



COMMITTED TO SAFETY



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ONE-STOP GLOBAL CERTIFICATION SOLUTIONS

[www.labtestcert.com](http://www.labtestcert.com)



# Index

1. President's Message
2. Intro to LabTest
3. Our Timeline
4. New Location, Added Capabilities
5. What We Do & How It Works
6. Programs
7. Electrical
8. Hazardous Locations
9. EMC
10. Fuel Burning
11. Environmental
12. Solar
13. Building Materials
14. Plumbing
15. Energy Efficiency
16. Marine
17. International Approvals

## Locations

### Head Office

205 - 8291 92 Street  
Delta, British Columbia  
V4G 0A4, Canada

### Canada

Delta, BC  
Richmond, BC  
Toronto, ON

### USA

Las Vegas, NV  
Houston, TX

### Service Centres

Damascus, MD  
San Antonio, TX  
United Kingdom  
Germany  
Australia  
China  
Brazil  
South Korea  
India



Your partner in  
**Testing and Certification**

I would first like to thank you for helping LabTest Certification Inc. grow into an internationally accepted Certification Body. It is with great pride and honour that we have been accepted by our globally, much largely recognized peers as an equal. With recognitions as IECEE CB Scheme member, IECEx Scheme member, and Global Solar Certification Network (GSCN) member, LabTest is now part of an elite group of Certification Bodies assisting local and international manufacturers get their products to global markets.

We understand that in this global and competitive market you have many choices, especially when it comes to choosing your certification agency. At LabTest, we pride ourselves on being a responsive partner with ALL our clients, big or small. We have implemented and enforced a very simple policy with our Staff, to form strong relationships with all our customers. With this relationship, we can build trust, have clear communication, and set expectations for projects.

As a younger and fresher Certification Body, and compared to other certification agencies, LabTest is able to move quickly and efficiently meet the needs of our clients, who require fast turnaround times, as Time-To-Market is critical for all. We have the experience, accreditations, and know-how to satisfy the most unique requirements for testing and certification.

As LabTest continues to grow and expand its horizons, I would like to extend an invitation to any of our existing and potential clients to provide us with their feedback. It is this feedback that helps us grow and make changes to our procedures, to better align our goals and expectations with those of our partners'. Your feedback, can be addressed directly to me at [kdhillon@labtestcert.com](mailto:kdhillon@labtestcert.com).

**Kavinder Dhillon** - President, LabTest Certification Inc.





# INTRO TO LABTEST

**LabTest Certification Inc.** is an accredited Certification Body, Testing Laboratory, and Inspection Body accredited to **ISO 17065, ISO 17025, and ISO 17020** by national and international accreditation bodies (ILAC and IAF Signatory Members), such as Standards Council of Canada (SCC), International Accreditation Services (IAS), ANSI-ASQ National Accreditation Board (ANAB), and recognized as an IECEx and IECEE CB Scheme member.

With offices and testing laboratories in Delta, BC (Canada - Head Office), Richmond, BC (Canada), Toronto, ON (Canada), Las Vegas, NV (USA), and partner testing laboratories and inspectors globally located, LabTest provides product testing and certification to national and international standards in the areas of Electrical, Hazardous Locations, EMC, Gas, Plumbing, Marine, Solar, Energy Efficiency, Building Materials, as well as Environmental Testing, both in house and on-site evaluations anywhere.

## Why partner with LabTest Certification Inc.

**Prior to the 90's**, accredited CB's around the world could only certify products for the country they were located in. The implementation of free trading agreements brought a much needed change to the product conformity requirements for each market. With the new requirements, accredited Certification Bodies were now able to provide product approvals for any intended market. *For example*, a CB located in Canada could now certify products intended for the USA market and vice versa.

These changes helped to eliminate the existing monopoly that was limiting the available options for manufacturers in selecting Certification Bodies like **LabTest Certification Inc.** Throughout the years, LabTest has become a valuable alternative for manufacturers seeking certification and a trustable partner in Testing and Certification.

Being a younger Body has allowed us to adapt to our clients and market's needs and provide:

- Fast Turnaround Times
- One-stop solution, all testing done in house
- Quick decision and troubleshooting process - non beaurocratic system
- Exceptional Customer Service and Communication
- High levels of integrity and transparency

At LabTest, we value ethical business conduct at all times and consider our clients as part of the family. To make it easier to navigate through the dynamic global marketplace with its ever-changing regulatory requirements, we walk with you through every step of the way and provide customized test plans that best suit your needs. **We work with YOU toward YOUR goal.**

## Partnership

Joining forces with other certification bodies and testing laboratories worldwide increases the range of services offered and provides manufacturers with the advantage of localized testing for their products, therefore, reducing time to market and cost. To better assist its clients, **LabTest** has established – and continues to establish - a number of partnerships with agencies globally located, to provide local testing and/or certification.

## Community

At **LabTest** we are more than just a Testing & Certification agency. We are a part of the community we live in and as such, we believe in giving back to the community and get actively involved in a number of local events and causes.



# Our Timeline

LabTest Certification Inc.

**2003**

LabTest was founded  
Richmond, BC.  
Started as Testing Laboratory.  
One unit, two engineers.

**2003 – 2007**

Partnered with other CB's for  
certification of Electrical products  
(CSA/UL standards & CE Marking).

**2005**

EMC Pre-compliance Testing.  
Gas Testing.

**2006**

IC & FCC recognition.  
OATS, Open Area Testing  
Site (EMC).

QMS Department  
established.

**2007**

Standards Council of Canada  
(SCC)  
ISO 17065 Accredited  
Certification Body.

**2007 – 2010**

Continued to add standards to  
ISO 17025 & ISO 17065  
Scope of Accreditations.

**2010**

Las Vegas 1st location opened  
(Placid St.).  
Solar Testing.

**2011**

Expanded Richmond  
location to second unit.

International Accreditation Services  
(IAS) ISO 17025 Accredited  
Testing Laboratory.

Continued to hire additional Staff.

**2012**

EMC Full Compliance  
3-meter chamber.  
Las Vegas lab moved to new location  
(Pepper Ln.)  
Joined CNCIEC.

**2013**

Joined IECEx Scheme.  
1 of 3 CB's in Canada.  
1 of 6 CB's in North America.

**2015 – 2016**

Head Office moved to  
new location(Delta, BC).  
Added Vibration &  
Fenestration Testing.

**2017**

Joined IECCE CB Scheme.  
Started construction of  
2nd EMC Chamber.  
Started construction of  
Steiner Tunnel.  
Las Vegas EMC Chamber.

**2018**

Accredited Notified Body.  
Completed Steiner Tunnel  
and EMC Chamber.

**2019**

Expanding presence to Eastern Canada.  
Expanding presence to Southern USA.  
NRTL Recognition  
Expanding to Korea  
Curtain Wall testing





# NEW LOCATION, ADDED CAPABILITIES

December 2015 was an exciting time for LabTest. While the loyalty of our clients was the key factor that contributed to our steady growth over the years, the joining of the IECEX Scheme in 2013 was the real game changer, which also prompted the move to the new Delta, BC facility in 2015.

In addition to now having a much larger parking lot, the new facility with the added space also brought new capabilities. One of the very first new additions was our very own, 3-axis Electrodynamic Shaker (Vibration Table) with sample capabilities of up to 2,000+ lbs. Prior to the move and due to lack of space, Vibration Testing was the one and only service that LabTest was providing through one of our partner labs. Once the table was in, the Fenestration Testing Wall followed and so did other equipment, adding to our existing list of services.

While our operations were relocated to the new Delta location, our EMC department and its 3-meter Anechoic chamber remained at the original Richmond, BC location. Once again due to another growth spurt, this time in the EMC department, the planning for a second chamber with added capabilities began at the Delta facility and was completed in the Fall of 2018, as well as the addition of an EMC chamber at the Las Vegas location, also in 2018.

As typical of this industry, market demand is what drives the need for expansion and is an ongoing process. Like manufacturers continuously improve and develop new products, Certification Bodies also expand their scope of accreditations and services, for continuous growth. Some of the additions made between 2017 – 2018 were:

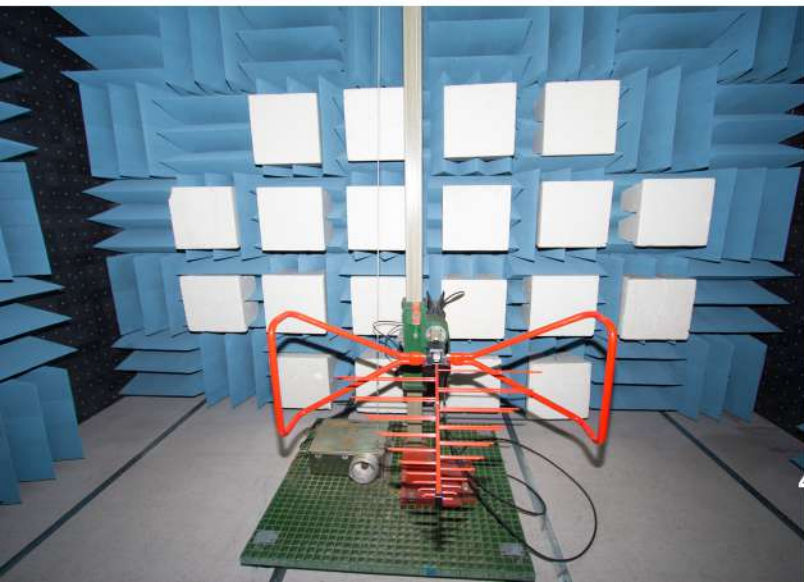
- IECEE CB Scheme (NCB & CBTL)
- Fire Testing
- EMC Chamber #2
- Automotive Sub-Component Testing
- Servo-Hydraulic Shake Table (Seismic Testing)
- Ozone Air Testing

Coming up in 2018 – 2019:

- Expanding to Eastern Canada
- Expanding to Southern USA



*I contacted a dozen labs over the weekend, and you're the only one that replied.*  
*Cynthia White - Freelance Writer & Marketing Consultant*





# WHAT WE DO & HOW IT WORKS!

## What is Certification?

Certification is the process of testing and evaluating products to demonstrate that they meet the minimum requirements of applicable industry set safety and/or performance standards of the country they will be entering.



## How Does It Work?

**LC CERTIFICATION PROCESS**
**LABTESTCERT.COM**

<b>1</b> CLIENT CONTACTS LABTEST	<b>7</b> TESTING
<b>2</b> RFQ FORM SENT TO CLIENT TO GATHER PRODUCT INFORMATION	<b>8</b> TEST DATA INTERPRETED AND ANALYZED
<b>3</b> STANDARDS IDENTIFIED APPLICABLE	<b>9</b> DRAFT REPORT SENT TO CLIENT
<b>4</b> QUOTE & CERTIFICATION PACKAGE ISSUED TO CLIENT <small>(Within 2 Business Days)</small>	<b>10</b> INITIAL FACTORY INSPECTION (IFI) <small>One time inspection. Prior to issuance of certificate</small>
<b>5</b> PROJECT HOLDER CONTACTS CLIENT <small>(Start Letter &amp; Scheduling)</small>	<b>11</b> FINAL REPORT <small>Certificate &amp; Authorization Letter (LC Mark) Issued</small>
<b>6</b> CONSTRUCTION EVALUATION <small>Findings letter sent to client</small>	<b>12</b> FACTORY ASSESSMENTS <small>At manufacturing facility. Needed to maintain certification</small>

VISIT [WWW.LABTESTCERT.COM](http://WWW.LABTESTCERT.COM)

## Who Needs Certification

Manufacturers, exporters, and anyone else wishing to place products in national and international markets.

LabTest Certification Inc. provides Testing and Certification for various product categories to national and international standards. Once evaluated to prove that they have met the standards' requirement, products destined for the **North American** market, will be LC Listed and will bear the LC Mark, whereas products meant for the **European Union** market will bear the CE Mark, Ex (ATEX), or other. Lastly, products going to other **International** markets, will be affixed with the Certification Mark of one of the national Certification Bodies of the particular country the products are entering.

## The LC Mark

LabTest provides national and international approvals to a variety of safety and performance standards for markets like North and South America, Europe, Asia, Australia, Middle East, and more.



The LC Mark is widely recognized throughout North America (Canada & USA) and provides a guarantee that your product was evaluated to the applicable industry set standards and meets the minimum requirements requested by the standard(s).

"I contacted **LabTest** because we needed IECCE CB Scheme, cLCus, CE product certification. **LabTest** offered us technical advice and testing which helped in optimizing the design to comply with the certification requirements. We were very satisfied with the professionalism and the results. All three certificates were issued after strict and documented test procedures. I highly recommend **LabTest** to anyone that needs certification for local or worldwide markets."

- SICPA Services Canada Limited

# PROGRAMS

**T**

## CERTIFICATION

After the product is found compliant with the applicable industry set safety and performance standards for the specific product type and upon satisfying manufacturing process, manufacturers are provided with authorization to label their product with LC Mark.

**S**

## SPECIAL INSPECTION (CANADA ONLY)

- One-time Inspection - Limited quantities – for Canada only
- LabTest to affix approval labels
- CSA SPE-1000: Electrical products
- CSA SPE-3000: Medical Devices and Systems
- CSA B149.3: Fuel Burning products

**E**

## SPECIAL ACCEPTANCE UNIT VERIFICATION

- Limited production approvals for ordinary and/or hazardous locations products
- Product evaluated to full standard(s)
- LabTest to affix LC certification mark
- National and international markets

**T**

## PDR (PRELIMINARY DESIGN REVIEW)

Review of documentation and sample (if available) to identify potential design issues. Findings letter issued.

**B**

## FILE TRANSFER

Certifications previously issued by a different CB, upon review and acceptance of test reports, can be re-issued under LabTest name (transferred to LabTest), typically without additional testing.

**A**

## FIELD EVALUATION

Evaluation conducted at manufacturing, installation or other designated location.

**L**

## TESTING

- Products evaluated to technical specification
- Manufacturers are provided with test reports as per ISO 17025 accreditations.





# ELECTRICAL

## What is Electrical Testing?

Evaluating products to ensure they meet the minimum requirements of industry set Safety standards (national and international) to ensure they are not a hazard to people and property. Some examples of hazards are shock, fire, energy, and mechanical hazards.

Electrical products for the North American market are required to be certified by an accredited third-party (Certification Body), such as LabTest Certification Inc., as per the National Electrical Code (USA) and Canadian Electrical Code (Canada). Electrical products for the European Union (EU) are required to comply with the Low Voltage Directive (LVD) and other applicable EU New Approach Directives for CE Marking.

## Products examples:

- Household Appliances (toasters, stoves, rice cookers, tools, blenders, heaters, outlet boxes)
- Lighting (LED, incandescent, etc)
- Industrial (control panels, pumps, skids, motors, compressors, power supplies)
- Hazardous Locations (oil & gas, mining products, pharmaceutical, etc)
- Medical (hospital devices, home care, dental)
- Laboratory (test and measurement equipment)
- IT / Audio Video (computers, TV's, cameras & video cameras, communication equipment, power supplies)



Products that are compliant with Canadian safety standards are labelled with the cLC Mark.

Products that are compliant with US safety standards are labelled with the LCus Mark.



# HAZARDOUS LOCATIONS

## What is HazLoc?

Also known by different names such as "Hazardous Areas", "Ex Areas", and "Explosive Atmospheres", HazLoc relates to areas where flammable liquids, vapours, gases, or combustible dusts are likely to occur in quantities sufficient to cause a fire or explosion.

## Hazloc Equipment (Ex Equipment)

Equipment used in Hazardous Locations (Ex Areas). Any electrical and non-electrical product that can create a spark or has enough energy to ignite a flammable gas, liquid, vapour, or dust.

## One-Stop Solution for HazLoc Approvals

Whether seeking approvals for North America, Europe, or the world, LabTest Certifications Inc. can cover all your HazLoc needs.

- North America: Classes & Divisions (Old Approach), Zones (New Approach)
- IECEx: IEC 60079 Series of Standards - Zones (New Approach)
- ATEX: 2014/34/EU Directive - Zones (New Approach)

### North America:

• Under its ISO 17025, ISO 17065, and ISO 17020 accreditations, LabTest provides Testing and Certification and Factory Inspections for Ex Equipment for North America, both to Old Approach Classifications and New Approach Zones Methodology.

### IECEX:

• LabTest Certification is recognized by IECEx as an ExTL and ExCB, approved to operate within the IECEx Certified Equipment Scheme, to issue IECEx Test Reports (ExTR), IECEx Quality Assurance Reports to ISO/IEC 80079-34 (QAR), and the Online Certificate of Conformity (CoC). For products outside the IECEx Scheme, LabTest holds MOU's with other National Certification Bodies to provide local certification marks for the intended market.

### ATEX:

• Under the Comprehensive Economic and Trade Agreement (CETA) between Canada and the European Union, LabTest is accredited as a Notified Body and approved to issue ATEX Test Reports (Technical Dossier), ATEX Quality Assurance Notification to ISO/IEC 80079-34 (QAN), and the EU-Type Examination Certificate.

As members of the IECEx Scheme, Canada and the USA have adopted the IEC 60079 series of standards and its New Approach Markings for Zones, with country specific national deviations. The Old Approach Classifications are in the process of being replaced by the New Approach Zones Methodology, in the Canadian and US electrical codes, getting us one step closer to having the one-standard-fits-all wish come true and allowing manufacturers to evaluate their products to a single-test program and avoid repeat testing.

### NEWLY ADDED STANDARDS:

- IEC 60079-13
- IEC 60079-28
- IEC 60079-30 Series
- IEC 60079-33
- IEC 60079-36
- IEC 60079-37



## 60079 SERIES

1

### IEC 60079-0 PART 0

Equipment - General requirements

2

### IEC 60079-1 PART 1

Equipment protection by flameproof enclosures 'd'

3

### IEC 60079-2 PART 2

Equipment protection by pressurized enclosures 'p'

4

### IEC 60079-6 PART 6

Equipment protection by oil immersion 'o'

5

### IEC 60079-7 PART 7

Equipment protection by increased safety 'e'

6

### IEC 60079-11 PART 11

Equipment protection by intrinsic safety 'i'

7

### IEC 60079-15 PART 15

Equipment protection by type of protection 'n'

8

### IEC 60079-18 PART 18

Equipment protection by encapsulation 'm'

9

### IEC 60079-25 PART 25

Intrinsically Safe Electrical Systems, protection 'i'

10

### IEC 60079-26 PART 26

Equipment with equipment protection level (EPL) Ga

11

### IEC 60079-31 PART 31

Equipment dust ignition protection by enclosure 't'

12

### IEC TS 60079-46 PART 46

IECEx Assessment & Certification of Equipment Assemblies





# EMC (ELECTROMAGNETIC COMPATIBILITY)

Electromagnetic Compatibility (EMC) is the branch of electrical engineering concerned with the intentional and unintentional generation, propagation, and reception of electromagnetic energy that may cause unwanted effects, such as electromagnetic interference (EMI) or physical damage to operational equipment.

Any product with a clock, oscillator, or processor operating at frequencies of 9 kHz or higher will need EMC Testing. EMC requirements differ from country to country, as set-out by the local Telecommunication Regulatory Bodies.

LabTest Certification Inc. is an ISO 17025 accredited Testing Laboratory, accredited by ANSI-ASQ National Accreditation Board (ANAB) and recognized by ISED (IC) for Canada. Under the APEC MRA with Canada, LabTest is also recognized as a Conformity Assessment Body (CAB # CA5970) by the Federal Communications Commission (FCC) for the USA, Europe (EMC, RED, and MED Directives), Australia/New Zealand, Taiwan, Korea, Japan, and Mexico.




## STANDARDS

- 1 FCC Parts 15, 18, 22, 90, 96, 80, and more.
- 2 RSS-Gen, RSS Series
- 3 ICES-001, ICES-002, ICES-003, and ICES-005
- 4 CISPR/AS/KN: 11, 12, 14-1, 14-2, 15, 16, 22, 24, 25, 32
- 5 IEC/EN/KN: 61000 series
- 6 IEC/CSA/UL/EN: 60601-1-2 (Ed 3 and 4)
- 7 DNVGL-CG-0339, DNV 2.4, IEC 60945
- 8 MIL-STD-461; MIL-STD-462
- 9 DO-160
- 10 Bellcore (NEBS), GR-1089-CORE
- 11 ISO 7637-2
- 12 VCCI Series
- 13 ETSI EN 300 Series
- 14 NOM-084-SCT1-2002, NOM-088/1-SCT1-2002, NOM-088/2-SCT1-2002, NOM-EM-016-SCF1-2015

**FULL PRODUCT RADIATED PRESCANS  
IN LESS THAN 2 HOURS!**

- Certified 3-meter full compliance Anechoic radiated-immunity chamber
- Emission Testing, up to 40GHz
- Immunity Testing, up to 18 GHz and 200 v/m
- 600 VAC, 3 phases, 100-amp DC/AC mains capabilities
- Special equipment for Transients testing
- Special equipment for Radio testing
- 30 kV ESD Simulator with variety networks
- Immunity Transients for Automotive
- NEBS Testing
- MIL-STD-461

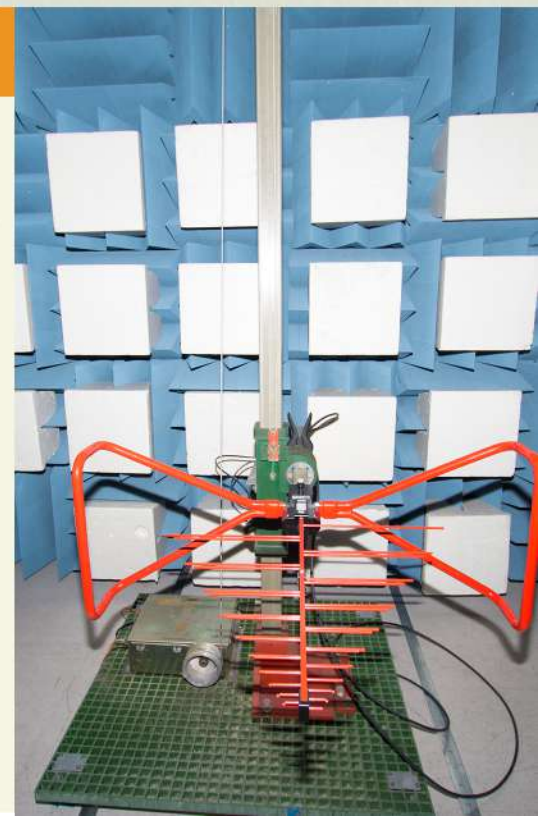


 Innovation, Science and  
Economic Development Canada

Accredited Notified Body for EMC and Radio Equipment Directive (RED) and authorized to issue EU-Type Examination certificates.

## PRODUCT EXAMPLES

- Households Appliances
- Lighting
- Medical (Hospital devices, Home Care, Dental, Hearing Aids)
- Laboratory (Test & Measurement Equipment)
- Wi-Fi Modules
- Radio Modules
- Marine Equipment
- Satellite/Navigational Systems
- IT/Audio Video
- Military
- Telecommunications
- Automotive





# FUEL BURNING

LabTest Certification Inc. is the industry leader in assisting manufacturers in evaluating their Gas and Solid Fuel appliances, for Testing and Certification to national and international standards:

- > CSA/CGA - Standards for Canada
- > ASHRAE – Standards for Energy Efficiency
  - > ANSI/UL - Standards for USA
  - > EN - Standards for European Union
- > AS/NZ - Standards for Australia/New Zealand

Whether testing in house or on-site, LabTest provides cost effective solutions and quick turnaround time for you product approvals. Field Evaluations can be booked on short notice across Canada and USA.

Gas & Solid Fuel Product Categories:

- > Household & Commercial Appliances
  - > Fireplaces, Fire Pits, BBQ's Cooking Appliances
  - > Boilers, Heaters, Furnaces
- > Greenhouse Carbon Dioxide Generators
  - > Industrial Gas Burners

## APPROVALS FOR CE MARKING & AUSTRALIA

*I would recommend LabTest for your Testing and Certification needs. Our project went well and was completed on time and within budget. It was great to have a team of test engineers who listen to your requests. Although I have not personally met most of the engineers, I feel like I know them.*

*HF Scientific Inc.*

## STANDARDS

- ANSI Z21.50/CSA 2.22
- ANSI Z21.88/CSA 2.33
- ANSI Z21.97
- ANSI/CAN1-2.21
- ANSI Z21.57
- ANSI Z21.58
- ANSI Z21.10
- ANSI Z21.13/CSA 4.9
- ANSI Z21.63/CSA 11.3
- ANSI Z21.72/CSA 11.2
- ANSI Z21.76
- ANSI Z21.86/CSA 2.32
- ANSI Z21.89/CGA1.18
- ANSI Z21.1
- ANSI Z21.91
- ANSI Z83.7/CSA 2.14
- ANSI Z83.26/CSA 2.37
- CSA P4.1
- CSA B366.1
- CSA B415.1
- CSA B140 series
- CSA/CGA-3.4
- AS 2658
- AS 4551/AG101
- AS 4553/AG 103
- AS 4563
- EN 30 series
- EN 13229
- EN 13240
- EN/ISO 14895
- EN/ISO 10239
- EN 203 Series
- EN 498
- EN 298



# ENVIRONMENTAL

LabTest provides

Manufacturers with environmental testing services and evaluates their products for various environmental conditions. With the harmonization of national and international standards, environmental requirements are becoming increasingly mandatory for all product categories.

In addition to environmental testing which are required by safety and performance standards, LabTest also provides testing for Research & Development projects.



## Covered Standards

- > NEMA Enclosures as per NEMA 250, UL 50, and CSA-C22.2 No. 94
- > IP Rating as per IEC/EN 60529
- > MIL-STD-810
- > IEC/EN 60945 – Environmental Testing for Marine Equipment
- > IEC 60068 Series
- > SAE 1455

## Environmental Chambers

- > Humidity Chamber (Damp Heat)
- > Hot and Cold Temperature Chambers
- > Dust Blowing Chambers as per MIL-STD-810
- > Sand Blowing Chambers as per MIL-STD-810
- > Settling Dust Chamber as per MIL-STD-810
- > IP 5X and IP 6X Dust Chambers
- > Vibration Testing
- > Random Shock Testing
- > Temperature Shock Testing
- > Corrosion & Protective Coatings
- > Chemical Testing
- > Exposure/Accelerated Aging Testing
- > Solar Radiation
- > Microscopy
- > Seismic Testing



- > Sample capability up to 2,000+ lbs
- > 3-axis Testing capability
- > DC-3 to 4000 Hz frequency range
- > 60,000 N Force rating

"We approached LabTest to measure and improve one of our product's performance, in the presence of aircraft vibrations. Although our original test plan was vaguely defined, the flexibility of the equipment operator made testing, retesting, and tweaking on the fly as easy as possible. As a result, we gained valuable insight on how to improve our product. LabTest was very helpful with our work before and during testing. We would recommend LabTest to anyone needing vibration testing for R&D and product development purposes."

- Norsat International



# SOLAR

With Solar, as one of the fastest growing technologies in the renewable energy market, LabTest Certification Inc. is proud to be the industry leader in assisting manufacturers with the evaluation of Thermal Solar Collectors and Systems and Photovoltaic Water Heating Collectors. Recognized by SRCC as a third-party Testing Laboratory and by the Global Solar Certification Network as an accredited Certification Body for Solar products, we provide testing for the following product categories:

- ICC 901/SRCC 100 Solar Thermal Collector Standard
- ICC 900/SRCC 300 Solar Thermal System Standard
- SRCC™ OG-100 Operating Guidelines For Certifying Solar Collectors
- SRCC™ OG-300 Operating Guidelines For Certifying Solar Water Heating Systems
- SRCC™ TM-1 Solar Domestic Hot Water System And Component Test Protocols
- ICC-SRCC Test Method TM-2, Photovoltaic Water Heating Collector Test and Certification Protocol
- CAN/CSA-F379.1 "Solar Domestic Hot Water Systems - All Season"
- CAN/CSA-F379.2 "Solar Domestic Hot Water Systems - Seasonal Use"
- CAN/CSA-F378 "Solar Collectors"
- CAN/CSA-F383 "Installation of Packaged Solar Domestic Hot Water Systems"
- UL 1703 Standard for Flat-Plate Photovoltaic Modules and Panels
- ISO 9806 Solar energy - Solar thermal collectors - Test methods



*We needed SRCC collector certification and LabTest helped perform the tests to the required specifications. The completed test resulted in a certified collector. LabTest staff went out of their way to make sure the test setup could be adapted for my needs. They made sure the test setup was working properly and to my expectations. They put in a lot of extra effort.*

*Solight HYPERLINK "solightsolar.com" Solar Inc.*





# BUILDING MATERIALS

As per national and international Building Codes, products that are used to construct buildings, including residential and commercial units, are required to have been tested and certified by an accredited third-party Testing Laboratory and Certification Body.

Our services include Testing and Certification for the following:

- Fenestration
- Roofing materials
- Fire Doors
- Fire Ratings (Flame Spread)
- Structure Testing
- Weather Proof



## FENESTRATION TESTING

Federal, provincial, and municipal Building Codes have become more harmonized, affecting the Fenestration industry directly. Product Testing and Certification are now the norm, providing a level of quality assurance not previously seen.

LabTest Certification Inc. conducts NAFS (Physical Performance Testing) and Thermal Modeling according to nationally and internationally recognized Fenestration testing standards and specifications:

NAFS - AAMA/WDMA/CSA 101/I.S.2/A440-11, Physical Performance Testing

Thermal Modeling - A440.2-14, Fenestration Energy Performance Modeling

### Tests

- Operating Force
- Air Leakage
- Water Penetration
- Structural Performance
- Forced Entry Resistance
- Positive/Negative Pressure

### Products

- Fixed & Sliding Windows
- Casement Windows
- Hinged / Sliding Doors
- Skylights & Roof Windows and more...

## FIRE TESTING

LabTest offers Fire Testing services to manufacturers and distributors of materials used in the construction industry in accordance with ASTM E84, ULC S1012, and other building materials standards. With its in-house Steiner Tunnel, one of the most popular test methods used in North America to determine fire ratings, LabTest provides fast turnaround and competitive pricing for testing and certifying various product categories.

### Standards

1	2	3
ASTM D1997	CAN-ULC-S101	UL 72
ASTM D3163	UL 555	UL 263
ASTM D3719	UL 555C	UL 1709
ASTM E84	UL555S	UL 1715
ASTM E119	UBC 7-1	UL 1975
ASTM E136	UBC 8-2	UL 2043
ASTM E814	UBC 26-3	UL 2079
ASTM E1529	UBC 1	ULC-ORD-C72
ASTM E1623	UL 10	ULC-ORD-C2043
ASTM E1966	UL 10B	UL 1479EN/ISO 7840
ASTM E2257	UL 10C	IEC/EN 60695-2-2



### Tests

- Surface Burning
- Flame Spread
- Smoke Density

### Products

- Cladding
- Exterior Walls
- Flooring Materials
- Composite Materials (plastics)
- Ceiling Tiles
- Drywall
- Plywood & other lumber
- Tubs & Shower basins (institutions/hospitals)



## TEST

- \* NSF 2
- \* NSF 4
- \* NSF 8

## CERTIFY

- \* NSF 51
- \* NSF 61



# PLUMBING

Bathtubs, sinks, and pipes are just some examples of Plumbing products that need to comply with the requirements of safety, performance, and health standards. No matter where you sell your products, LabTest will test and certify them to the applicable standards for compliance with the regulations of the country they will be entering. ANSI, ASME, ASSE, ASTM, CSA, NSF, EN are some of the standards covered in our Scope of Accreditations.

### Products:

- Hydromassage Bathtubs
- Lavatories
- Pipes
- Showers
- Faucets
- Water Closets

- Fixtures
- Backflow Preventers
- Piping Systems
- Fittings
- Valves
- Kitchen Sinks

### Standards:

- CSA-B45 Series
- CSA-B125 Series
- ASME-A112 Series

[www.labtestcert.com](http://www.labtestcert.com)



# Go Green | Protect The Environment | Clean Energy

## How do we do that?

Industry and government regulations are there to guide us and we, at LabTest, are here to make sure your products comply with the requirements of the three main Regulatory Bodies for energy efficiency in North America: NRCAN (Canada), DOE and EPA (USA).

Our Accreditations will have your products covered for national and global approvals for Energy Efficiency and Energy Star. Our LC Energy Verified mark will guarantee that your devices and appliances are energy efficient. LabTest provides Testing and Certification services for the following:

### Appliances

- Dehumidifiers
- Air Purifiers
- Freezers
- Refrigerators

### Water Heaters

- Commercial Water Heaters
- Heat Pump Water Heaters
- Solar Water Heaters
- Whole-Home Tankless Gas Water Heaters



### Office Equipment

- Computers
- Data Center Storage
- Enterprise Servers
- Monitors
- Uninterruptible Power Supplies
- Imaging Equipment

### Commercial Food Service

- Commercial Fryers
- Commercial Griddles
- Commercial Hot Food Holding Cabinets
- Commercial Steam Cookers
- Commercial Ice Makers
- Commercial Ovens

### Heating & Cooling

- Boilers
- Commercial Boilers
- Light Commercial Heating & Cooling
- Ventilation Fans

### Electronics

- Audio/Video
- Digital Media Player
- Set-top Boxes
- Signage Displays
- Slate and Tablets
- Telephone
- Televisions



### Lighting

- Decorative Light Strings
- Light Bulbs
- Light Fixtures
- Ceiling Fans

### Others

- Residential Windows, Doors and Skylights
- Roof Products
- Electric Vehicle Supply Equipment (EVSE)
- Water Coolers

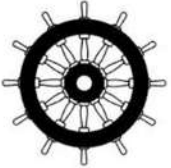
# MARINE

ISO 8846  
ISO 8849  
IMO Resolution MEPC 107 (49)  
IMO Resolution MEPC 125 (53)

IEC 60945  
IACS-E10  
DNVGL-CG-0339  
CFR 162-060-30

## COMMON STANDARDS

Manufacturers needing approvals for their Marine products can rely on LabTest Certification to obtain a **Single Test Plan** that will offer our clients easy access to CE Marking, Classification Agency Type Approval, and the Wheel Mark for the Marine Equipment Directive. Our single test plan approach will satisfy the requirements of the major Classification Agencies, such as:



- Det Norske Veritas (DNV GL)
- American Bureau of Shipping (ABS)
- Bureau Veritas (BV)
- Lloyds Register of Shipping
- Registro Italiano Navale Group (RINA)
- Korean Occupational Safety and Health Association (KOSHA)
- China Classification Society (CCS)
- Canadian Coast Guard
- US Coast Guard (USCG)



*I would recommend LabTest for your Testing and Certification needs. Our project went well and was completed on time and within budget. It was great to have a team of test engineers who listen to your requests. Although I have not personally met most of the engineers, I feel like I know them.*

*HF Scientific Inc.*



Recognized as a sub-lab for Ballast Water Treatment Systems



IMCI recognized for Recreational Craft Directive since 2003



# INTERNATIONAL APPROVALS



## CE MARKING

As an independent testing agency, LabTest Certification Inc. provides you with a fast and cost-effective solution for compliance with CE Marking and all of its New Approach Directives. Our experienced Engineers make the route to the European Union a painless travel for you and your products. LabTest can provide you with:

- Technical File Preparation
- Certificate of Compliance
- Declaration of Conformity

Unfortunately, there is no comprehensive list of the products that require CE Marking. Therefore, it is the manufacturer's responsibility to determine so. The New Approach Directives are documents that contain the legislation issued by the European Commission on the requirements that need to be met and procedures that must be followed, in order for a particular product to be CE Marked and to be sold in the EU.

## ATEX

Under the Comprehensive Economic and Trade Agreement (CETA) between Canada and the European Union, LabTest is accredited as a Notified Body and approved to issue ATEX Test Reports (Technical Dossier), ATEX Quality Assurance Notification to ISO/IEC 80079-34 (QAN), and the EU-Type Examination Certificate.

## IECEE & IECEX

The IECEE and IECEX are operated by the IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE) and Equipment for use in Explosive Atmospheres (IECEX). Both Schemes are based on the mutual acceptance of test reports and certificates by the National Certification Bodies (NCB's) of the member countries, to facilitate and simplify international trade.

As an IECEE CB and IECEX Scheme member, LabTest Certification Inc. provides:

- Testing to IEC Standards, with national deviations (if applicable)
- IEC Test Reports (TRF's and ExTR's)
- IEC Certificates (CB Scheme and IECEX Scheme Certificates)
- IECEX Quality Assurance Reports to ISO/IEC 80079-34 (QAR)

For products outside the CB and IECEX Schemes, LabTest holds MOU's with other National Certification Bodies to provide local certification marks for the intended market.



"I heard about Labtest from a colleague who recommended them. They explained which standards applied to our products and how the audit process worked. Staff had extensive knowledge pertaining to the application of the correct standards for testing each model. Working with Labtest was very helpful in gaining a better understanding of applicable standards. Our company is now ATEX and IECEX certified to build approved products. Thank you Labtest!"

- The PBE Group





1 (855) 346-0444

Certification Body to **ISO 17065**

Testing Laboratory to **ISO 17025**

Inspection Body to **ISO 17020**

IECEX (ExCB & ExTL)

IECEE CB Scheme (NCB & CBTL)

IC (Industry Canada)

FCC (United States)

RED

EMC

ATEX

GSCN

[www.labtestcert.com](http://www.labtestcert.com)



**Your Partner In Testing and Certification**