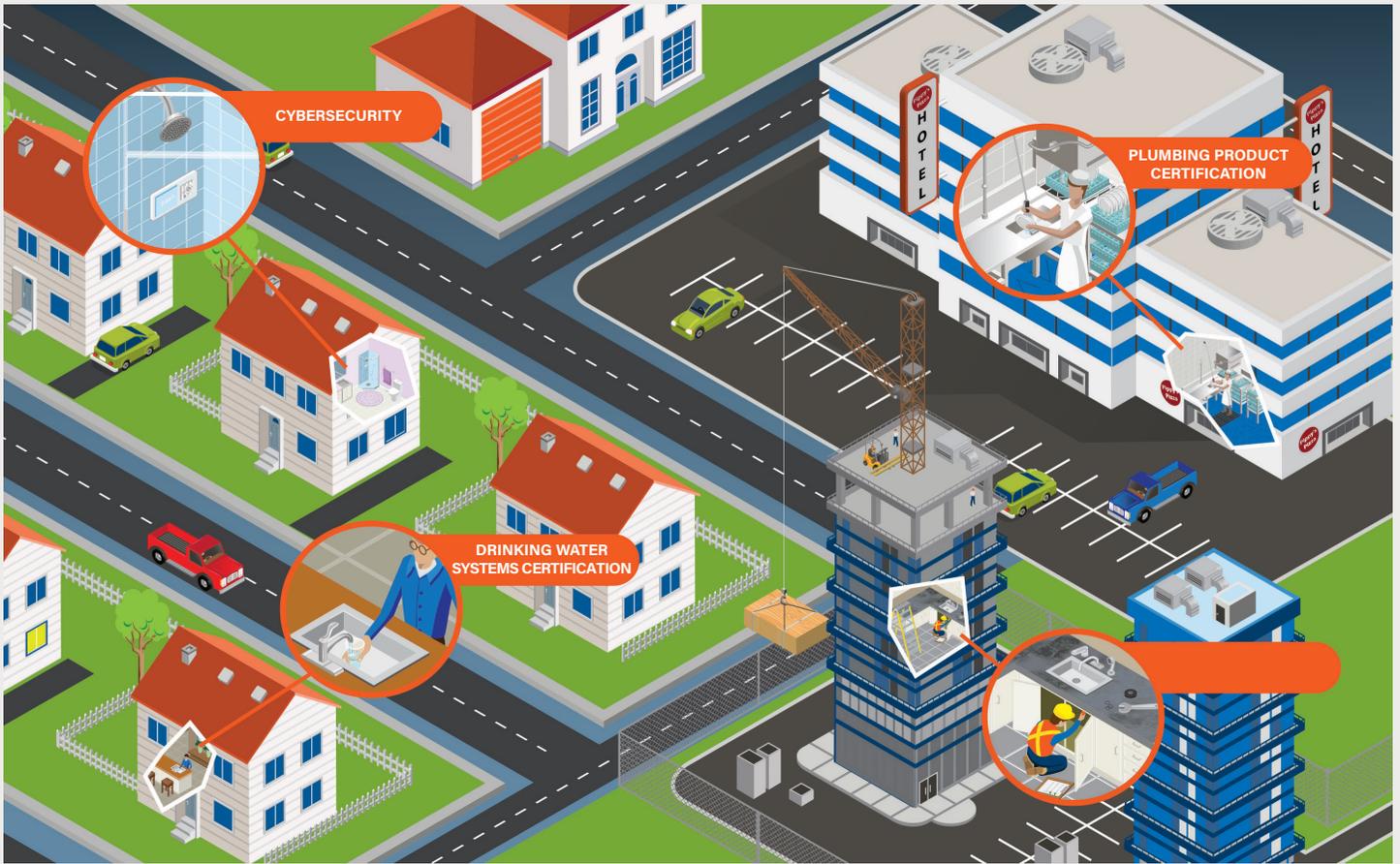




Plumbing Testing & Certification That Evolves With Your Industry

We evaluate to the standards, regulations, or directives developed by the following organizations:

**ANSI, ASME, ASTM, ASSE, CSA, NSF,
UL, US EPA WaterSense®, IAPMO,
CEC, US DOE, PDI**



Test, Inspect, and Certify Your Plumbing Products Quickly and Conveniently

Plumbing standards are constantly evolving with the potential to impact the safety, quality, and performance requirements for plumbing equipment in commercial and residential buildings. CSA Group can test, inspect, certify, and provide third-party verification

during the manufacturing and distribution of your plumbing solutions, to validate that your products meet the appropriate accredited standards and regulatory codes.



Our state-of-the-art laboratory equipment features automation technology for faster delivery and can capture a large proportion of your product catalogue, making it convenient for you to bring your goods to market.

If you are looking to grow your product offerings, our multiple-listing service features quick turnaround times, helping you get your product approved by local plumbing inspectors seamlessly for faster speed to market.

Our highly specialized service streams cover plumbing products certification, drinking water systems certification, U.S. EPA WaterSense® certification, cybersecurity and more. Let us help you meet local and global market access requirements swiftly and efficiently.



PLUMBING PRODUCTS CERTIFICATION

CSA can help you assess your products' compliance with applicable safety and performance requirements. The CSA Mark for plumbing products indicates compliance with the applicable United States and Canadian health effects and performance testing standards, which are referenced by the International Plumbing Code (IPC), the Uniform Plumbing Code (UPC) and the National Plumbing Code of Canada (NPC).

Many things can go amiss when it comes to plumbing products that rely on electronic sensors. Toilets may not flush automatically after use, hand-washing stations may not be activated correctly, and electric dryers might be too sensitive to passersby. CSA Group can help you evaluate the performance and electrical components of your plumbing products to maximize the effectiveness of their sensor technology.



LOW LEAD & WATER QUALITY

CSA Group's experienced team of water-quality specialists will evaluate and extensively test models of your plumbing products to assess its compliance to the Low Lead Content (LLC) and drinking water standards. Standard NSF/ANSI 372 outlines the lead content in water that has been deemed safe, and standard NSF/ANSI/CAN 61 tests for a wide array of other trace metals,

organic compounds, and chemicals that must be kept below acceptable limits for drinking water. Our thorough analysis will include the measurement of potentially toxic compounds including trace metals, such as lead, and organic compounds, such as nitrosamines and BPA (bisphenol A). This will not only help you obtain the CSA Group mark of approval to hasten your time to market; if your plumbing product is not found to contain harmful levels of toxic substances, it will also allow you to reassure your customers that they are not a risk of such toxicity.



While working with CSA Group's water-quality team your product can undergo testing with our electrical safety and mechanical safety specialists. For example, if you're manufacturing a drinking fountain, you can obtain water quality certification as well as electrical safety certification (i.e. making sure the refrigeration component of your fountain is working effectively) without having to leave CSA. We'll also test the lifecycle of your products to meet applicable standards for plumbing fixtures and fittings. CSA Group is a full-service testing, inspection, and certification provider, able to assess entire plumbing systems from underground water pipes to functioning faucets.





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MULTIPLE LISTING

Labelling and selling a previously certified plumbing product as your own, such as shower heads, faucets, or supply lines, can be an effective way to cut manufacturing costs and accelerate product commercialization. CSA Group have a dedicated team available to deliver our multiple-listing solution, who process over 600 products every year and we strive for fast delivery times to accommodate tight deadlines. Our knowledgeable advisors can help you get products and components white-labelled for local plumbing inspectors to see, quickly and conveniently.



DRINKING WATER TREATMENT UNITS

If your plumbing product contains a filter, water softener, reverse osmosis unit, or ultraviolet disinfectant (UV) unit, it should be tested and certified against the CSA B483.1 and NSF/ANSI 42, 44, 53, 55, and 58 standards. CSA Group is able to certify not only mechanical plumbing components to these standards but also electrical components, including ballasts in UV water treatment systems, and solenoid valves in water softeners (standards C22.2 No. 139 and UL429). CSA Group evaluates both point of entry and point-of-use products, and can test and certify individual plumbing components, such as filter cartridges that reduce lead or chlorine.



WMTCS/SMTC AND FIELD SERVICES

Is your plumbing product too large, expensive, or specialized to obtain certification? If you're qualified to do so, CSA Group can offer witness testing at your facility to give you more flexibility during the certification process. In some cases, we can also perform certification at your plumbing product's installation site to save you the trouble of having to come to us. This can help you avoid time-consuming local inspection delays whilst you wait for your product to become certified.



GLOBAL MARKET ACCESS

Bringing your product to markets outside of North America can be extremely challenging, with requirements differing from country to country. CSA Group can help you understand what's needed to gain access to European markets or expand into Mexico, Australia, and Central America, and effectively navigate your business through these channels.

The CSA Group Difference

Rely on an internationally recognized company with over 100 years of expertise and knowledge. From our early beginnings developing standards for railway bridges to today's latest sustainable technologies, we're always looking forward and developing innovative standards and testing programs for the most advanced and emerging technologies. Drawing on our industry accreditations, our customer-focused experts can create custom solutions that meet your unique testing, inspection, and certification needs. That's how we're holding the future to a higher standard.



GREASE INTERCEPTOR TESTING & CERTIFICATION

Before your plumbing product can be installed into a restaurant kitchen or other commercial location, its grease interceptor or grease removal device must be certified. Whether your product uses a hydromechanical or electric method to trap and remove grease from water, our testing and certification services can help you achieve certification in the US and Canada, according to its grease capacity. CSA Group tests plumbing products

against standards ASME A112.14.3, ASME A112.14.4 and CSA B481.1 and CSA B481.5, of which members of our team helped to develop and are still involved in improving.

We can also test against the PDI G-101 (Plumbing and Drain Institute Guide 101), either in isolation or in combination with other standards.



WATERSENSE®

The United States EPA water efficiency standard, WaterSense®, specifies the flow rate and performance that plumbing products must adhere to in order to comply with the WaterSense® standard performance specifications. WaterSense® adherence is required by green building codes, LEED, and some plumbing codes. CSA Group is a US EPA approved certification body for the WaterSense® program. Our team members have an in-depth understanding of the WaterSense® levels for

your product and can verify the efficiency and water savings capabilities of qualifying products. Work with CSA Group to learn how to meet these specific criteria while your plumbing product is being developed.



ATTESTATION

If you're manufacturing a plumbing product for which no current Certification program exists, this CSA Group service is for you. We can write you a Letter of Attestation and Report or an Attestation Report for your product.



CYBERSECURITY

Many products are reaching market that offer the ability to control the plumbing in a home, commercial or industrial building remotely through a mobile application. These smart plumbing products, which include water leak detectors and voice-activated fixtures, are often integrated through Wi-Fi. Wireless interconnection enables the user to manage all outlets of a water management system conveniently and may also gather and present valuable water usage data. Plumbing products need to be cyber-safe, just as all other connected products and systems. CSA Group will work closely with you to test your plumbing product in accordance with local and global manufacturing standards, making sure its wireless features operate as intended and don't pose a risk to users.

csagroup.org/plumbing

Let's work together

Put CSA Group's industry-leading knowledge and experience to work for you.

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