



CERTIFICATE OF ACCREDITATION

This is to attest that

KAS QUALITY SERVICE (GUANGZHOU) CO., LTD
CHENZIWEI, XINSHA VILLAGE COMMITTEE, MUZHOU TOWN, XINHUI DISTRICT
JIANGMEN 529143, GUA, PEOPLE'S REPUBLIC OF CHINA

Testing Laboratory TL-827

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 October 22, 2023



A handwritten signature in black ink that reads 'Raj Nathan'.

President

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International Accreditation Service, Inc.

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KAS QUALITY SERVICE (GUANGZHOU) CO., LTD

www.kastesting.com

Contact Name Susie Tse

Contact Phone +86-2031801706

Accredited to ISO/IEC 17025:2017

Effective Date October 22, 2023

Building Hardware & Related Testing	
Mechanical	
ANSI/BHMA A156.1	Butts and hinges
ANSI/BHMA A156.4	Door controls-closers
AS 4145.4	Locksets Part 4: Padlocks
AS 4145.5	Locksets and hardware for doors and windows Part 5: Controlled door closing devices
ASTM B117	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM F883	Standard Performance Specification for Padlocks
EN 179	Building hardware — Emergency exit devices operated by a lever handle or push pad, for use on escape routes
EN 1125	Building hardware — Panic exit devices operated by a horizontal bar, for use on escape routes
EN 1154	Building hardware — Controlled door closing devices
EN 1155	Building hardware — Electrically powered hold-open devices for swing doors
EN 1158	Building hardware — Door coordinator devices
EN 1303	Building hardware — Cylinders for locks
EN 1527	Building hardware – Hardware for sliding doors and folding doors – Requirements and test methods
EN 1670	Building hardware - Corrosion resistance - Requirements and test methods
EN 1906	Building Hardware — Lever handles and knob furniture
EN 1935	Building Hardware-Single-axis hinges-Requirements and test methods
EN 12051	Building hardware — Door and window bolt
EN 12209	Building hardware — Mechanically operated locks and locking plates
EN 12320	Building hardware — Padlocks and padlock fittings

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EN 13126-1/2/3/5/6/7/8/9/15/19	Building hardware - Requirements and test methods for windows and doors height windows – Part 1: Requirements common to all types of hardware / Part 2: Window fastener handles / Part 3: Handles, primarily for Tilt&Turn, Tilt-First and Turn-Only hardware / Part 5: Devices that restrict the opening of windows and door height windows / Part 6: Variable geometry stay hinges / Part 7: Finger catches / Part 8: Tilt &Turn, Tilt-First and Turn-Only hardware / Part 9: Pivot hinges / Part 15: Rollers for horizontal sliding and sliding folding windows and doors / Part 19: Sliding Closing Devices
EN 14846	Building hardware — Locks and latches — Electromechanically operated locks and striking plates
EN 15684	Building hardware - Mechatronic cylinders - Requirements and test methods
EN 15706	Hardware for furniture – Strength and durability of slide fittings for sliding doors and roll fronts
EN 16005	Power operated pedestrian doorsets – Safety in use – Requirements and test methods
EN 16867	Building hardware - Mechatronic door furniture - Requirements and test methods
Fire Testing	
AS 1530.4	Methods for fire tests on building materials, components and structures Part 4: Fire-resistance tests for elements of construction
AS 1530.7	Methods for fire tests on building materials, components and structures Part 7: Smoke control assemblies—Ambient and medium temperature leakage test procedure
AS 1530.8.1 / 8.2	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 / 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 E119	Standard Test Methods for Fire Tests of Building Construction and Materials
BS 476-4	Fire tests on building materials and structures – Part 4: Non-combustibility test for materials
BS 476-20/21/22/23/24	Fire tests on building materials and structures Part 20: method for determination of the fire resistance of elements of construction (general principles) Part 21: method for determination of the fire resistance of loadbearing elements of construction Part 22: method for determination of the fire resistance of nonloadbearing elements of construction

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	<p>Part 23: Methods for determination of the contribution of components to the fire resistance of a structure /</p> <p>Part 24: Method for determination of the fire resistance of ventilation ducts</p>
BS 476-31.1	Fire tests on building materials and structures — Part 31: Methods for measuring smoke penetration through doorsets and shutter assemblies — Section 31.1 Method of measurement under ambient temperature conditions
BS 8524-1	Active fire curtain barrier assemblies – Part 1: Specification
CAN/ULC-S101	Standard methods of fire endurance tests of building construction and materials
CAN/ULC-S104	Standard Method For Fire Tests Of Door Assemblies
CEN/TS 1187	Test methods for external fire exposure to roofs
EN 81-58	Safety rules for the construction and installation of lifts. Examination and tests Part 58: Landing doors fire resistance test
EN 1363-1/2	Fire resistance tests – Part 1: general requirements / Part 2: alternative and additional procedures
EN 1364-1/2/3/4/5	Fire resistance tests for non-loadbearing elements Part 1: Walls Part 2: Ceilings Part 3: Curtain walling - Full configuration (complete assembly) Part 4: Curtain walling - Part configuration Part 5: Air transfer grilles
EN 1365-1/2/3/4/5/6	Fire resistance tests for loadbearing elements Part 1: Walls Part 2: Floors and roofs Part 3: Beams Part 4: Columns Part 5: Balconies and walkways Part 6: Stairs
EN 1366-1/2/3/4/5/6/7/8/9	Fire resistance tests for service installations Part 1: Ventilation ducts Part 2: Fire dampers Part 3: Penetration seals Part 4: Linear joint seals Part 5: Service ducts and shafts Part 6: Raised access and hollow core floors Part 7: Conveyor systems and their closures Part 8: Smoke extraction ducts Part 9: Single compartment smoke extraction ducts

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EN 1634-1/2/3	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 / Part 2: Fire resistance characterization test for elements of building hardware / Part 3: Smoke control test for door and shutter assemblies.
EN 13381-1/2/3/4/5/6/7/8/9	Test methods for determining the contribution to the fire resistance of structural members Part 1: Horizontal protective membranes Part 2: Vertical protective membranes Part 3: Applied protection to concrete members Part 4: Applied passive protection to steel members Part 5: Applied protection to concrete/profiled sheet steel composite member Part 6: Applied protection to concrete filled hollow steel columns Part 7: Applied protection to timber members Part 8: Applied reactive protection to steel members Part 9: Applied fire protection systems to steel beams with web openings
EN 13501-1/2/3/4/5/6	Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests Part 2: classification using data from fire resistance tests, excluding ventilation services Part 3: Classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ducts and fire dampers Part 4: Classification using data from fire resistance tests on components of smoke control systems Part 5: Classification using data from external fire exposure to roofs tests Part 6: Classification using data from reaction to fire tests on power, control and communication cables
EN 13823	Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item
EN 16034	Pedestrian doorsets, industrial, commercial, garage door and openable windows - Fire resisting and/or smoke control characteristics
GB/T 7633	Fire resistance tests - Door and shutter assemblies
GB/T 8624	Classification for burning behavior of building materials and products
GB/T 9978.1	Fire-resistance tests - Elements of building construction - Part 1: General requirement
GB/T 12955	Fire resistance door
GB/T 16809	Fire resistance window
GB/T 17428	Fire resistance test methods of ventilation ducts

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GB/T 41480	Smoke leakage tests for door and shutter assemblies
IEC 61730-2 (MST 23, MST 24)	Photovoltaic (PV) Module Safety Qualification – Part 2: Requirements for Testing
ISO 834-1/4/8	Fire-resistance tests - Elements of building construction Part 1: General requirement Part 4: Specific requirements for loadbearing vertical separating elements 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 3008-1/2/3	Fire resistance tests — Door and shutter assemblies Part 1: General requirements Part 2: Lift landing door assemblies Part 3: Door and shutter assemblies horizontally oriented
ISO 3009	Fire-resistance tests - Glazed elements
ISO 5925-1	Fire tests — Smoke-control door and shutter assemblies — Part 1: Ambient- and medium-temperature leakage tests
ISO 6944-1/2	Fire containment — Elements of building construction Part 1: Ventilation ducts Part 2: Kitchen extract ducts
ISO 9239-1	Reaction to fire tests for floorings Part 1: Determination of the burning behavior 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 2/3	Specification for fire resistant doorsets part 2: methods for determination of the fire resistance - general principles / 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 257	Standard on fire test for window and glass block assemblies
SS 332	Specification for fire doors
SS 489	Specification for fire shutters
T/CPQS XF001	Fire and smoke resistant and security doorsets

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UL 10 B/10C	Standard for positive pressure fire tests of door assemblies / Fire Tests of Door Assemblies
UL 263	Fire Tests of Building Constriction and Materials
UL 790	Standard test methods for fire tests of roof coverings
UL 1709	Rapid Rise Fire Tests of Protection Materials for Structural Steel
UL 1784	Air leakage tests of door assemblies and other opening protectives
Building Glass	
ANSI Z97.1	American National Standard for safety glazing materials used in buildings – safety performance specifications and methods of test (excluding Section 5.4)
AS/NZS 2208	Safety glazing materials in buildings
AS/NZS 4666	Insulating glass units
ASTM E2190	Standard Specification for Insulating Glass Unit Performance and Evaluation
BS 6206	Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings
CAN/CGSB-12.1	Safety Glazing, excluding Section 10.4
EN 1096-4	Glass in building – Coated glass – Part 4: Evaluation of conformity/Product standard
EN 1279-2	Glass in building - Insulating glass units
EN 1288-3	Glass in building Determination of the bending strength of glass Part 3: Test with specimen supported at two points (four point bending)
EN 12150-1/2	Glass in building – Thermally toughened soda lime silicate safety glass– Part 1: Definition and description / Part 2: Evaluation of conformity/Product standard
EN 12467	Fibre-cement flat sheets — Product specification and test methods
EN 12600	Glass in building – Pendulum test – Impact test method and classification for flat glass
EN 14449	Glass in building — Laminated glass and laminated safety glass — Evaluation of conformity/Product standard
EN ISO 12543-2/3/4	Glass in building – Laminated glass and laminated safety glass Part 2: Laminated safety glass Part 3: Laminated glass Part 4: Test methods for durability
MS 1498	Safety glass in building-specification
Physical	

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AS 2047	Windows and external glazed doors in buildings
AS 4420.1/2/3/4/5/6	Windows - methods of test Part 1: Test sequence, sampling and test methods Part 2: Deflection test Part 3: Operating force test Part 4: Air infiltration test Part 5: Water penetration resistance test Part 6: Ultimate strength test
ASTM E90	Standard test method for laboratory measurement of airborne sound transmission loss of building partitions and elements
ASTM E413	Classification for rating sound insulation
EN 300	Oriented Strand Boards (OSB) - Definitions, classification and specifications
EN 312	Particleboards — Specifications
EN 520	Gypsum plasterboards - Definitions, requirements and test methods
EN 622	Fibreboards — Specifications, Part 5: Requirements for dry process boards (MDF)
EN 636	Plywood — Specifications
EN 651	Resilient floor coverings - Polyvinyl chloride floor coverings with foam layer - Specification
EN 652	Resilient floor coverings - Polyvinyl chloride floor coverings with cork-based backing - Specification
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 13329	Laminate floor coverings — Elements with a surface layer based on aminoplastic thermosetting resins — Specifications, requirements and test methods
EN 13950	Gypsum board thermal/acoustic insulation composite panels - Definitions, requirements and test methods

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EN 13986	Wood-based panels for use in construction— Characteristics, evaluation of conformity and marking
EN 14041	Resilient, textile, laminate and modular multilayer floor coverings - Essential characteristics
EN 14342	Wood flooring and parquet - Characteristics, evaluation of conformity and marking
EN 14351-1/2	Windows and doors — Product standard, performance characteristics Part 1: Windows and external pedestrian doorsets Part 2: Internal pedestrian doorsets
EN 14877	Synthetic surfaces for outdoor sports areas - Specification
EN 14904	Surfaces for sports areas — Indoor surfaces for multi-sports use — Specification
EN 15102	Decorative wallcoverings Roll and panel form products
EN 15283-2	Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 2: Gypsum fibre boards
EN 15468	Laminate floor coverings. Elements with directly applied printing and resin surface layer - Specifications, requirements and test methods
EN 15534-1/4/5/6	Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) Part 1: Test methods for characterisation of compounds and products Part 4: Specifications for decking profiles and tiles Part 5: Specifications for cladding profiles and tiles Part 6: Specifications for fencing profiles and elements
EN 16094	Laminate floor coverings - Test method for the determination of micro-scratch resistance
EN ISO 10581	Resilient floor coverings - Homogeneous poly(vinyl chloride) floor covering - Specifications
EN ISO 10582	Resilient floor coverings - Heterogeneous poly(vinyl chloride) floor coverings - Specification
EN ISO 10595	Resilient floor coverings - Semi-flexible/vinyl composition (VCT) poly (vinyl chloride) floor tiles - Specification
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 10140-2	Acoustics -- laboratory measurement of sound insulation of building elements -- part 2: measurement of airborne sound insulation

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MS 832	Aluminium alloy windows - Specification
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