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# CERTIFICATE OF ACCREDITATION

*This is to attest that*

**SHANGHAI HONGJUN SCIENCE & TECHNOLOGY CO., LTD.**

B SUITE 22-2 OF GANGTIAN BUILDING  
CHONGQING, GUA 400000, CHINA

**Testing Laboratory TL-658**

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 25, 2025



*International Accreditation Service*

Issued under the authority of IAS management

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# SCOPE OF ACCREDITATION

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## SHANGHAI HONGJUN SCIENCE & TECHNOLOGY CO., LTD.

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*Accredited to ISO/IEC 17025:2017*

*Effective Date March 25, 2025*

| Physical         |  |
|------------------|--|
| ANSI A118.10     | (Section 5.3 and 5.4 only)   |
| ANSI 208.1       | Particleboard  |
| ANSI 208.2       | Medium Density Fiberboard (MDF) for Interior Applications  |
| ANSI/KCMA A161.1 | Performance And Construction Standard For Kitchen And Vanity Cabinets  |
| AS 2208          | Safety glazing materials in buildings  |
| AS 2858          | Timber-Softwood-Visually stress-graded for structural purposes   |
| AS 3718          | Water supply - Tap ware  |
| AS/NZS 1080.1    | Timber - methods of test method 1: Moisture content  |
| AS/NZS 1328.1    | Glued laminated structural timber Part 1: Performance requirements and minimum production requirements                 |
| AS/NZS 1577      | Scaffold decking components  |
| AS/NZS 1604.4    | Specification for preservative treatment - Laminated veneer lumber (LVL)   |
| AS/NZS 1748.1    | Timber - Solid - Stress-graded for structural purposes General requirements  |
| AS/NZS 1860.1    | Particleboard flooring Part 1: Specifications  |
| AS/NZS 2098.1    | Methods of test for veneer and plywood - Moisture content of veneer and plywood  |
| AS/NZS 2098.2    | Methods of test for veneer and plywood - Bond quality of plywood (chisel test)   |
| AS/NZS 2098.3    | Methods of test for veneer and plywood method 3: Bond quality and strength of scaft joints in plywood                  |
| AS/NZS 2098.4    | Methods of test for veneer and plywood method 4: measurement of dimensions and shapes for sheets of veneer and plywood |
| AS/NZS 2269.0    | Plywood—Structural, Part 0: Specifications   |
| AS/NZS 2269.1    | Plywood – Structural Part 1: Determination of structural properties – Test methods                                     |
| AS/NZS 2269.2    | Plywood—Structural, Part 2: Determination of structural properties—Evaluation methods.                                 |

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|                           |   |
|---------------------------|---|
| AS/NZS 2271               | Plywood and blockboard for exterior use   |
| AS/NZS 2272               | Plywood - Marine  |
| AS/NZS 2588               | Gypsum plasterboard   |
| AS/NZS 2908.2             | Cellulose-cement products Part 2: Flat sheets   |
| AS/NZS 3662               | Performance of showers for bathing  |
| AS/NZS 3678               | Structural steel - Hot-rolled plates, floorplates and slabs   |
| AS/NZS 3679.1             | Structural steel Part 1: Hot-rolled bars and sections   |
| AS/NZS 4063.1             | Characterization of structural timber Part 1: Test methods  |
| AS/NZS 4063.2             | Characterization of structural timber Part 2: Determination of Characteristic values                          |
| AS/NZS 4266.1             | Reconstituted wood-based panels— Methods of testing Part 1: Base panels                                       |
| AS/NZS 4266.2             | Reconstituted wood-based panels-Methods of testing Part 2: Decorative overlaid panels                         |
| AS/NZS 4266.26            | Reconstituted wood-based panels-Methods of test - Method 26: Resistance to dry heat                           |
| AS/NZS 4266.27            | Reconstituted wood-based panels-Methods of test - Method 27: Resistance to impact                             |
| AS/NZS 4357.1             | Structural laminated veneer lumber - Method of test for measurement of dimensions and shape                   |
| AS/NZS 4666               | Insulating glass units  |
| AS/NZS 4859.1             | Thermal insulation materials for buildings Part 1: General criteria and technical provisions                  |
| AS/NZS 4859.2             | Thermal insulation materials for buildings Part 2: Design   |
| ASME A112.18.1/CSA B125.1 | Plumbing supply fittings  |
| ASME A112.18.6/CSA B125.6 | Flexible water connectors   |
| ASME A112.19.3/CSA B45.4  | Stainless steel plumbing fixtures   |
| ASTM A90                  | Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings |
| ASTM A153                 | Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware                                  |
| ASTM C97                  | Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone                             |
| ASTM C99                  | Standard Test Method for Modulus of Rupture of Dimension Stone  |
| ASTM C170                 | Standard Test Method for Compressive Strength of Dimension Stone  |

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|            |   |
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| ASTM C203  | Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation  |
| ASTM C241  | Standard Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic   |
| ASTM C373  | Standard Test Methods for Determination of Water Absorption and Associated Properties by Vacuum Method for Pressed Ceramic Tiles and Glass Tiles and Boil Method for Extruded Ceramic Tiles and Non-tile Fired Ceramic Whiteware Products |
| ASTM C482  | Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement Paste(Section 9.8 only)   |
| ASTM C503  | Standard Specification for Marble Dimension Stone   |
| ASTM C578  | Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation   |
| ASTM C612  | Standard Specification for Mineral Fiber Block and Board Thermal Insulation   |
| ASTM C615  | Standard Specification for Granite Dimension Stone  |
| ASTM C648  | Standard Test Method for Breaking Strength of Ceramic Tile  |
| ASTM C880  | Standard Test Method for Flexural Strength of Dimension Stone   |
| ASTM C847  | Standard Specification for Metal Lath   |
| ASTM C1064 | Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete   |
| ASTM C1185 | Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards  |
| ASTM C1186 | Standard Specification for Flat Fiber-Cement Sheets   |
| ASTM C1288 | Standard Specification for Fiber-Cement Interior Substrate Sheets   |
| ASTM C1354 | Standard Test Method for Strength of Individual Stone Anchorages in Dimension Stone   |
| ASTM C1693 | Standard Specification for Autoclaved Aerated Concrete (AAC)(Section 6 to 8 only)   |
| ASTM C1694 | Standard Specification for Reinforced Autoclaved Aerated Concrete (AAC) Elements (Section 5.1 to 5.3, Section 5.7 and Section 8 only)   |
| ASTM D198  | Test Methods of Static Tests of Lumber in Structural Sizes  |
| ASTM D570  | Standard Test Method for Water Absorption of Plastics   |
| ASTM D1621 | Standard Test Method for Compressive Properties of Rigid Cellular Plastics  |
| ASTM D1622 | Standard Test Method for Apparent Density of Rigid Cellular Plastics  |
| ASTM D1623 | Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics   |
| ASTM D1781 | Standard Test Method for Climbing Drum Peel for Adhesives   |

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| ASTM D2126              | Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging  |
| ASTM D4060              | Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser  |
| ASTM D4761              | Test Methods for Mechanical Properties of Lumber and Wood-Base Structural Material   |
| ASTM D5055              | Standard Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-Joists                          |
| ASTM D5379/ D5379M-19E1 | Standard Test Method for Shear Properties of Composite Materials by the V-Notched Beam Method  |
| ASTM D5764-97a          | Test Methods for Evaluating Dowel-Bearing Strength of Wood and Wood-Based Products   |
| ASTM D6109              | Test Methods for Flexural Properties of Unreinforced and Reinforced Plastic Lumber and Related Products                              |
| ASTM D7033              | Standard Practice for Establishing Design Capacities for Oriented Strand Board (OSB) Wood-Based Structural-Use Panels                |
| ASTM D8257              | Standard Specification for Mechanically Attached Polymeric Roof Underlayment Used in Steep Slope Roofing                             |
| ASTM E1333              | Standard Test Method for Determining Formaldehyde Concentrations in Air and Emission Rates from Wood Products Using a Large Chamber  |
| ASTM F970               | Standard Test Method for Measuring Recovery Properties of Floor Coverings after Static Loading                                       |
| ASTM F1667              | Standard Specification for Driven Fasteners: Nails, Spikes, and Staples  |
| ASTM F1914              | Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering                                |
| ASTM F2199              | Standard Test Method for Determining Dimensional Stability and Curling Properties of Resilient Flooring after Exposure to Heat       |
| BS EN 408               | Timber structures. Structural timber and glued laminated timber. Determination of some physical and mechanical properties            |
| BS EN 14374             | Timber structures-structural laminated veneer lumber-requirements  |
| EN 817                  | Sanitary tapware - Mechanical mixing valves (PN 10)-General technical specifications   |
| EN 1112                 | Sanitary tapware - Shower outlets for sanitary tapware for water supply systems of type 1 and type 2-General technical specification |
| EN 1113                 | Sanitary tapware - Shower hoses for sanitary tapware for water supply systems of type 1 and type 2-General technical specification   |
| EN 12467                | Fibre-cement flat sheets - Product specification and test methods  |

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| EN 13986                  | Wood-based Panels For Use In Construction - Characteristics, Evaluation Of Conformity And Marking (Sections 5.3 to 5.6, 5.9, 5.17)   |
| EN 14080                  | Timber structures — Glued laminated timber and glued solid timber — Requirements   |
| EN 15534-1                | Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fiber 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               |
| EN 15534-5                | Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC))-Part 5: Specifications for cladding profiles and tiles              |
| GB/T 11982                | Polyvinyl chloride floor coverings-Part 1: Hetero generous polyvinyl chloride floor coverings  |
| GB/T 15102                | Surface decorated fiberboard and particleboard with paper impregnated thermosetting resins   |
| GB/T 17657                | Test methods of evaluating the properties of wood-based panels and surface decorated wood-based panels (Sections 4.1 to 4.6, 4.56 to 4.57).  |
| GB/T 28985                | Wood I-joist for building structures   |
| GB/T 29418                | Test methods for mechanical and physical properties of wood-plastic composite product  |
| GB/T 29419                | Establishing performance ratings for wood-plastic composite deck boards and guardrail system performance   |
| GB/T 34722                | Surface decorated plywood and blockboard with paper impregnated thermosetting resins   |
| GB/T 37315                | Basic Requirements of Bond Performance of Adhesives of Timber Structure  |
| IAMPO PS106               | Tileable shower receptors and shower kits (Sections 4.1.2, 4.9, 5.3 and 5.8 only)  |
| ISO 22389-1               | Timber structures — Bending strength of I-beams — Part 1: Testing, evaluation and characterization   |
| JAS 0701                  | Laminated Veneer Lumber  |
| JAS 701                   | Laminated Veneer Lumber  |
| JAS 1073                  | Flooring   |
| JAS 1083                  | Sawn Lumber  |
| JAS 1751                  | Japanese Agricultural Standard for Plywood   |
| LY-T 1580-2010            | Oriented Strand Board  |
| MAFF Notification No. 475 | Japanese Agricultural Standards for Glulam wood  |

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|                                |  |
|--------------------------------|--|
| MAFF Notification No. 475      | Japanese Agricultural Standards for Plywood  |
| <b>Environmental</b>           |  |
| 40 CFR Part 770 Title VI (EPA) | Formaldehyde Concentrations in Air from Composite Wood Products  |
| AB 1953                        | Lead Plumbing  |
| AS 1720.1                      | Timber Structures-Part 1: Design Methods   |
| AS 5604                        | Timber-Natural durability ratings  |
| AS/NZS 1604.1                  | Preservative-treated wood-based products<br>Part 1: Products and treatment   |
| AS/NZS 1604.2                  | Preservative-treated wood-based products<br>Part 2: Verification requirements  |
| AS/NZS 1604.3                  | Preservative-treated wood-based products<br>Part 3: Test methods   |
| AS/NZS 2098.11                 | Methods of Test for Veneer and Plywood, Method 11: Determination of Formaldehyde Emissions for Plywood                   |
| AS/NZS 2754.1                  | Adhesives for timber and timber products - Adhesives for manufacture of plywood and laminated veneer lumber (LVL)        |
| AS/NZS 4357.4                  | Structural laminated veneer lumber - Determination of formaldehyde emissions   |
| ASTM B117                      | Standard Practice for Operating Salt Spray (Fog) Apparatus   |
| ASTM B368                      | Standard Test Method for Copper-Accelerated Acetic Acid-Salt Spray (Fog) Testing (CASS Test)                             |
| ASTM B380                      | Standard Test Method for Corrosion Testing of Decorative Electrodeposited Coatings by the Corrodokote Procedure          |
| ASTM C1694                     | Standard Specification for Reinforced Autoclaved Aerated Concrete (AAC) Elements (Section 5.5 and Section 7 only)        |
| ASTM D610                      | Standard Practice for Evaluating Degree of Rusting on Painted Steel Surfaces   |
| ASTM D 2369                    | Standard Test Method for Volatile Content of Coatings  |
| ASTM D2559                     | Standard Specification for Adhesives for Bonded Structural Wood Products for Use Under Exterior Exposure Conditions      |
| ASTM D3434                     | Standard Test Method for Multiple-Cycle Accelerated Aging Test (Automatic Boil Test) for Exterior Wet Use Wood Adhesives |
| ASTM D4442                     | Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials                           |
| ASTM D5116                     | Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/Products  |

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|             |  |
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| ASTM D5197  | Standard Test Method for Determination of Formaldehyde and Other Carbonyl Compounds in Air (Active Sampler Methodology)  |
| ASTM D5582  | Standard Test Method for Determining Formaldehyde Levels from Wood Products Using a Desiccator   |
| ASTM D6007  | Standard Test Method for Determining Formaldehyde Concentrations in Air from Wood Products Using a Small-Scale Chamber   |
| ASTM D6196  | Standard Practice for Choosing Sorbents, Sampling Parameters and Thermal Desorption Analytical Conditions for Monitoring Volatile Organic Chemicals in Air                                   |
| ASTM D6330  | Standard Practice for Determination of Volatile Organic Compounds (Excluding Formaldehyde) Emissions from Wood-Based Panels Using Small Environmental Chambers Under Defined Test Conditions |
| ASTM D6670  | Standard Practice for Full-Scale Chamber Determination of Volatile Organic Emissions from Indoor Materials/Products  |
| ASTM D6803  | Standard Practice for Testing and Sampling of Volatile Organic Compounds (Including Carbonyl Compounds) Emitted from Paint Using Small Environmental Chambers                                |
| ASTM D7339  | Standard Test Method for Determination of Volatile Organic Compounds Emitted from Carpet using a Specific Sorbent Tube and Thermal Desorption / Gas Chromatography                           |
| ASTM G85    | Standard Practice for Modified Salt Spray (Fog) Testing  |
| ASTM G154   | Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials  |
| AWPA A28    | Standard Method for Determination of Propiconazole and Tebuconazole in Waterborne Formulations and in Treating Solutions by HPLC   |
| AWPA A43    | Standard Method for Analysis for Imidacloprid in Wood and Waterborne Formulations  |
| BS 1088     | Marine plywood - Requirements  |
| BS 2482     | Specification for timber scaffold boards   |
| BS EN 248   | Sanitary tapware-General specification for electrodeposited coatings of Ni-Cr  |
| BS EN 300   | Oriented Strand Boards (OSB) -Definitions, Classification and Specifications   |
| BS EN 312   | Particleboards — Specifications  |
| BS EN 314-1 | Plywood - Bonding quality - Test methods   |
| BS EN 317   | Particleboards and Fiberboards-Determination of Swelling in thickness after immersion in water.  |
| BS EN 319   | Particleboards and Fiberboards-Determination of tensile strength perpendicular to the plane of the board.  |
| BS EN 321   | Wood-based panels-Determination of moisture resistance under cyclic test conditions  |

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| BS EN 322                      | Wood-based panels-Determination of moisture content   |
| BS EN 324-1                    | Wood-based panels-Determination of dimensions of board-Part 1: Determination of thickness, width and length   |
| BS EN 622-1                    | Fiberboards-Specifications-Part 1: General requirements.  |
| BS EN 622-2                    | Fiberboards-Specifications -Part 2: Requirements for hardboards   |
| BS EN 622-3                    | Fiberboards-Specifications-Part 3: Requirements for medium board  |
| BS EN 622-4                    | Fibreboards —Specifications Part 4: Requirements for softboards   |
| BS EN 636                      | Plywood — Specifications  |
| BS EN ISO 717-1                | Acoustics - Rating Of Sound Insulation In Buildings And Of Building Elements - Part 1: Airborne Sound Insulation  |
| BS EN 717-1                    | Wood-based panels - Determination of formaldehyde release - Part 1: Formaldehyde emission by the chamber method   |
| BS EN 717-3                    | Wood-based panels - Determination of formaldehyde release - Part 3: Formaldehyde release by the flask method  |
| BS EN 1087-1                   | Particleboards-Determination of moisture resistances-Part 1: Boil test  |
| BS EN 1534                     | Wood flooring —Determination of resistance to indentation — Test method   |
| BS EN 12460-3                  | Wood-Based Panels - Determination Of Formaldehyde Release - Part 3: Gas Analysis Method   |
| BS EN 12460-4                  | Wood-Based Panels - Determination Of Formaldehyde Release - Part 4: Desiccator Method   |
| BS EN 12460-5                  | Wood-Based Panels - Determination Of Formaldehyde Release - Extraction Method (Called The Perforator Method)  |
| BS EN 13183-1                  | Moisture content of a piece of swan timber-Part 1: Determination by oven dry method   |
| BS EN 13329                    | Laminate floor coverings— Elements with a surface layer based on aminoplastic thermosetting resins —Specifications, requirements and test methods                               |
| BS EN 16000-9                  | Indoor air - Determination of the emission of volatile organic Compounds from building products and furnishing - Emission test chamber method                                   |
| BS EN 16516                    | Construction products: Assessment of release of dangerous substances - Determination of emissions into indoor air   |
| BS EN ISO 10289                | Methods for corrosion testing of metallic and other inorganic coatings on metallic substrates - Rating of test specimens and manufactured articles subjected to corrosion tests |
| CDPH/EHLB/Standard Method V1.2 | California Department of Public Health, Standard Method For the Testing and Evaluation of Volatile Organic Chemical Emissions From Indoor Sources Using Environmental Chambers  |
| CEN/TR 14823                   | Durability of wood and wood-based products - Quantitative determination of pentachlorophenol in wood - Gas chromatographic method   |

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| EN 120       | Plastics - Phenol-formaldehyde Mouldings - Determination Of Free Ammonia And Ammonium Compounds - Colorimetric Comparison Method   |
| EN 310       | Wood-based panels-Determination of modulus of elasticity in bending and by bending strength  |
| EN 13986     | Wood-based Panels for use in Construction - Characteristics, Evaluation Of Conformity and Marking (Section 5.7)  |
| EN ISO 10580 | Resilient, Textile And Laminate Floor Coverings - Test Method For Volatile Organic Compound (Voc) Emissions  |
| EPA 200.8    | Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry   |
| GB 18580     | Indoor decorating and refurbishing materials – Limit of formaldehyde emission of wood based panels and finishing products  |
| GB 18583     | Indoor decorating and refurbishing materials-Limit of harmful substances of adhesives  |
| GB 18584     | Indoor decorating and refurbishing materials – Limit of harmful substances of wood based furniture   |
| GB 18587     | Indoor decorating and refurbishing materials – Limitations of harmful substances emitted from carpets, carpet cushions and adhesives   |
| GB 50325     | Code for indoor environmental pollution control of civil building engineering  |
| GB/T 4897    | Particle Board   |
| GB/T 5750.6  | Standard examination methods for drinking water – Part 6: Metal and metalloid indices  |
| GB/T 9846    | Plywood  |
| GB/T 10125   | Corrosion tests in artificial atmospheres – Salt spray tests   |
| GB/T 11718   | Medium Density Fiberboard  |
| GB/T 16422.3 | Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps  |
| GB/T 17657   | Test methods of evaluating the properties of wood-based panels and surface decorated wood-based panels (Sections 4.13 to 4.19, 4.26, 4.28, 4.30 to 4.50, 4.52 and 4.58 to 4.61 only) |
| GB/T 28489   | Limits of hazardous substances for musical instruments   |
| GB/T 29899   | Determination of the emission of volatile organic compounds from wood-based panels and furnishing – Small chamber method   |
| GB/T 31107   | Environmental chamber for the determination of volatile organic compounds of furniture - General technical requirements  |
| GB/T 35469   | Test method of anti-mold activity of building wood-plastic composites  |
| GB/T 39600   | Formaldehyde emission grading for wood-based panel and finishing products  |

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| HJ 571                            | Technical requirement for environmental labeling products—Wood based panels and finishing products  |
| ISO 9227                          | Corrosion tests in artificial atmospheres-Salt spray tests  |
| ISO 11890-2                       | Paints and varnishes — Determination of volatile organic compounds (VOC) and/or semi volatile organic compounds (SVOC) content — Part 2: Gas-chromatographic method                                   |
| ISO 12219-4                       | Interior air of road vehicles - Part 4: Method for the determination of the emissions of volatile organic compounds from vehicle interior parts and materials - Small chamber method                  |
| ISO 12460-1                       | Wood-based panels - Determination of formaldehyde release - Part 1: Formaldehyde emission by the 1-cubic-metre chamber method   |
| ISO 16000-3                       | Indoor air - Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air - Active sampling method   |
| ISO 16000-6                       | Indoor air - Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA® sorbent, thermal desorption and gas chromatography using MS or MS-FID |
| ISO 16000-11                      | Indoor air - Part 11: Determination of the emission of volatile organic compounds from building products and furnishing - Sampling, storage of samples and preparation of test specimens              |
| ISO 16000-28                      | Determination of odour emissions from building products using test chambers   |
| JCT 2039                          | Antibacterial and mildew-proof wooden boards for decoration   |
| JIS A 1460                        | Determination Of The Emission Of Formaldehyde From Building Boards - Desiccator Method  |
| JIS A 1901                        | Determination Of The Emission Of Volatile Organic Compounds And Aldehydes By Building Products - Small Chamber Method   |
| JIS Z 2801                        | Antibacterial products -Test for antibacterial activity and efficacy  |
| LY/T 3230                         | Classification of volatile organic compounds emission contents from wood-based panels and their finishing products  |
| NSF/ANSI/CAN 61                   | Drinking Water System Components-Health Effects   |
| NSF/ANSI/CAN 372                  | Drinking Water System Components-Lead Content   |
| NZS 3640                          | Chemical Preservation of Round and Sawn Timber (Appendix E)   |
| U.S. EPA Compendium Methods TO-17 | Determination of Volatile Organic Compounds in Ambient Air Using Active Sampling Onto Sorbent Tubes   |
| <b>Structural</b>                 |   |
| AAMA 501                          | Methods of Testing for Exterior Walls   |
| AAMA/WDMA/CSA 101/I.S.2/A440      | North American Fenestration Standard/ Specification for windows, doors, and skylights   |
| AISI S904                         | Standard Test Methods for Determining the Tensile and Shear Strengths of Screws   |

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|                     |   |
|---------------------|---|
| AISI S905           | Test methods for mechanically fastened cold-formed steel connections  |
| AISI S913           | Test Standard for Determining the Strength and Deformation Behavior of Hold-Downs Attached to Cold-Formed Steel Structural Framing  |
| AITC T200           | Manufacturing Quality Control Systems Manual for Structural Glued Laminated Timber (AITC 107, Shear test, AITC Test T110, Cyclic Delamination Test and AITC Test T119, Full Size End Joint Tension Test |
| ANSI 405            | Standard for Adhesives for Use in Structural Laminated Timber   |
| ANSI/BIFMA M7.1     | Standard Test Method for Determining VOC Emissions from Office Furniture Systems, Components, and Seating   |
| ANSI/HPVA EF        | American National Standard for Engineered Wood Flooring   |
| ANSI/HPVA HP-1-2016 | Hard wood and decorative wood (Only sections 4.4, 4.5 and 4.6)  |
| ANSI/NALFA LF01     | Laminate flooring - specifications and test methods   |
| APA PRI-400         | Performance Standard for Residential I-Joists   |
| APA PRI-400 CA      | Performance Standard for Residential I-Joists (Limit States Design)   |
| APA PS-1            | Structural Plywood  |
| APA PS-2            | Performance standard for wood-based structural use panels   |
| AS 1391             | Metallic materials - Tensile testing - Method of test at room temperature   |
| AS 1544.2           | Method for impact tests on metals Part 2: Charpy V-notch  |
| AS 1649             | Timber—Methods of test for mechanical fasteners and connectors—Basic working loads and characteristic strengths   |
| AS 2047             | Windows and external glazed doors in buildings  |
| AS 3566.1           | Self-drilling screws for the building and construction industries Part 1: General requirements and mechanical properties  |
| AS 3566.2           | Self-drilling screws for the building and construction industries Part 2: Corrosion resistance requirements   |
| AS 6669             | Plywood—Formwork  |
| AS/NZS 1577         | Scaffold decking components   |
| AS/NZS 4357.0       | Structural laminated veneer lumber - Specifications   |
| AS/NZS 4357.2       | Structural laminated veneer lumber (LVL) - Determination of structural properties - Test methods  |
| AS/NZS 4357.3       | Structural laminated veneer lumber (LVL) - Determination of structural properties - Evaluation methods  |
| ASTM A370           | Standard Test Methods and Definitions for Mechanical Testing of Steel Products  |
| ASTM C954           | Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness           |

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| ASTM C1002        | Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs |
| ASTM C1513        | Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections  |
| ASTM C1856/C1856M | Standard Practice for Fabricating and Testing Specimens of Ultra-High Performance Concrete   |
| ASTM D906         | Standard Test Method for Strength Properties of Adhesives in Plywood Type Construction in Shear by Tension Loading   |
| ASTM D1037        | Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials  |
| ASTM D1151        | Standard Practice for Effect of Moisture and Temperature on Adhesive Bonds   |
| ASTM D1183        | Standard Practices for Resistance of Adhesives to Cyclic Laboratory Aging Conditions   |
| ASTM D1761        | Standard Test Methods for Mechanical Fasteners in Wood   |
| ASTM D1990        | Standard Practice for Establishing Allowable Properties for Visually-Graded Dimension Lumber from In-Grade Tests of Full-Size Specimens                    |
| ASTM D2395        | Standard Test Methods for Density and Specific Gravity (Relative Density) of Wood and Wood-Based Materials   |
| ASTM D2559        | Standard Specification for Adhesives for Bonded Structural Wood Products for Use Under Exterior Exposure Conditions  |
| ASTM D3043        | Standard Test Methods for Structural Panels in Flexure   |
| ASTM D3434        | Standard Test Method for Multiple-Cycle Accelerated Aging Test (Automatic Boil Test) for Exterior Wet Use Wood Adhesives                                   |
| ASTM D4442        | Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials   |
| ASTM D4444        | Standard Test Method for Laboratory Standardization and Calibration of Hand-Held Moisture Meters   |
| ASTM D5456        | Standard Specification for Evaluation of Structural Composite Lumber Products  |
| ASTM D6878/D6878M | Standard Specification for Thermoplastic Polyolefin Based Sheet Roofing  |
| ASTM D7031        | Standard Guide for Evaluating Mechanical and Physical Properties of Wood-Plastic Composite Products  |
| ASTM D7032        | Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite and Plastic Lumber Deck Boards, Stair Treads, Guards, and Handrails |
| ASTM D7247        | Standard Test Method for Evaluating the Shear Strength of Adhesive Bonds in Laminated Wood Products at Elevated Temperatures                               |
| ASTM E18          | Standard Test Methods for Rockwell Hardness of Metallic Materials  |
| ASTM E72          | Standard Test Methods of Conducting Strength Tests of Panels for Building Construction   |

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|                      |  |
|----------------------|--|
| ASTM E96/E96M        | Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials  |
| 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 E330            | Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference                    |
| ASTM E331            | Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference                        |
| ASTM E488/E488M      | Standard Test Methods for Strength of Anchors in Concrete Elements   |
| ASTM E564            | Standard Practice for Static Load Test for Shear Resistance of Framed Walls for Buildings  |
| ASTM E661            | Standard Test Method for Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads                                      |
| ASTM E2126           | Standard Test Methods for Cyclic (Reversed) Load Test for Shear Resistance of Vertical Elements of the Lateral Force Resisting Systems for Buildings                 |
| ASTM E2556/E2556M    | Standard Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment  |
| ASTM F606/F606M      | Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets      |
| ASTM F1575           | Standard Test Method for Determining Bending Yield Moment of Nails   |
| BS EN 13489:2002     | Wood flooring —Multi-layer parquet elements  |
| BS EN 13647:2011     | Wood flooring and wood paneling and cladding —Determination of Geometrical characteristics   |
| CCMC-TG-067314.01-20 | CCMC Technical Guide for Wood Thermoplastic Composite Lumber (WTCL) Exterior Decking (Solid Cross Section)   |
| CSA O112.9           | Evaluation of adhesives for structural wood products (exterior exposure) (Section 4.10.2 Creep Resistance Test only)   |
| CSA O325             | Construction sheathing (Adopted NIST PS 2-18, with Canadian deviations)  |
| EN 323               | Wood-based panels -Determination of density  |
| EN-324               | Wood-based panels-Determination of dimensions of board-Part 2: Determination of squareness and edge straightness   |
| EN 622-5             | Fibreboards - Specifications Part 5: Requirements for dry process boards (MDF)   |
| EN 789               | Timber structures - Test methods - Determination of mechanical properties of wood- based panels  |
| EN 13986             | Wood-based Panels For Use In Construction - Characteristics, Evaluation Of Conformity And Marking (Sections 5.1 to 5.2, 5.13 to 5.15)                                |

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|                 |  |
|-----------------|--|
| GB/T 17657      | Test methods of evaluating the properties of wood-based panels and surface decorated wood-based panels (Sections 4.7 to 4.12, 4.20 to 4.25, 4.51)                    |
| GB/T 18102-2007 | Laminate flooring (Except sections 6.3.8, 6.3.13 and 6.3.18)   |
| GB/T 18103      | Engineered wood flooring   |
| GB/T 20241      | Laminated veneer lumber  |
| GB/T 24137      | Wood-plastic composite decorative boards   |
| GB/T 24508      | Wood-plastic composite flooring  |
| GBT 26899       | Structural glued laminated timber  |
| ICC-ES AC04     | Acceptance Criteria For Sandwich Panels  |
| ICC-ES AC05     | Acceptance Criteria for Sandwich Panel Adhesives   |
| ICC-ES AC07     | Acceptance Criteria for Special Roofing Systems (Section 3.2.6 and Section 4.9 only)   |
| ICC ES AC15     | Acceptance Criteria for Concrete Floor, Roof and Wall Systems, and Concrete Masonry Wall Systems   |
| ICC ES AC25     | Acceptance Criteria for Metal Composite Material (MCM)   |
| ICC-ES AC38     | Acceptance Criteria For Water-Resistive Barriers   |
| ICC-ES AC48     | Acceptance Criteria for Self-Adhered Roof Underlayments For use AS ICE Barriers  |
| ICC ES AC70     | Power actuated fasteners driven into concrete, steel and masonry elements (test methods found in sections 3.1.3, 3.1.4, 3.3.5 and 4.0)                               |
| ICC ES AC116    | Nails (test methods found in sections 3.0 and 4.0 except Section 3.3.1.2)  |
| ICC ES AC118    | Tapping Screw Fasteners (test methods found in sections 3.0 and 4.0 except Section 3.1.1.1)  |
| ICC ES AC174    | Deck board span ratings and guardrail systems (guards and handrails) (test methods found in sections 3.0, 4.0 and 5.0)   |
| ICC-ES AC188    | Acceptance Criteria For Roof Underlayments (except section 3.3)  |
| ICC-ES AC193    | Acceptance Criteria for Mechanical Anchors in Concrete Elements  |
| ICC-ES AC233    | Acceptance Criteria for Dowel-Type Threaded Fasteners Used In Wood   |
| ICC-ES AC257    | Corrosion resistant fasteners and evaluation of corrosion effects of wood treatment chemicals (test methods found in sections 3.1.3, 3.1.8, 4.1.7, 4.3 and 4.5 only) |
| ICC-ES AC283    | Acceptance Criteria For Metal Hinge Plate Connectors For Wood Trusses  |
| ICC ES AC326    | Acceptance Criteria for Proprietary wood Preservative Systems—Common Requirements For Treatment Process, Test Methods and Performance                                |
| ICC-ES AC365    | Acceptance Criteria for Building-integrated Photovoltaic (BIPV) Roof Covering Systems  |

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|              |   |
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| ICC ES AC377 | Acceptance Criteria For Spray-Applied Foam Plastic Insulation   |
| ICC-ES AC386 | Acceptance Criteria for Fiber-reinforced Magnesium-oxide-based Sheets   |
| ICC-ES AC500 | Acceptance Criteria for Self-Drilling Tapping Screws Used to Attach Miscellaneous Building Materials to Steel Base Material |
| ICC ES AC543 | Acceptance Criteria for Structural Performance of Modular Buildings   |
| ISO 22389-2  | Timber structures — Bending applications of I-beams — Part 2: Component performance and manufacturing requirements          |
| JIS A 5905   | Fiberboards   |
| JIS A 5908   | Particleboards  |

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