Miami-Dade County, Florida
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISON
PRODUCT CONTROL SECTION
11805 S.W. 26 Street-Room 208
Miami, Florida 33175-2474
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Laboratory Certificate

MIAMI-DADE COUNTY APPROVED

This certifies that Intertek Testing Services Shenzhen Ltd.,(Shanghai Fengxian Branch) located at Plant 5 & 11 (4F) No. 6958 Daye Road, Fengxian District, Shanghai 201405, People's Republic of China is an approved Testing Laboratory in accordance with Miami-Dade County Department of Regulatory and Economic Resources and Protocol TAS 301-94, and is Certified to perform the following tests:

ASTM E1886	TAS 202
ASTM E1996	TAS 203
TAS 201	ASTM F588
	International Accreditation Service
	Certificate TL-394

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Department of Regulatory and Economic Resources per TAS 301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

Vinu J. Abraham, P.E.; Tyler Westerling, P.E.; Michael Weigner, P.E.; Daniel Culbert, P.E.

This Certification and Registration Approved: **November 20, 2025**
This Certification and Registration Expires : **June 18, 2030**

Certification No. : **25-1029.01** *Renews: 20-0831.16*

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
Product Control Section

Americo Segura, M.S., CGC
Quality Assurance Unit Supervisor
Product Control Section

The Miami-Dade County Department of Regulatory and Economic Resources reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS 301-94.

CERTIFICATE OF ACCREDITATION

This is to attest that

INTERTEK TESTING SERVICES SHENZHEN LTD. SHANGHAI FENGXIAN BRANCH

PLANT 5 & 11(4F), NO 6958 DAYE ROAD, FENGXIAN DISTRICT
SHANGHAI 201405, CHINA

Testing Laboratory TL-394

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date March 11, 2025

International Accreditation Service
Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

INTERTEK TESTING SERVICES SHENZHEN LTD. SHANGHAI FENGXIAN BRANCH

www.intertek.com

Contact Name Stanley Zhou **Contact Phone** +86-21-61136116

Accredited to ISO/IEC 17025:2017 *Effective Date March 11, 2025*

Conformity Specifications	
ASTM E329	Standard specification for agencies engaged in construction inspection, testing, or special inspection (sections 8-12)
ASTM E699	Standard specification for agencies involved in testing, quality assurance and evaluating of manufactured building components (part A)
Acoustical	
AS 1191	Acoustics - method for laboratory measurement of airborne sound transmission insulation of building elements
AS/NZS 1276.1	Acoustics - Rating of sound insulation in buildings and of building elements, Part 1: Airborne sound insulation
ASTM C423	Standard test method for sound absorption and sound absorption coefficients by the reverberation room method
ASTM E90	Standard test method for laboratory measurement of airborne sound transmission loss of building partitions and elements
ASTM E336	Standard test method for measurement of airborne sound attenuation between rooms in buildings
ASTM E413	Classification for rating sound insulation
ASTM E492	Standard test method for laboratory measurement of impact sound transmission through floor-ceiling assemblies using the tapping machine
ASTM E989	Standard classification for determination of impact insulation class (IIC)
ASTM E1332	Standard classification for rating outdoor-indoor sound attenuation
ASTM E2179	Standard test method for laboratory measurement of the effectiveness of floor coverings in reducing impact sound transmission through concrete floors
ISO 354	Acoustics -- measurement of sound absorption in a reverberation room
ISO 717-1	Acoustics -- rating of sound insulation in buildings and of building elements -- part 1: airborne sound insulation

ISO 717-2	Acoustics -- rating of sound insulation in buildings and of building elements -- part 2: impact sound insulation
ISO 3822-1	Acoustics -- laboratory tests on noise emission from appliances and equipment used in water supply installations Part 1: Method of measurement
ISO 3822-2	Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations Part 2: Mounting and operating conditions for draw-off taps and mixing valves
ISO 3822-3	Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations Part 3: Mounting and operating conditions for in-line valves and appliances
ISO 3822-4	Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations Part 4: Mounting and operating conditions for special appliances
ISO 10848	Acoustics -- laboratory measurement of the flanking transmission of airborne and impact sound between adjoining rooms
ISO 11654	Acoustics -- sound absorbers for use in buildings -- rating of sound absorption
ISO 10140-1	Acoustics -- laboratory measurement of sound insulation of building elements -- part 1: application rules for specific products
ISO 10140-2	Acoustics -- laboratory measurement of sound insulation of building elements -- part 2: measurement of airborne sound insulation
ISO 10140-3	Acoustics -- laboratory measurement of sound insulation of building elements -- part 3: measurement of impact sound insulation
ISO 10140-4	Acoustics -- laboratory measurement of sound insulation of building elements -- part 4: measurement procedures and requirements
ISO 10140-5	Acoustics -- laboratory measurement of sound insulation of building elements -- part 5: requirements for test facilities and equipment
EN 16205	Laboratory measurement of walking noise on floors
CMT	
AS 2908.2	Cellulose-cement products - flat sheet
AS/NZS 2588	Gypsum plasterboard
ASTM C1178/C1178M	Standard specification for coated glass mat water-resistant gypsum backing panel
ASTM C1186	Standard specification for flat fiber-cement sheets
ASTM C1278/C1278M	Standard specification for fiber-reinforced gypsum panel
ASTM C1396/C1396M	Standard specification for gypsum board

EN 12467	Fibre-cement flat sheets - product specification and test methods (except fire reaction)
ICC ES AC386	Fiber-reinforced magnesium-oxide-based sheets
Environmental	
AAMA 2603	Voluntary specification, performance requirements and test procedures for pigmented organic coatings on aluminum extrusions and panels
AAMA 2604	Voluntary specification, performance requirements and test procedures for high performance organic coatings on aluminum extrusions and panels
AAMA 2605	Voluntary specification, performance requirements and test procedures for superior performing organic coatings on aluminum extrusions and panels
ASTM B117	Standard practice for operating salt spray (fog) apparatus
ASTM D2565	Standard practice for xenon-arc exposure of plastics intended for outdoor applications
ASTM D5894	Standard practice for cyclic salt fog/UV exposure of painted metal, (alternating exposures in a fog/dry cabinet and a UV/condensation cabinet)
ASTM E96/E96M	Standard test methods for water vapor transmission of materials
ASTM G154	Standard practice for operating fluorescent ultraviolet (UV) lamp apparatus for exposure of nonmetallic materials
ASTM G155	Standard practice for operating xenon arc lamp apparatus for exposure of materials
Fire ***(except horizontal assemblies of exposed area more than 1.5 m by 1.5 m in fire resistance)***	
AS 1530.1	Methods for fire tests on building materials, components and structures Part 1: Combustibility test for materials
AS 1530.4	Methods for fire tests on building materials, components and structures - fire-resistance test of elements of construction
AS 1530.7	Methods for fire tests on building materials, components and structures - Smoke control assemblies - Ambient and medium temperature leakage test procedure
AS 1530.8.1	Methods for fire tests on building materials, components and structures Part 8.1: Tests on elements of construction for buildings exposed to simulated bushfire attack - Radiant heat and small flaming sources
AS 1530.8.2	Methods for fire tests on building materials - components and structures – part 8.2: test on elements exposed to simulated bushfire attack – large flaming sources (except decks and sub-floor spaces)
AS 1905.1	Components for the protection of openings in fire-resistant walls - fire-resistant doorsets

ASTM D635	Standard test method for rate of burning and/or extent and time of burning of plastics in a horizontal position
ASTM D1929	Standard Test Method for Determining Ignition Temperature of Plastics
ASTM D2863	Standard test method for measuring the minimum oxygen concentration to support candle-like combustion of plastics (oxygen index)
ASTM D3801	Standard Test Method for Measuring the Comparative Burning Characteristics of Solid Plastics in a Vertical Position
ASTM E84	Standard test method for surface burning characteristics of building materials (NFPA 255, UL 723, CAN/ULCS102, UBC Standard 8-1)
ASTM E108	Standard test methods for fire tests of roof coverings
ASTM E119	Standard test methods for fire tests of building construction and materials
ASTM E136	Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
ASTM E648	Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
ASTM E662	Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
ASTM E814	Standard test method for fire tests of penetration firestop systems
ASTM E970	Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source
ASTM E1399/E1399M	Standard Test Method for Cyclic Movement and Measuring the Minimum and Maximum Joint Widths of Architectural Joint Systems
ASTM E1966	Standard Test Method for Fire-Resistive Joint Systems
ASTM E2226	Standard practice for application of hose stream
ASTM E2652	Test Method for Behavior of Materials in a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750 °C
ASTM E2768	Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test)
BS 476-4	Fire tests on building materials and structures - Part 4: Non-combustibility test for materials
BS 476-11	Fire tests on building materials and structures - Part 11: Method for assessing the heat emission from building materials
BS 476-20	Fire tests on building materials and structures – method for determination of the fire resistance of elements of construction (general principles)

BS 476-21	Fire tests on building materials and structures – method for determination of the fire resistance of loadbearing elements of construction
BS 476-22	Fire tests on building materials and structures - method for determination of the fire resistance of non-loadbearing elements of construction
BS 476-31.1	Fire Tests on Building Materials and Structures Part 31: Methods for Measuring Smoke Penetration through Door sets and Shutter Assemblies Section 31.1: Method of Measurement under Ambient Temperature Conditions
BS 5234-2	Partitions (including matching linings) — Part 2: Specification for performance requirements for strength and robustness including methods of test
BS 8524-1	Active fire curtain barrier assemblies – Part 1: Specification
CAN/ULC-S 101	Standard methods of fire endurance tests of building construction and materials
CAN/ULC-S 104	Standard method for fire tests of door assemblies
CAN/ULC-S 106	Standard Method for Fire Tests of Window and Glass Block Assemblies
CAN/ULC-S 115	Standard Method of Fire Tests of Firestop Systems
DIN 4102 Part 2	Behaviour of Building Materials and Components in Fire - Building Components - Definitions, Requirements and Tests
EN 1363-1	Fire resistance tests – part 1: general requirements
EN 1363-2	Fire resistance tests - Part 2: Alternative and additional procedures
EN 1364-1	Fire resistance test for non-loadbearing elements – part 1: walls
EN 1364-2	Fire resistance tests for non-loadbearing elements - Part 2: Ceilings
EN 1364-3	Fire resistance tests for non-loadbearing elements - Part 3: Curtain walling - Full configuration (complete assembly)
EN 1364-4	Fire resistance tests for non-loadbearing elements - Part 4: Curtain walling - Part configuration
EN 1364-5	Fire resistance tests for non-loadbearing elements - Part 5: Air transfer grilles
EN 1365-1	Fire resistance tests for loadbearing elements – part 1: walls
EN 1365-2	Fire resistance tests for loadbearing elements - Part 2: Floors and roofs
EN 1366-3	Fire resistance tests for service installations - Part 3: Penetration Seals
EN 1366-4	Fire resistance tests for service installations-Part 4: Linear joint seals
EN 1634-1	Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware – part 1: fire resistance test for door and shutter assemblies and openable windows

EN 1634-2	Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware Part 2: Fire resistance characterization test for elements of building hardware
EN 1634-3	Fire resistance tests for door and shutter assemblies. Smoke control doors and shutters
EN 12101-1	Smoke and heat control systems - Part 1: Specifications for smoke barriers - Requirements and test methods
EN 13501-1	Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests
EN 13501-2	Fire classification of construction products and building elements – part 2: classification using data from fire resistance tests, excluding ventilation services
EN 13823	Reaction to fire tests for building products - Building products excluding flooring exposed to the thermal attack by a single burning item
EN 14470-1	Fire safety storage cabinets - part 1: safety storage cabinets for flammable liquids
EN 14470-2	Fire safety storage cabinets - Part 2: Safety cabinets for pressurised gas cylinders
EN 15659	Secure storage units - Classification and methods of test for resistance to fire - Light fire storage units
EN 16034	Pedestrian doorsets, industrial, commercial, garage doors and openable windows-product standard, performance characteristics- Fire resisting and/or smoke control characteristics
FTP Code Part 3	Test for “A”,”B” and “F” class divisions
FTP Code Part 4	Test for fire door control systems
IEC 60695-11-10	Fire hazard testing Part 11-10: Test flames 50 W horizontal and vertical flame test method
IEC 60695-11-20	Fire hazard testing Part 11-20: Test flames 500 W flame test method
IEC 61730-2	Photovoltaic (PV) module safety qualification - part 2: requirements for testing (section 10.17/10.18)
IMO/FTP Code Part 1	IMO/FTP Code Part 1 Non-combustibility test
ISO 834-1	Fire-resistance tests -- elements of building construction -- part 1: general requirements
ISO 834-4	Fire-resistance tests -- elements of building construction -- part 4: specific requirements for loadbearing vertical separating elements
ISO 834-8	Fire-resistance tests -- elements of building construction -- part 8: specific requirements for non-loadbearing vertical separating elements

ISO 1182	Reaction to fire tests for products-Non-combustibility test
ISO 1716	Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value)
ISO 3008	Fire-resistance tests -- door and shutter assemblies
ISO 3009	Fire-resistance tests -- elements of building construction -- glazed elements
ISO 4589-2	Plastics-Determination of burning behaviour by oxygen index Part 2: Ambient-temperature test
ISO 5925-1	Fire tests-Smoke-control door and shutter assemblies Part 1: Ambient- and medium-temperature leakage tests
ISO 9239-1	Reaction to fire tests for floorings Part 1: Determination of the burning behaviour using a radiant heat source
AS ISO 9239.1	Reaction to fire tests for floorings Part 1: Determination of the burning behaviour using a radiant heat source
ISO 11925-2	Reaction to fire tests — Ignitability of products subjected to direct impingement of flame Part 2: Single-flame source test
MS 1073: Part 2	Specification for fire resistant doorsets part 2: methods for determination of the fire resistance - general principles
MS 1073: Part 3	Specification for fire resistance doorsets: part 3: methods for determination of the fire resistance - type of doorsets
NFPA 105	Standard for smoke door assemblies and other opening protectives
NFPA 251	Standard methods of tests of fire resistance of building construction and materials
NFPA 252	Standard methods of fire tests of door assemblies
NFPA 253	Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
NFPA 257	Standard on fire test for window and glass block assemblies
NFPA 288	Standard Methods of Fire Tests of Horizontal Fire Door Assemblies Installed in Horizontal Fire Resistance-Rated Assemblies
NZS 4520	Fire-resistant doorsets
SS 332	Specification for fire doors
UBC 7-1	Fire tests of building construction and materials
UL 9	Standard for fire tests of window assemblies
UL 10B	Standard for fire tests of door assemblies

UL 10C	Standard for positive pressure fire tests of door assemblies
UL 72	Standard for tests for fire resistance of record protection equipment
UL 94	Standard for safety Tests for flammability of plastic materials for parts in devices and appliances Part 7 Horizontal burning test
UL 263	Standard for fire tests of building construction and materials
UL 514C	Standard for Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers
UL 555	Fire Dampers
UL 790	Standard for standard test methods for fire tests of roof coverings
UL 1479	Fire Tests of Penetration Firestops
UL 1703	Standard for flat-plate photovoltaic modules and panels
UL 1784	Air leakage tests of door assemblies and other opening protectives
UL 2079	Tests for Fire Resistance of Building Joint Systems
UL 61730-2	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing (section 10.17/10.18)
Physical	
AAMA 501.2	Quality assurance and diagnostic water leakage field check of installed storefronts, curtain walls and sloped glazing systems
AAMA 1701.2	Primary window & sliding glass door for utilization in manufactured housing
AAMA 1702.2	Voluntary Standard for Utilization in Manufactured Housing for Swinging Exterior Passage Doors
AAMA 1704	Voluntary Standard Egress Window Systems for Utilization in Manufactured Housing
ANSI/BHMA A156.1	Butts and hinges
ANSI/BHMA A156.2	Bored and Preassembled Locks and Latches
ANSI/BHMA A156.3	Exit devices
ANSI/BHMA A156.4	Door controls-closers
ANSI/BHMA A156.13	Mortise Locks & Latches
ANSI/BHMA A156.18	Material and finishes
ANSI/BHMA A156.21	Thresholds
ANSI/BHMA A156.22	Door gasketing and edge seal systems

ANSI/BHMA A156.36	Auxiliary Locks
ASTM C473	Standard test methods for physical testing of gypsum panel products
ASTM C794	Standard test method for adhesion-in-peel of elastomeric joint sealants
ASTM C1185	Standard test methods for sampling and testing non-asbestos fiber-cement flat sheet, roofing and siding shingles, and clapboards
ASTM D226/D226M	Standard specification for asphalt-saturated organic felt used in roofing and waterproofing (table 1 only)
ASTM D412	Standard test methods for vulcanized rubber and thermoplastic elastomers—tension
ASTM D570	Standard test method for water absorption of plastics
ASTM D696	Standard test method for coefficient of linear thermal expansion of plastics between −30°C and 30°C with a vitreous silica dilatometer
ASTM D751	Standard test methods for coated fabrics
ASTM D792	Standard test methods for density and specific gravity (relative density) of plastics by displacement
ASTM D828	Standard test method for tensile properties of paper and paperboard using constant-rate-of-elongation apparatus
ASTM D903	Standard test method for peel or stripping strength of adhesive bonds
ASTM D1037	standard test methods for evaluating properties of wood-base fiber and particle panel materials (sections 14, 15 and 21 only)
ASTM D1204	Standard test method for linear dimensional changes of non-rigid thermoplastic sheeting or film at elevated t-temperature
ASTM D1761	Standard Test Method for Mechanical Fasteners in Wood and Wood-Based Materials
ASTM D1970/D1970M	Standard specification for self-adhering polymer modified bituminous sheet materials used as steep roofing underlayment for ice dam protection
ASTM D2394	Standard test methods for simulated service testing of wood and wood-base finish flooring
ASTM D2395	Standard test methods for density and specific gravity (relative density) of wood and wood-based materials
ASTM D2523	Standard practice for testing load-strain properties of roofing membranes
ASTM D4073	Standard test method for tensile-tear strength of bituminous roofing membranes
ASTM D4442	Standard test methods for direct moisture content measurement of wood and wood-based materials

ASTM D4869/D4869M	Standard specification for asphalt-saturated organic felt underlayment used in steep slope roofing
ASTM D4933	Standard guide for moisture conditioning of wood and wood-based materials
ASTM D4977/D4977M	Standard test method for granule adhesion to mineral surfaced roofing by abrasion
ASTM D5034	Standard test method for breaking strength and elongation of textile fabrics (grab test)
ASTM D8257/D8257M	Standard Specification for Mechanically Attached Polymeric Roof Underlayment Used in Steep Slope Roofing
ASTM E283	Standard test method for determining rate of air leakage through exterior windows, curtain walls, and doors under specified pressure differences across the specimen
ASTM E331	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by uniform static air pressure difference
ASTM E661	Standard Test Method for Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads
ASTM E779	Standard test method for determining air leakage rate by fan pressurization
ASTM E935	Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings
ASTM E1827	Standard Test Methods for Determining Airtightness of Buildings Using an Orifice Blower Door
ASTM F1066	Standard specification for vinyl composition floor tile
ASTM F1303	Standard specification for sheet vinyl floor covering with backing
ASTM F1344	Standard specification for rubber floor tile
ASTM F1700	Standard specification for solid vinyl floor tile
ASTM F1859	Standard specification for rubber sheet floor covering without backing
ASTM F1861	Standard specification for resilient wall base
ASTM F1913	Standard specification for vinyl sheet floor covering without backing
ASTM F2169	Standard specification for resilient stair treads
ASTM F3261	Standard Specification for Resilient Flooring in Modular Format with Rigid Polymeric Core
BS EN 14411	Definitions, classification, characteristics, evaluation of conformity and marking (Except Resistance to Deep Abrasion, Linear Thermal Expansion, Resistance to Crazing, Frost Resistance, Impact Resistance, Lead and Cadmium Release)

EN 179	Building hardware - Emergency exit devices operated by a lever handle or push pad, for use on escape routes -Requirements and test methods
EN 424	Resilient floor coverings-Determination of the effect of simulated movement of a furniture leg
EN 425	Resilient and laminate floor coverings - castor chair test
EN 438-2	High-pressure decorative laminates (HPL) - sheets based on thermosetting resins (usually called laminates) - part 2: determination of properties
EN 1026	Windows and doors - air permeability - test method
EN 1027	Windows and doors - water tightness - test method
EN 1081	Resilient, laminate and modular multilayer floor covering – Determination of the electrical resistance (test methods referenced in section 6)
EN 1125	Building hardware - Panic exit devices operated by a horizontal bar, for use on escape routes - Requirements and test methods
EN 1154	Building Hardware-Controlled door closing devices-Requirements and test methods
EN 1815	Resilient and laminate floor coverings – Assessment of static electrical propensity (test methods referenced in section 7.2)
EN 1906	Building Hardware-Lever handles and knob furniture-Requirements and test methods
EN 1935	Building Hardware-Single-axis hinges-Requirements and test methods
EN 12207	Windows and doors - air permeability - classification
EN 12208	Windows and doors – water tightness - classification
EN 12209	Building Hardware-Locks and Latches- Mechanically Operated Locks, Latches and Locking Plates-Requirements and test methods
EN 13329	Laminate floor coverings — Specifications, requirements and test methods
EN 14846	Building hardware - Locks and latches – Electromechanically operated locks and striking plates - Requirements and test methods
EN 14877	Synthetic surfaces for outdoor sports areas - specification
EN 14904	Surfaces for sports areas - indoor surfaces for multi-sports use - specification
EN 16094	Laminate floor coverings-Test method for the determination of micro-scratch resistance
EN 16511	Modular mechanical locked floor coverings (MMF) —Specification, requirements and test method for multilayer modular panels for floating installation

GB/T 15227	Test method of air permeability - water tightness - wind load resistance performance for curtain walls
ICC ES AC38	Water-resistive barriers (test methods referenced in sections 3.1, 3.3, 3.4, 4.0 and 5.2)
ICC ES AC48	(test methods referenced in sections 3.0 (except section 3.1.2.6) and 4.0 (except section 4.6))
ICC ES AC148	Flexible flashing materials (test methods referenced in sections 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7 and 4.8)
ICC ES AC174	Deck board span ratings and guardrail systems (guards and handrails) (test methods referenced in sections 3.0, except sections 3.9 and 3.10) 4.0, 5.1 and 5.2
ICC ES AC188	Roof underlayments (test methods referenced in table 1, except cycling and elongation)
ICC ES AC207	Polypropylene roof underlayments (test methods referenced in sections 3.8 and 4.0, except section 4.8)
ICC ES AC273	Handrails and guards (test methods referenced in section 4.0)
ISO 13006	Ceramic tiles -- Definitions, classification, characteristics and marking (Except Resistance to Deep Abrasion, Linear Thermal Expansion, Resistance to Crazing, Frost Resistance, Impact Resistance, Lead and Cadmium Release)
ISO 23999	Resilient floor coverings -- determination of dimensional stability and curling after exposure to heat
ISO 24334	Laminate floor coverings -- determination of locking strength for mechanically assembled panels
ISO 24336	Laminate floor coverings -- determination of thickness swelling after partial immersion in water
ISO 24337	Laminate floor coverings -- determination of geometrical characteristics
ISO 24343-1	Resilient and laminate floor coverings -- determination of indentation and residual indentation -- part 1: residual indentation
NALFA LF 01	Laminate Flooring Specifications and test methods
NFPA 2001	Standard on clean agent fire extinguishing systems (Annex C)
WDMA TM-7	Test method for determining the physical endurance of wood doors & associated hardware connections under accelerated operating conditions
Structural	
1997 UBC 24-2	Safety glazing

AAMA 101	Specification for windows, doors, and skylights (sections 5.3.1, 5.3.2, 5.3.3, 5.3.4, and 5.3.5)
AAMA 501	Methods of test for exterior walls
AAMA 501.1	Standard test method for water penetration of windows, curtain walls and doors using dynamic pressure
AAMA 501.4	Recommended static test method for evaluating curtain wall and storefront systems subjected to seismic and wind induced interstory drifts
AAMA 501.5	Test method for thermal cycling of exterior walls
AAMA 501.7	Recommended static test method for evaluating windows, window wall, curtain wall and storefront systems subjected to vertical inter-story movements
AAMA 501.9	Surface Temperature Assessment for Condensation Evaluation of Exterior Wall Systems
AAMA 508	Voluntary test method and specification for pressure equalized rain screen wall cladding systems
AAMA 514	Standard Test Method for Static Loading and Impact on Exterior Shading Devices
AAMA 901	Voluntary specification for rotary & linear operators in window applications
AAMA 910	Voluntary "Life Cycle" Specifications and Test Methods for AW Class Architectural Windows and Doors
AAMA 920	Specification for Operating Cycle Performance of Active Side-Hinged Exterior Door Slabs
AAMA 1304	Voluntary Specification for Determining Forced Entry Resistance of Side-Hinged Door Systems
AAMA/WDMA/CSA 101/I.S.2/A440	North American fenestration standard/specification for windows, doors, and skylights
ANSI/SDI A250.4	Test procedure and acceptance criteria for physical endurance for steel doors, frames and frame anchors
ANSI/WCMA A100.1	Standard for safety of corded window covering products
ANSI Z97.1	Standard for safety glazing materials used in buildings -safety performance specifications and methods of test (sections 4 (except section 4.7.2) and 5 (except section 5.4.1.1))
AS 1649	Timber-Methods of test for mechanical fasteners and connectors-Basic working loads and characteristic strengths. Section 2.1 and 2.2
AS 2047	Windows in buildings – selection and installation
AS 2271	Plywood and block board for exterior use (except formaldehyde emission)

AS 4284	Testing of building facades
AS 6669	Plywood - Formwork (except formaldehyde emission)
AS/NZS 1170.2	Australian/New Zealand Standard -Structural design actions Part 2: Wind actions
AS/NZS 1860.1	Particleboard flooring - specifications (except formaldehyde emission and fungicide treatment)
AS/NZS 2098.1	Methods of test for veneer and plywood Method 1: Moisture content for veneer and plywood (oven-dry method)
AS/NZS 2098.2	Methods of test for veneer and plywood Method 2: Bond quality of plywood
AS/NZS 2208	Safety glazing materials in buildings
AS/NZS 2269	Plywood- structural
AS/NZS 2269.0	Plywood- structural- part 0: specifications
AS/NZS 2269.1	Plywood - structural –determination of structural properties – part 1: test methods
AS/NZS 2269.2	Plywood - structural - determination of structural properties – part 2: evaluation methods (except immunization and preservative treatment, and formaldehyde emissions)
AS/NZS 4063	Timber - stress-graded - in-grade strength and stiffness evaluation (except tension and compression)
AS/NZS 4063.1	Characterization of structural timber Part 1: Test method. Section 2.8
AS/NZS 4357.0	Structural laminated veneer lumber (LVL) Part 0: Specifications
AS/NZS 4357.2	Structural laminated veneer lumber (LVL) Part 2: Determination of structural properties-Test methods. Section 9, 10, 11, 16
AS/NZS 4420.1	Windows, external glazed, timber and composite doors – Methods of test Part 1: Test sequence, sampling and test methods
ASTM C158	Standard test methods for strength of glass by flexure (determination of modulus of rupture) (excluding the annex A2)
ASTM C297/C297M	Standard test method for flatwise tensile strength of sandwich constructions
ASTM C1199	Standard test method for measuring the steady-state thermal transmittance of fenestration systems using hot box methods
ASTM C1279	Standard test method for non-destructive photoelastic measurement of edge and surface stresses in annealed, heat-strengthened, and fully tempered flat glass

ASTM D256	Standard test methods for determining the izod pendulum impact resistance of plastics
ASTM D638	Standard test method for tensile properties of plastics
ASTM D648	Standard test method for deflection temperature of plastics under flexural load in the edgewise position
ASTM D695	Standard test method for compressive properties of rigid plastics
ASTM D790	Standard test methods for flexural properties of unreinforced and reinforced plastics and electrical insulating materials
ASTM D882	Standard test method for tensile properties of thin plastic sheeting
ASTM D953	Standard test method for bearing strength of plastics
ASTM D1781	Standard test method for climbing drum peel for adhesives
ASTM D2290	Standard test method for apparent hoop tensile strength of plastic or reinforced plastic pipe
ASTM D2344/D2344M	Standard test method for short-beam strength of polymer matrix composite materials and their laminates
ASTM D2915	Practice for sampling and data-analysis for structural wood and wood-based products
ASTM D4812	Standard test method for unnotched cantilever beam impact resistance of plastics
ASTM D6109	Standard test methods for flexural properties of unreinforced and reinforced plastic lumber and related products
ASTM D6110	Standard test method for determining the Charpy impact resistance of notched specimens of plastics
ASTM D6272	Standard test method for flexural properties of unreinforced and reinforced plastics and electrical insulating materials by four-point bending
ASTM D7032	Standard specification for establishing performance ratings for wood-plastic composite and plastic lumber deck boards, stair treads, guards, and handrails (except sections 4.8)
ASTM E8	Standard Test Methods for Tension Testing of Metallic Materials
ASTM E72	Standard test methods of conducting strength tests of panels for building construction
ASTM E330/E330M	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
ASTM E405	Standard test methods for wear testing rotary operators for windows

ASTM E546	Standard test method for frost/dew point of sealed insulating glass units
ASTM E547	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by cyclic static air pressure difference
ASTM E576	Standard test method for frost/dew point of sealed insulating glass units in the vertical position
ASTM E783	Standard test method for field measurement of air leakage through installed exterior windows and doors
ASTM E1105	Standard test method for field determination of water penetration of installed exterior windows, skylights, doors, and curtain walls, by uniform or cyclic static air pressure difference
ASTM E1233/E1233M	Standard test method for structural performance of exterior windows, doors, skylights, and curtain walls by cyclic air pressure differential
ASTM E1886	Standard test method for performance of exterior windows, curtain walls, doors, and impact protective systems impacted by missile(s) and exposed to cyclic pressure differentials
ASTM E1996	Standard specification for performance of exterior windows, curtain walls, doors, and impact protective systems impacted by windborne debris in hurricanes
ASTM F476	Standard test methods for security of swinging door assemblies
ASTM F588	Standard test methods for measuring the forced entry resistance of window assemblies, excluding glazing impact
ASTM F842	Standard test methods for measuring the forced entry resistance of sliding door assemblies, excluding glazing impact
ASTM F3059	Standard specification for fiber-reinforced polymer (FRP) gratings used in marine construction and shipbuilding
ASTM F3359	Standard Test Method for Determining Bending Yield Moment of Staples
BS 6206	Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings
BS EN 13120	Child safety requirements for internal blinds
BS EN 16433	Internal blinds - protection from strangulation hazards - test methods
BS EN 16434	Internal blinds - protection from strangulation hazards - requirements and test methods for safety devices
CAN CGSB-12.1	Tempered or laminated safety glass
CAN CGSB-12.2	Flat - clear sheet glass (except light transmittance)
CAN CGSB-12.3	Flat - clear float glass (except light transmittance)

CAN/CSA A440	Windows (sections 10.1, 10.2, 10.3, 10.4, and 10.13 only)
CAN/CSA-Z600	Safety of corded window covering products
CISCA 2016	Recommended test procedures for access floors
CPSC 16 CFR 1201	Commercial Practices - safety standard for architectural glazing materials
CSA A440S1	Canadian Supplement to AAMA/WDMA/ CSA 101/I.S.2/A440-17, North American Fenestration Standard/Specification for windows, doors, and skylights (Section 5.2, Section 5.3, Section 5.4 and Section 5.5)
CSA A440.2/A440.3	Fenestration energy performance (sections 5.2 and 7)
CWCT	Centre for Window and Cladding Technology-Standard test methods for building envelopes
CWCT Section 8.6	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Air permeability test
CWCT Section 8.7.1	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Water penetration resistance test (Static test method)
CWCT Section 8.7.2	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Water penetration resistance test (Dynamic aero engine test method)
CWCT Section 8.8	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Wind resistance tests
CWCT Section 8.9.1	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Hoze test
CWCT Section 8.9.2	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Spray bar test
CWCT Section 8.10	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Impact safety
CWCT Section 8.13.1	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Imapct - serviceability
CWCT Section 8.13.3	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Building movements/racking procedure (structural movement regime)
CWCT Section 8.13.4	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Thermal cycling regime
CWCT Section 8.14.2	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Sound attenuation test
CWCT Section 8.14.4.1	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Fire resistnace

CWCT Section 8.14.4.2	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Reaction to fire
CWCT Section 8.16.2	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Site water test (Hose testing)
CWCT Section 8.16.3	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Site water test (Spray bar testing)
CWCT Section 8.16.4	Centre for Window and Cladding Technology-Standard test systemised building envelopes part 8_Site water test (Static method)
EN 947	Hinged or pivoted doors - determination of the resistance to vertical load
EN 948	Hinged or pivoted doors - determination of the resistance to static torsion
EN 949	Windows and curtain walling, doors, blinds and shutters - determination of the resistance to soft and heavy body impact for doors
EN 950	Door leaves - determination of the resistance to hard body impact
EN 951	Door leaves - method for measurement of height, width, thickness and squareness
EN 952	Door leaves - general and local flatness - measurement method
EN 1191	Windows and doors - resistance to repeated opening and closing – test method
EN 1192	Doors - classification of strength requirements
EN 1627	Pedestrian doorsets, windows, curtain walling, grilles and shutters - burglar resistance - requirements and classification
EN 1628	Pedestrian doorsets, windows, curtain walling, grilles and shutters – burglar resistance – test method for the determination of resistance under static loading
EN 1629	Pedestrian doorsets, windows, curtain walling, grilles and shutters - burglar resistance - test method for the determination of resistance under dynamic loading
EN 1630	Pedestrian doorsets, windows, curtain walling, grilles and shutters — burglar resistance — test method for the determination of resistance to manual burglary attempts
EN 12046-1	Operating forces - test method - windows
EN 12046-2	Operating forces - test method - doors
EN 12110	Tunnelling machines - air locks - safety requirements
EN 12150-1	Glass in buildings – thermally toughened soda lime silicate safety glass
EN 12150-2	Glass in building - thermally toughened soda lime silicate safety glass - part 2: evaluation of conformity/product standard

EN 12152	Curtain walling - air permeability - performance requirements and classification
EN 12153	Curtain walling - air permeability - test method
EN 12154	Curtain walling - watertightness - performance requirements and classification
EN 12155	Curtain walling - watertightness - laboratory test under static pressure
EN 12179	Curtain walling - resistance to wind load - test method
EN 12211	Windows and doors – resistance to wind load – test method
EN 12400	Windows and pedestrian doors - mechanical durability - requirements and classification
EN 12600	Glass in building - pendulum test - impact test method and classification for flat glass
EN 12825	Raised access floors (sections 4.1, 4.2, 4.3, 4.4 and 4.5)
EN 13049	Windows - soft and heavy body impact - test method, safety requirements and classification
EN 13115	Windows - classification of mechanical properties - racking, torsion and operating forces
EN 13116	Curtain walling - resistance to wind load - performance requirement
EN 13241	Industrial, commercial and garage doors and gates — product standard
EN 13561:2004+A1:2008	External blinds - performance requirements including safety
EN 13659:2004+A1:2008	Shutters - performance requirements including safety
EN 13830	Curtain walling – product standard
EN 14019	Curtain walling - impact resistance - performance requirements
EN 14351-1	Windows and external pedestrian doorsets without resistance to fire and smoke leakage characteristics (sections 4.1, 4.2, 4.5, 4.7, 4.8, 4.11, 4.12, 4.14, 4.17, 4.21 and 4.23)
EN 14179-1	Glass in building - heat soaked thermally toughened soda lime silicate safety glass - part 1: definition and description
EN 14179-2	Glass in building - heat soaked thermally toughened soda lime silicate safety glass - part 2: evaluation of conformity/ product standard
EN 14609	Windows - determination of the resistance to static torsion
EN 15534-1	Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) – part 1: test methods for characterization of compounds and products

EN 15534-4	Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - part 4: specifications for decking profiles and tiles
ICC ES AC01	Expansion anchors in masonry elements (test methods referenced in sections 5, except section 5.6)
ICC ES AC04	Sandwich panels (test methods referenced in section 4.0, except section 4.2.7)
ICC ES AC25	Metal composite material (MCM) (test methods referenced in sections 4.1, 4.2, 4.4.2, 4.5 and 4.6
ICC ES AC70	Power-actuated fasteners driven into concrete, steel and masonry elements (test methods referenced in section 4)
ICC ES AC106	Predrilled fasteners (screw anchors) in masonry (test methods referenced in section 4, except section 4.6)
ICC ES AC109	Thermoplastic composite lumber products (test methods sections 4.1, 4.2, 4.3, 4.4 (UV exposure only), 4.5, 4.6 and 4.7)
ICC ES AC116	Nails (test methods referenced in sections 3, 4 and 5)
ICC ES AC118	Tapping screw fasteners
ICC ES AC120	Wood-frame horizontal diaphragms, vertical shear walls and braced walls with alternative fasteners (test methods referenced in section 4)
ICC ES AC151	Fixed-height, low-profile, raised floor systems (test methods referenced in section 3.0)
ICC ES AC175	Raised floor systems over concealed spaces
ICC ES AC193	Mechanical anchors in concrete elements (test methods referenced in sections 3 and 4 un-cracked concrete (except reliability of screw anchors against brittle failure, torque, seismic tension and shear test)
ICC ES AC233	Alternate dowel-type threaded fasteners
ICC ES AC259	Power-actuated fasteners used for attaching gypsum board materials to cold-formed steel wall framing (test methods referenced in section 3)
ICC ES AC300	Access floors (test methods referenced in sections 3.0 and 4.0)
ICC ES AC335	Adjustable steel columns (test methods referenced in section 3.0)
ISO 8990	Thermal insulation -- determination of steady-state thermal transmission properties -- calibrated and guarded hot box
JGJ/T 132	Standard for energy efficiency test of residential builwqdings
MOB PF2 PS/SPU	Platform floors (Raised access floors) (except T19.00 and T40.00)

NFRC 102	Procedure for measuring the steady-state thermal transmittance of fenestration systems
NFRC 400	Procedure for determining fenestration product air leakage
NZS 4211	New Zealand Standard - Specification for performance of windows
PS-1	Structural plywood
PS-2	Performance standard for wood-based structural-use panels
SNZ TS 4211	Standards New Zealand Technical Specification - Specification for the classification of windows
SS 212	Specification for aluminium alloy windows
SS 381	Materials and performance tests for aluminum curtain walls
TAS 201	Impact test procedures
TAS 202	Criteria for testing impact & non impact resistant building envelope components using uniform static air pressure
TAS 203	Criteria for testing products subject to cyclic wind pressure loading
WDMA TM-5	Test method to determine the split resistance of stile edges of wood doors
WDMA TM-6	Test method for determining the durability of adhesives used in doors under accelerated aging conditions
WDMA TM-8	Test method for determining hinge loading resistance of wood door stiles
WDMA TM-10	Test method for determining the screw holding capacity of wood doors
WDMA TM-15	Test method for determining the vertical edge impact resistance of backing for veneered wood door stiles
Thermal	
ASTM C177	Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus
ASTM C411	Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation
ASTM C447	Estimating the Maximum Use Temperature of Thermal Insulations
ASTM C518	Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus
ASTM C547	Standard specification for mineral fiber pipe insulation (except, hot surface performance and stress corrosion)
ASTM C578	Standard specification for rigid, cellular polystyrene thermal insulation

ASTM C612	Standard specification for mineral fiber block and board thermal insulation (except maximum use temperature, odor emission, corrosiveness to steel, stress corrosion and fungi resistance)
ASTM C726	Standard specification for mineral wool roof insulation board
ASTM E2568	Standard specification for PB exterior insulation and finish systems (except full-scale multi-story fire test, ignition resistance)

AAMA: American Architectural Manufacturers Association; AATCC: American Association of Textile Chemists and Colorists

BHMA: Builders Hardware Manufacturers Association; CFR: Code of Federal Regulations

CGSB: Canadian General Standards Board; CISCA: Ceilings & Interior Systems Construction Association

CPSC: Consumer Product Safety Commission; FTP: Fire Test Procedures

GB: Chinese Standard; IEC: International Electrotechnical Commission

JGJ: Chinese Standard; MS: Malaysian Standard

NFPA: National Fire Protection Association; NFRC: National Fenestration Rating Council

PS: U.S. Department of Commerce Product Standards; SS: Singapore Standard

SSFI: Scaffolding, Shoring & Forming Institute; TAS: Testing Application Standard

UBC: Uniform Building Code; UL: Underwriters Laboratories

ULC: Underwriters Laboratories Canada; WCMA: Window and Covering Manufacturers Association

WDMA: Window and Door Manufacturer Association