



CERTIFICATE OF ACCREDITATION

This is to attest that

ICTT CORP

NATIONAL ENGINEERING RESEARCH CENTER OF WOOD INDUSTRY, LONGLIN ROAD, MENTOUGOU
DISTRICT
BEIJING 102308, PEOPLE'S REPUBLIC OF CHINA

Testing Laboratory TL-969

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 May 11, 2021



A handwritten signature in black ink, reading 'Raj Nathan'.

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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ICTT CORP

www.icttglobal.com

Contact Name Mark Chen

Contact Phone +86-13637925198

Accredited to ISO/IEC 17025:2017

Effective Date May 11, 2021

16 CFR PART 1632	Standard for the Flammability (Cigarette Ignition Resistance) of Mattresses and Mattress Pads
16 CFR PART 1633	STANDARD FOR THE FLAMMABILITY (OPEN FLAME) OF MATTRESS SETS
16 CFR PART 1634	Standard for the Flammability of Residential Upholstered Furniture
AS ISO 9239.1:2003(R2016)	Reaction to fire tests for floor coverings - Part 1: Determination of the burning behaviour using a radiant heat source
AS/NZS 1530.2	Methods for fire tests on building materials, components and structures, Part 2: Test for flammability of materials
AS/NZS 3744.1	FURNITURE - ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE - IGNITION SOURCE - SMOULDERING CIGARETTE
ASTM E69	Standard Test Method for Combustible Properties of Treated Wood by the Fire-Tube Apparatus
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials
ASTM E162	Standard Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source
ASTM E648	Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
ASTM E1352	Standard Test Method for Cigarette Ignition Resistance of Mock-Up Upholstered Furniture Assemblies
ASTM E1353	Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture
ASTM E1354	Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter
ASTM E1537	Standard Test Method for Fire Testing of Upholstered Furniture
ASTM E1590	Standard Test Method for Fire Testing of Mattresses
ASTM E1623	Standard Test Method for Determination of Fire and Thermal Parameters of Materials, Products, and Systems Using an Intermediate Scale Calorimeter (ICAL)

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ASTM E1822	Standard Test Method for Fire Testing of Stacked Chairs
ASTM E2067	Standard Practice for Full-Scale Oxygen Consumption Calorimetry Fire Tests
ASTM E2257	Standard Test Method for Room Fire Test of Wall and Ceiling Materials and Assemblies
BS 476-3	Fire tests on building materials and structures —Part 3: Classification and method of test for external fire exposure to roofs
BS 476-4	Fire tests on building materials and structures — Part 4: Non-combustibility test for materials
BS 476-6	Fire tests on building materials and structures - Part 6: Method of test for fire propagation for products
BS 476-7	Fire Tests on Building Materials and Structures-Part 7. Method of Test to Determine the Classification of the Surface Spread of Flame of Products
BS 476-10	Fire tests on building materials and structures - Part 10: Guide to the principles, selection, role and application of fire testing and their outputs
BS 476-11	Fire tests on building materials and structures - Part 11: Method for assessing the heat emission from building materials
BS 476-12	Fire tests on building materials and structures - Part 12: Method of test for ignitability of products by direct flame impingement
BS 476-32	Fire tests on building materials and structures - Part 32: Guide to full scale fire tests within buildings
BS 476-33	Fire Tests on Building Materials and Structures Part 33: Full-Scale Room Test for Surface Products
BS 5852	Methods of Test for Assessment of the Ignitability of Upholstered Seating by Smouldering and Flaming Ignition Sources
BS 6807	Methods of Test for Assessment of the Ignitability of Mattresses, Upholstered Divans and Upholstered Bed Bases with Flaming Types of Primary and Secondary Sources of Ignition
BS EN 597-1	Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 1: Ignition source smouldering cigarette
BS EN 597-2	Furniture - Assessment of the Ignitability of Mattresses and Upholstered Bed Bases Part 2: Ignition Source: Match Flame Equivalent
BS EN 1021-1	Furniture - Assessment of the ignitability of upholstered furniture Part 1: Ignition source smouldering cigarette
BS EN 1021-2	Furniture - Assessment of the ignitability of upholstered furniture Part 2: Ignition source match flame equivalent
BS ISO 5660-1:2015+A1:2019	Fire Tests on Building Materials and Structures Part 15: Method of Measuring the Rate of Heat Release of Products

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CA TB 116	Requirements, Test Procedure and Apparatus for Testing the Flame Retardance of Upholstered Furniture
CA TB 117	Requirements, Test Procedure and Apparatus for Testing the Flame Retardance of Resilient Filling Materials Used in Upholstered Furniture
CA TB 129	Standard Method for Room Fire Testing of Mattresses for Use in Public Occupancies
CA TB 604	Notice of Suspension of Flammability Test Method for Bedclothing Products
DIN 4102-14	Fire behaviour of building materials and elements-determination of the burning behaviour of floor covering systems using a radiant heat source
DIN 53436-1	Generation of thermal decomposition products from materials for their analytic-toxicological testing - Part 1: Decomposition apparatus and determination of test temperature
DIN 53436-2	Generation of thermal decomposition products from materials for their analytic-toxicological testing - Part 2: Thermal decomposition method
DIN 53436-4	Generation of thermal decomposition products from materials for their analytic-toxicological testing - Part 4: Thermal decomposition method for liquids
EN 13238	Reaction to fire tests for building product — Conditioning procedures and general rules for selection of substrates
EN 13501-1	Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests
EN 13823	Reaction to fire tests for building products-Building products excluding floorings exposed to the thermal attack by a single burning item
EN 45545-2	Railway applications - Fire protection of railway vehicles-Part 2: Requirement for fire behavior of materials and components
EN ISO 1182	Reaction to fire tests for products — Non-combustibility test
EN ISO 1716	Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value)
GA 87-1994	General technical requirements for fire-resistant particleboard-Appendix A: Smoke toxicity test method
GB 8624	Classification for burning behavior of building materials and products
GB 17927.1	Upholstered furniture - Assessment of the resistance to ignition of the mattress and the sofa - Part 1: Ignition source: smouldering cigarette
GB 17927.2	Upholstered furniture - Assessment of the resistance to ignition of the mattress and the sofa - Part 2: Ignition source: match flame equivalent
GB 20286	Requirements and mark on burning behavior of fire retarding products and subassemblies in public place

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GB/T 5464	Non-combustibility test method for building materials
GB/T 8626	Test method for flammability for building materials
GB/T 11785	Reaction to fire tests for floorings-Determination of the burning behavior using a radiant heat source
GB/T 14402	Reaction to fire tests for building materials and products-determination of the heat of combustion
GB/T 16172	Test method for heat release rate of building materials
GB/T 17658	Test of burning behavior for flame retardant treated wood—Method of test for fire propagation
GB/T 20284	Single burning item test for building materials and products
GB/T 20285	Toxic classification of fire effluents hazard for materials
GB/T 25207	Fire tests—Full-scale room test for surface products
GB/T 27904	Testing method for fire characteristics of furniture and subassemblies exposed to flaming ignition source
IMO 2010 FTP Code-2012	International Code for Application of Fire Test Procedures, 2010 (2010 FTP Code)
ISO 5660-1	Reaction-to-fire tests — Heat release, smoke production and mass loss rate — Part 1: Heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement)
ISO 8191-1	Furniture - Assessment of the Ignitability of Upholstered Furniture - Part 1: Ignition Source: Smouldering Cigarette
ISO 8191-2	Furniture - Assessment of Ignitability of Upholstered Furniture - Part 2: Ignition Source: Match-Flame Equivalent First Edition; (CEN EN 1021-2: 1993)
ISO 9239-1	Reaction to fire tests for floorings — Part 1: Determination of the burning behaviour using a radiant heat source
ISO 9239-2	Reaction to fire tests for floorings — Part 2: Determination of flame spread at a heat flux level of 25 kW/m ²
ISO 9705-1	Reaction to fire tests — Room corner test for wall and ceiling lining products — Part 1: Test method for a small room configuration
ISO 11925-2	Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test
ISO 12952-1	Textiles - Assessment of the ignitability of bedding items - Part 1: Ignition source: smouldering cigarette
ISO 12952-2	Textiles — Assessment of the ignitability of bedding items — Part 2: Ignition source: match-flame equivalent

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ISO 13784-1	Reaction to fire test for sandwich panel building systems - Part 1: Small room test
ISO 13784-2	Reaction-to-fire tests for sandwich panel building systems — Part 2: Test method for large rooms
ISO 13785-1	Reaction-to-fire tests for façades — Part 1: Intermediate-scale test
ISO 13785-2	Reaction-to-fire tests for façades — Part 2: Large-scale test
JIS A 1321	Testing Method for Incombustibility Of Internal Finish Material And Procedure Of Buildings
NF P92-501	Safety Against Fire - Building Materials - Reaction to Fire Tests - Radiation Test Used For Rigid Materials, Or For Materials On Rigid Substrates (Flooring And Finishes) Of All Thicknesses, And For Flexible Materials Thicker Than 5 Mm
NF P92-504	Safety Against Fire - Building Materials - Reaction to Fire Tests - Flame Persistence Test and Speed Of The Spread Of Flame
NFPA 253	Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
NFPA 259	Standard Test Method for Potential Heat of Building Materials
NFPA 260	Standard Methods of Tests and Classification System For Cigarette Ignition Resistance Of Components Of Upholstered Furniture
NFPA 261	Standard Method of Test for Determining Resistance Of Mock-Up Upholstered Furniture Material Assemblies To Ignition By Smoldering Cigarettes
NFPA 265	Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Wall Coverings on Full Height Panels and Walls
NFPA 266	Standard Method of Test for Fire Characteristics of Upholstered Furniture Exposed to Flaming Ignition Source
NFPA 285	Standard Fire test Method for Evaluation of fire Propagation characteristics of Exterior Non-Load-Bearing wall assemblies containing combustible components.
NFPA 286	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
SAA AS/NZS 3744.2	Furniture - Assessment of The Ignitability Of Upholstered Furniture - Ignition Source - Match-Flame Equivalent
SAA AS/NZS 3837	Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter
UL 723	UL Standard for Safety Test for Surface Burning Characteristics of Building Materials
ULC CAN-S102	Standard Method of Test for Surface Burning Characteristics Of Building Materials And Assemblies

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ULC CAN-S104	Standard Method for Fire Tests of Door Assemblies
ULC CAN-S137	Standard Method of Test for Fire Growth of Mattresses (Open Flame Test)