



CERTIFICATE OF ACCREDITATION

This is to attest that

QAI LABORATORIES LTD.

3980 NORTH FRASER WAY
BURNABY, BRITISH COLUMBIA V5J 5K5
CANADA

Product Certification Agency PCA-118

has met the requirements of the applicable provisions of AC370, *IAS Accreditation Criteria for Product Certification Agencies*, has demonstrated compliance with ISO/IEC Standard 17065:2012, *Conformity assessment - Requirements for bodies certifying products, process and services*. This third-party product certification agency is accredited to provide the services specified in the scope of accreditation.

Effective Date May 5, 2023



President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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QAI LABORATORIES LTD.

www.qai.org

Contact Name Jarred Johnson

Contact Phone +1-918437833

Accredited to ISO/IEC 17065:2012

Effective Date May 5, 2023

Products Category	Certification Scheme and Scheme Owner / Standard
Electrical Products (Electrical Safety)	QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none">• Air & Water Treatment Equipment• Amusement & Gaming• Audio/Video Equipment• Boilers• Cable Assemblies• Control Panels• Control Equipment• Door, Drapery, Gate Louver, & Window Operators & Systems• Electric Vehicle Charging Equipment• Electronic Entertainment• Elevator Door Components• Enclosures for Electrical Equipment• Energy management Equipment & Accessories• Farm Equipment• Gas Fired Appliances• General Household• Generators• Hazardous Location Equipment• Heating & Cooling Equipment• Household Products Controls• Hydromassage Bathtub & Spa Appliances	Scheme Type 1B, 3 or 5

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• Electrical Products (Electrical Safety)	• QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none">• Industrial Control Equipment• Information Technology & Office Equipment• Laboratory Equipment• Lifts & Elevating Equipment• Lights (Luminaires & Signs)• Machine Tools & Equipment• Measuring & Measurement Equipment• Medical & Diagnostic Devices• Medical Equipment• Panel Boards• Portable Tools• Power Outlets & Modules• Power Supplies• Process Control Equipment• Pumps & Motor Operated Appliances• Refrigerators & Freezers• Safety Transformers• Spas, Hot Tubs, & Swimming Pool Equipment & Components• Temperature Indicating & Regulation Equipment• Transfer Switch Equipment• Wired Cabinets	Scheme Type 1B, 3 or 5

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Building and Construction Materials – Fire Protection	QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none"> • Building Materials Combustibility • Fire Resistant Products and Components • Access Door Frame and Damper Assemblies • Doors and Frames, including associated hardware • Windows, Glass, and Frames • Fire Stop Systems • Fixtures for Installation in Fire Rated constructions • Roof Covering Systems • Roof/Ceiling, Floor/Ceiling, Beam and Column Assemblies • Smoke Control Door Assemblies • Security Fire Door and Frame Assemblies • Walls and Wall Assemblies • Components for Wall Assemblies • Cladding Systems, Including Exterior Insulation and Finish Systems (EIFS) 	<p>Scheme Type 1B, 3 or 5</p>
Building and Construction Materials – Manufactured Wood Products	QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none"> • Building Panels • Columns • Open Web Trusses • Finger Jointed Machine Stress Rated Lumber • Miscellaneous Preservative Treated Wood • Prefabricated Joists • Foundation Materials • Structural Composite Lumber • Structural Glued-Laminated Timber • Wood Shakes and Shingles • Fire Retardant Treated Wood 	<p>Scheme Type 1B, 3 or 5</p>

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Building and Construction Materials – Plumbing Products	QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none"> • Plumbing Fixtures • Plumbing Fittings and Accessories • Pipe, Tubing and Hose 	Scheme Type 1B, 3 or 5
Building and Construction Materials - WaterSense®	WaterSense® Product Certification System Version 2.1
<ul style="list-style-type: none"> • Flushometer-Valve Toilets • High-Efficiency Flushing Urinals • High-Efficiency Lavatory Faucets • Tank-Type High-Efficiency Toilets • Showerheads 	Scheme Type 4
Building and Construction Materials – Building Products	QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none"> • Exterior Cladding Systems and Components • Vapor Barriers, Waterproofing and membranes • Windows, Doors, Frames and Associated Components • Roofing, Ceiling and Floor Products and Materials • Safety Glazing • Thermal Insulation Products • Railings and Guards • Insulated Wall Panels and Systems • Adhesives and Fasteners • Steel Studs, Structural and Non-Structural 	Scheme Type 1B, 3 or 5
Prefabricated Structures	QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none"> • Trailer and Park Models • Recreational Vehicles 	Scheme Type 1B, 3 or 5
Prefabricated Structures	QAI Listing Program QSP 7.6.2, Procedure for Certification of Prefabricated Building Modules and Panels
<ul style="list-style-type: none"> • Prefabricated Buildings 	Scheme Type 1B, 3 or 5

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Solar Heating	QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none">• Solar Thermal (glazed, unglazed, and concentrating) Collectors• Solar Thermal Water heating systems	Scheme Type 1B, 3 or 5
Solid Fuels Products	QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none">• Chimneys, Shafts, Ducts• Central heating systems• Indoor/Outdoor Cooking ranges, working tables, frills, barbecues, ovens and similar appliances• Solid fuel heaters, fireplaces, stoves and similar appliances	Scheme Type 1B, 3 or 5
Gas Equipment	QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none">• Gas fuel burners Chimneys, Shafts, Ducts• Indoor/Outdoor Cooking ranges, working tables, grills, barbecues, ovens and similar appliances• Gas Heaters, Fireplaces, Inserts, and Hearth products• Outdoor decorative gas appliances• Camping Equipment	Scheme Type 1B, 3 or 5

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Energy Performance	QAI Listing Program QSP 7.6-1 Procedure for General Listing/Certification
<ul style="list-style-type: none"> • Windows and Doors • Insulations • Camping Equipment and Camp-Sites • Central Heating systems • Chimneys, Shafts, & Ducts • Fireplaces, inserts, and hearth products • Gas Fuel Burners • Gas Heaters • Indoor/Outdoor Cooking ranges, working tables, grills, barbeques, ovens, and similar appliances • Outdoor decorative gas appliances • Soil fuel heaters, fireplaces, stoves, and similar appliances 	<p>Scheme Type 1B, 3 or 5</p>
<p>Code Evaluation – Building Products</p>	<p>QAI Evaluation Program, QSP 7.6.5 – Procedure for Code Evaluation Report <i>Code Evaluation Reports (CER) are written to demonstrate compliance of building products and materials with the International Building Code (IBC) section 1703.4.2 or alternative solutions as defined in section A-1.2.1.1(1)(b) of the National Building Code of Canada. Evaluations of building products and materials may be performed following model codes such as the international family of codes published by the International Code Council (IBC, IRC, IFC, IMC, IECC, etc.) and/or the National Building Code of Canada, or other state / local codes that have been adopted based on the aforementioned model codes such as, but not limited to, the Florida Building Code, California Building Code, and City of LA Building Code. Evaluations may include fire protection, structural performance, seismic and vibration performance, environmental protection, acoustical performance, electrical safety, and electromagnetic compatibility.</i></p>

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<ul style="list-style-type: none"> • Fasteners and connection plates • Adhesives • Coatings - fire protection • Interior Finishes • Tiles • Building foundations • Steel studs, structural and non-structural • Railings and guards • Sheathing, boards, and panels • Deck boards and coverings • Floor, ceiling and staircase products and materials • Wall and partition assemblies • Insulated wall panels and systems • Structural insulated panels (SIPs) • Prefabricated structures and assemblies • Waterproofing / Dampproofing membranes and coatings 	<p>Type 3 or 5</p>
<p>Code Evaluation – Building Products</p>	<p>QAI Evaluation Program, QSP 7.6.5 – Procedure for Code Evaluation Report <i>Code Evaluation Reports (CER) are written to demonstrate compliance of building products and materials with the International Building Code (IBC) section 1703.4.2 or alternative solutions as defined in section A-1.2.1.1(1)(b) of the National Building Code of Canada. Evaluations of building products and materials may be performed following model codes such as the international family of codes published by the International Code Council (IBC, IRC, IFC, IMC, IECC, etc.) and/or the National Building Code of Canada, or other state / local codes that have been adopted based on the aforementioned model codes such as, but not limited to, the Florida Building Code, California Building Code, and City of LA Building Code. Evaluations may include fire protection, structural performance, seismic and vibration performance, environmental protection, acoustical performance, electrical safety, and electromagnetic compatibility.</i></p>

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<ul style="list-style-type: none"> • Vapor barriers, air barriers, and membranes • Thermal and moisture barrier underlayments and systems • Thermal insulation • Thermal and sound insulating materials and systems • Exterior cladding systems, components, and facades • Roofing products and accessories • Roofing underlayments • Solar Panel systems, mounts & accessories • Windows, doors, frames, and associated hardware / components • Curtain walls, systems and components • Skylights and sloped glazing • Exterior protective openings • Safety glazing • Fire stop materials and systems • Fire-resistance rated construction • Chimneys, shafts, ducts • Grease duct and other HVAC enclosure assemblies • Smart building technology products and systems • Modular Housing systems and components • Building accessories • Caulking & sealants 	<p>Type 3 or 5</p>
<p>Code Evaluation – Manufactured Wood Products</p>	<p>QAI Evaluation Program, QSP 7.6.5 – Procedure for Code Evaluation Report <i>Code Evaluation Reports (CER) are written to demonstrate compliance of building products and materials with the International Building Code (IBC) section 1703.4.2 or alternative solutions as defined in section A-1.2.1.1(1)(b) of the National Building Code of Canada. Evaluations of building products and materials may be performed following model codes such as the international family of codes published by the International Code Council (IBC, IRC, IFC, IMC, IECC, etc.) and/or the National Building Code of Canada, or other state / local codes that have been adopted based on the aforementioned model codes such as, but not limited to, the Florida Building Code, California Building Code, and City of LA Building Code. Evaluations may include fire protection, structural performance, seismic and vibration performance, environmental protection, acoustical performance, electrical safety, and electromagnetic compatibility.</i></p>

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<ul style="list-style-type: none"> • Building Panels • Columns • Open Web Trusses • Preservative treated wood • Prefabricated joists • Structural composite wood products • Glued-Laminated Timber • Cross-Laminated Timber • Wood and composite wood roofing and siding products • Wood-based structural members and panels • Fire Retardant Treated Wood Products 	<p>Type 3 or 5</p>
<p>Code Evaluation – Materials</p>	<p>QAI Evaluation Program, QSP 7.6.5 – Procedure for Code Evaluation Report <i>Code Evaluation Reports (CER) are written to demonstrate compliance of building products and materials with the International Building Code (IBC) section 1703.4.2 or alternative solutions as defined in section A-1.2.1.1(1)(b) of the National Building Code of Canada. Evaluations of building products and materials may be performed following model codes such as the international family of codes published by the International Code Council (IBC, IRC, IFC, IMC, IECC, etc.) and/or the National Building Code of Canada, or other state / local codes that have been adopted based on the aforementioned model codes such as, but not limited to, the Florida Building Code, California Building Code, and City of LA Building Code. Evaluations may include fire protection, structural performance, seismic and vibration performance, environmental protection, acoustical performance, electrical safety, and electromagnetic compatibility.</i></p>
<ul style="list-style-type: none"> • Plastics in general • Fiber reinforced polymers (FRP) • Wood-based products • Steel, aluminum and other metals • Concrete and concrete products • Masonry • Cement • Fiber reinforced cement • Gypsum and plaster • Mineral materials and products • Ceramic • Terracotta, clay, and other earthworks • Glass • Binders and sealing materials • Composite materials 	<p>Type 3 or 5</p>

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Key Location: The certification activities conducted by QAI Laboratories at the following locations are also included in this scope of accreditation: 8385 White Oak Avenue, Rancho Cucamonga, CA

Notes:

1. *The product certification used most closely resembles a product certification scheme type as described in ISO/IEC 17067 (2013), Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes.*
 - a. **Type 1b:** *This scheme type involves the certification of a whole batch of products, following selection and determination as specified in the scheme. The proportion to be tested, which can include testing of all the units in the batch (100% testing), would be based, for example, on the homogeneity of the items in the batch and the application of a sampling plan, where appropriate. If the outcome of the determination, review and decision is positive, all items in the batch may be described as certified and may have a mark of conformity affixed, if that is included in the scheme.*
 - b. **Type 3:** *The surveillance part of this scheme involves periodically taking samples of the product from the point of production and subjecting them to determination activities to check that items produced subsequent to the initial attestation fulfil the specified requirements. The surveillance includes periodic assessment of the production process.*

This scheme does not provide any indication of the impact the distribution channel plays on conformity. When serious nonconformities are found, the opportunity may exist to resolve them before widespread market distribution occurs
 - c. **Type 4:** *The surveillance part of this scheme allows for the choice between periodically taking samples of the product from the point of production, or from the market, or from both, and subjecting them to determination activities to check that items produced subsequent to the initial attestation fulfil the specified requirements. The surveillance includes periodic assessment of the production process.*

This scheme can both indicate the impact of the distribution channel on conformity and provide a premarket mechanism to identify and resolve serious nonconformities. Significant duplication of effort may take place for those products whose conformity is not affected during the distribution process.
 - d. **Type 5:** *The surveillance part of this scheme allows for the choice between periodically taking samples of the product either from the point of production, or from the market, or from both, and subjecting them to determination activities to check that items produced subsequent to the initial attestation fulfil the specified requirements. The surveillance includes periodic assessment of the production process, or audit of the management system, or both. The extent to which the four surveillance activities are conducted may be varied for a given situation, as defined in the scheme. If the surveillance includes audit of the management system, an initial audit of the management system will be needed.*