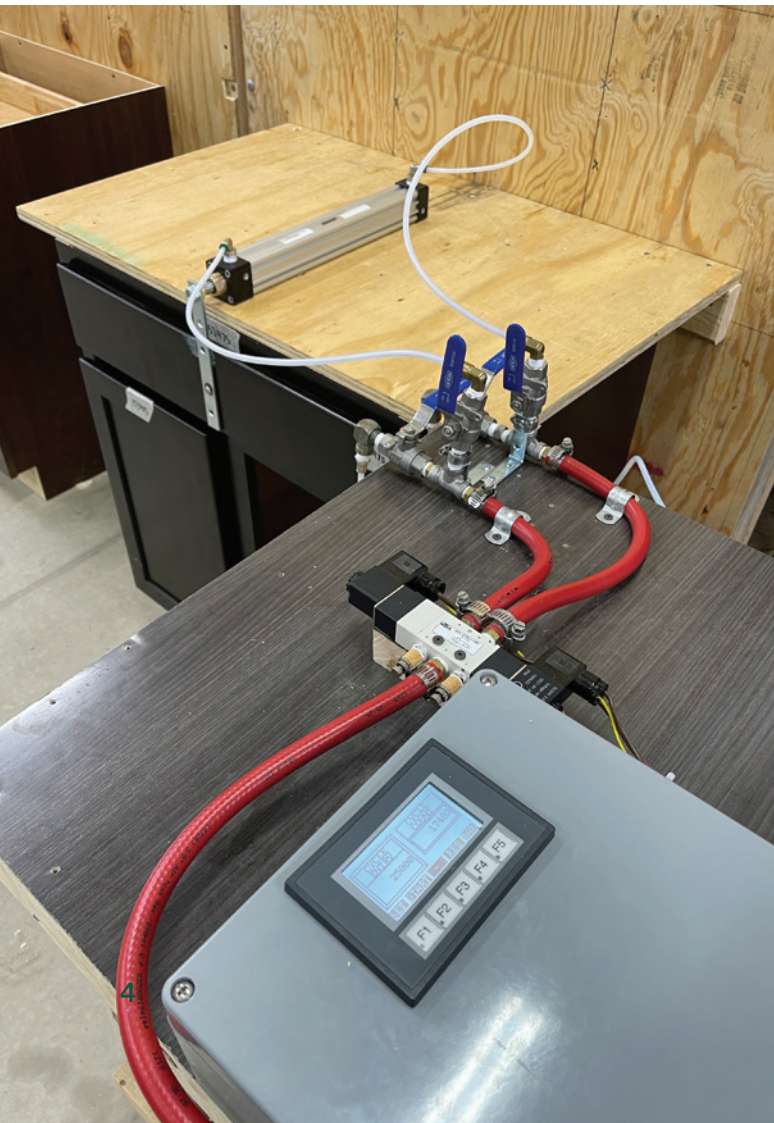
Factory Inspection

Inspections at manufacturing locations are conducted by ICC-ES® as a part of the certification process.

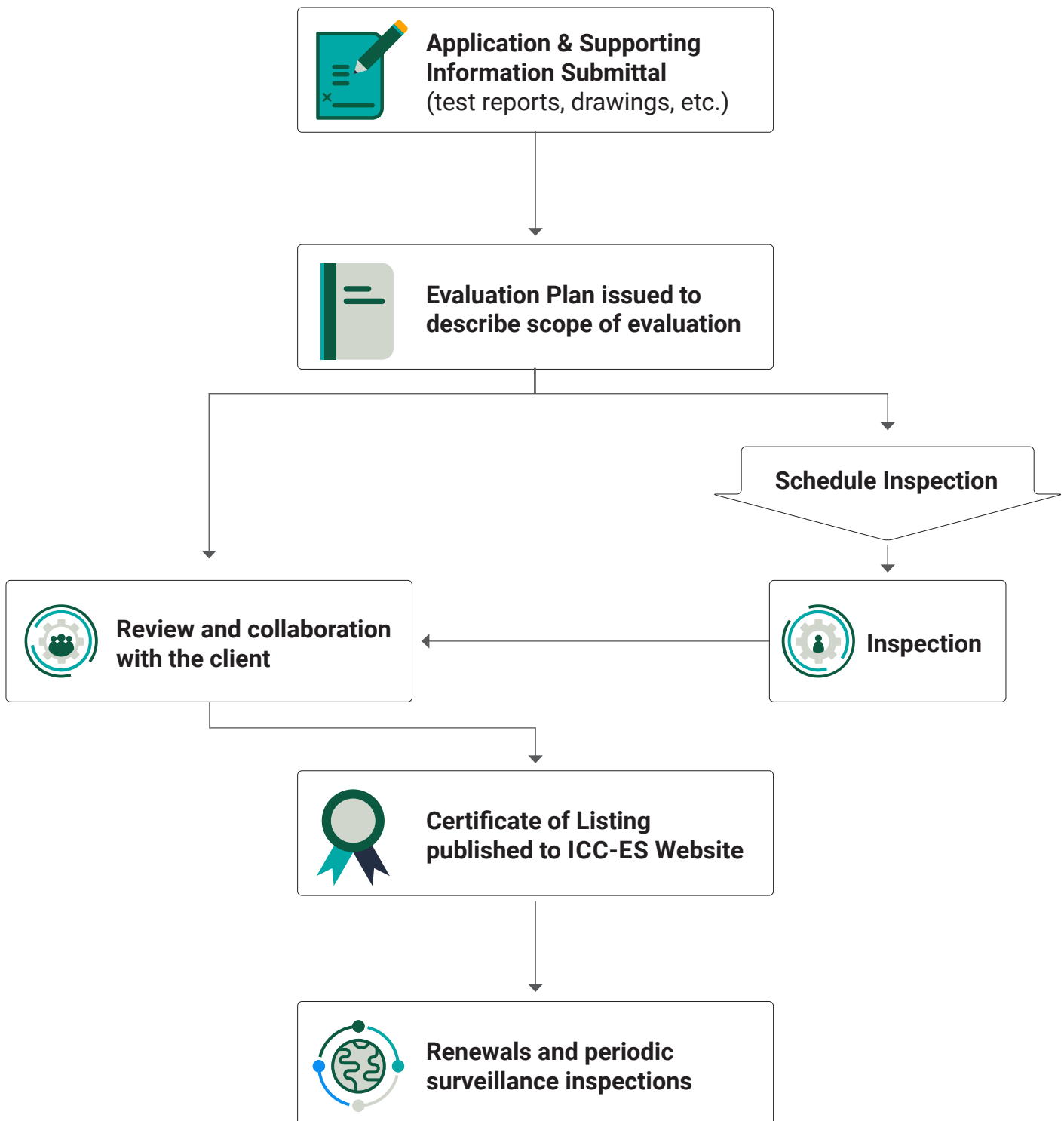
An initial qualifying inspection is required for new listing applications and for additional manufacturing facilities being added to an existing listing. The purpose of the qualifying inspection is to determine whether a quality system meeting

ICC-ES® requirements has been successfully implemented and to verify that the manufactured product is the same as the product tested for recognition.

Surveillance Inspections conducted after a listing has been issued verify that the manufactured products are the same as originally certified.



Product Certification Process Flowchart



Global Certification

In addition to the product certification to US codes and standards, ICC-ES PMG provides plumbing product certification all over the world. PMG certificate holders can benefit from building certifications for multiple geographies while maintaining the same quality service provider.

Canada

ICC-ES PMG is accredited by the Standard Council of Canada (SCC) to certify plumbing and mechanical products to the Canadian codes and standards. Manufacturers may obtain U.S. and Canadian approval under one certificate. The ICC-ES certification mark with the Canadian identifier “c” at the 8 o’clock position means that the product has been certified to meet Canadian and U.S. requirements.



Australia/New Zealand

ICC-ES is accredited by JASANZ to certify plumbing and drainage products under the WaterMark Certification scheme. This certification ensures products are fit for purpose and appropriately authorized for use in plumbing and drainage installations, under the Plumbing Code of Australia. Products covered by WaterMark are first evaluated and certified against product specifications, and then listed on the WaterMark product database administered by Australian Building Codes Board (ABCB). WaterMark certification is also recognized in New Zealand.



Saudi Arabia and the United Arab Emirates

ICC-ES is an approved conformity assessment body in Saudi Arabia and the United Arab Emirates. This approval will help manufacturers looking to expand internationally by providing product certification that can be accepted in the Middle East.



The Kingdom of Saudi Arabia has a requirement with regard to imported products, in that such products must comply with the requirement of by the Saudi Standards, Metrology and Quality Org (SASO) technical regulations and maintain SASO certification. ICC-ES is approved to conduct such certification for manufacturers to obtain shipment certificates and certificates of conformity. The approval is for several product categories under the Type 3 Scheme of the SALEEM product safety program, including metals, insulation, hydraulic links, ceramics, sanitary wares, and pipes used in water and gas networks. ICC-ES is also recognized by the Saudi Building Code National Committee (SBCNC) to conduct the evaluation for innovative building products to meet the requirement of Saudi building codes.

ICC-ES is recognized by the Civil Defense Authority of the United Arab Emirates (UAE) as an international certification body. The Civil Defense Authority oversees the UAE Fire Code to entrust ICC-ES with reviewing and verifying the test reports and issuing Certificate of Conformity (CoC) for fire safety products before they can be sold or used in the UAE. The Certificate of Compliance (CoC) program was established to assist the UAE Civil Defense Authority to expedite the review of regulated products while still maintaining high standards for quality and safety. ICC-ES is also recognized by the Dubai Municipality to evaluate innovative building products.

Marks of Conformity

The ICC-ES® PMG certification marks mean that the products have undergone rigorous testing, factory inspection and technical review. Code officials and inspectors worldwide look for these marks.



ICC-ES PMG®



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