



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Wiss, Janney, Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, Illinois 60062

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 22 April 2024

Certificate Number: AT-2564



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Wiss, Janney, Elstner Associates, Inc.

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TESTING

Valid to: **April 22, 2024**

Certificate Number: **AT-2564**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Chemical Analysis	ASTM A238, A751, B748, C114, C150, C233, C260, C289, C311, C494, C595, C618, C876, C1017, C1084, C1152, C1218, C1240, C1324, C1602, C1702, D512, D516, D4327, D6919, E34, E53, E70, E106, E350, E351, E352, E353, E415, E478, E536, E1019, E1024, E1086, E1251, E1252, E1508 AASHTO T26	Admixture, Aggregate, Anchors, Brick, Cement, Clay, Concrete, Concrete Masonry Unit (CMU), Epoxy, Fasteners, Fiber, Fly Ash, Grout, Metals, Mortar, Pozzolans, Rebar, Semi-Finished and Finished Components, Slate, Silica Fume, Steel, Stone, Tile, Water	Atomic Absorption (AA), Ion Chromatography (IC), Energy Dispersive Spectroscopy (EDS), LECO, Optical Emission Spectroscopy (OES), Scanning Electron Microscopy (SEM)



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Construction Materials

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Chemical Analysis	ASTM C114, C233, C289, C1017, C1084, C1152, C1218, C1324, D512, D516, D4327, D6919, E34, E53, E70, E350, E351, E352, E353, E415, E478, E536, E1019, E1024, E1086, E1251, E1252 AASHTO T26	Admixture, Aggregate, Anchors, Brick, Cement, Clay, Concrete, Concrete Masonry Unit (CMU), Epoxy, Fasteners, Fiber, Fly Ash, Grout, Metals, Mortar, Pozzolans, Rebar, Semi-Finished and Finished Components, Slate, Silica Fume, Steel, Stone, Tile, Water	Alkali-Silica Reaction (ASR), Atomic Absorption (AA), Chloride, Infrared Spectra, Ion Chromatography (IC), LECO, Optical Emission Spectroscopy (OES), pH, Sulfur
Corrosion Analysis	ASTM C876	Steel in Concrete	Half-Cell, Copper-Sulfate Reference Electrode
Fenestration and Roofing Testing	ASTM E330, E331, E1105 TAS 114 (excluding Appendix A), 124	Curtain Walls, Doors, Roofing, Skylights, Windows	Uplift, Pressure, Water Leakage
Material Characterization and Evaluation	ASTM A90, A247, A309, A428, C33, C40, C126, C144, C150, C260, C294, C311, C404, C406, C494, C511, C595, C618, C637, C1077, C1157, C1240, C1602, E45, E53, E112, F606, F710, F788, F812, F1869, F2170, F2659, G154 SAE J123	Admixture, Aggregate, Anchors, Brick, Cement, Clay, Concrete, Concrete Masonry Unit (CMU), Epoxy, Fasteners, Fiber, Fly Ash, Grout, Metals, Mortar, Pozzolans, Rebar, Semi-Finished and Finished Components, Slate, Silica Fume, Steel, Stone, Tile, Water	Cement and Concrete Performance, Consulting, Durability, Moisture Testing, Product Development
Moisture Testing	ASTM C1498, C1794, E96, F1869, F2170, F2659	Brick, Ceramic, Concrete, Concrete Masonry, Gypsum, Insulation, Membranes, Slate, Stone, Wood	Hygrothermal, Sorption, Water Absorption Coefficient, Water Vapor Transmission, WUFI



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Construction Materials

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Petrographic and Microscopic Examination	ASTM A90, A309, A428, B487, B748, C295, C457, C856, C1084, C1324, C1723, E2809	Admixture, Aggregate, Anchors, Brick, Cement, Clay, Concrete, Concrete Masonry Unit (CMU), Epoxy, Fasteners, Fiber, Fly Ash, Grout, Metals, Mortar, Pozzolans, Rebar, Semi-Finished and Finished Components, Slate, Silica Fume, Steel, Stone, Tile, Water	Air-Void Analysis, Coating Thickness, Paint, Scanning Electron Microscope (SEM)
Physical Testing	ASTM A239, C29, C31, C39, C42, C67, C78, C88, C97, C99, C109, C117, C120, C121, C123, C125, C127, C128, C136, C138, C140, C142, C143, C151, C157, C170, C172, C174, C183, C185, C187, C188, C191, C192, C204, C215, C217, C231, C233, C293, C305, C311, C403, C426, C430, C469, C490, C496, C512, C566, C617, C666, C672, C702, C880, C944, C1194, C1195, C1012, C1038, C1064, C1074, C1202, C1222, C1260, C1293, C1314, C1437, C1542, C1552, C1556, C1567, C1581, C1583, C1609, C1856, D75, E329, E518 (Method A), E519 AASHTO T277, T303, T336, T357, T358 ICC-ES AC32, AC51, AC509 (except sections 3.3 and 3.4) ICRI 210.3R CSA A3004-C8	Admixture, Aggregate, Anchors, Brick, Cement, Clay, Concrete, Concrete Masonry Unit (CMU), Epoxy, Fasteners, Fiber, Fly Ash, Grout, Mortar, Pozzolans, Rebar, Slate, Silica Fume, Steel, Stone, Tile, Ultra-High Performance Concrete (UHPC), Water	Absorption, Air Content, Autoclave Expansion, Chloride Diffusion, Chloride Resistance, Coefficient of Thermal Expansion, Compressive Strength, Creep, Cyclic Testing, Density, Durability, Fineness, Flexural Strength, Freeze and Thaw, Length Change, Metallic Coating, Modulus of Elasticity (MoE), Poisson's Ratio, Scanning Electron Microscope (SEM), Service Life Modeling, Shrinkage, Sieve Analysis, Slump, Specific Gravity, Temperature, Tensile Strength, Voids, Yield



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Construction Materials

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Thermal Analysis	ASTM C1046, C1155, C1679, C1702, C1872, D3418, D3895, D6370, D6382, D6580, E793, E794, E928, E1131, E1269, E1356, E1641, E1868, E1877, E2160, E2550	Admixture, Aggregate, Brick, Cement, Clay, Concrete, Epoxy, Grout, High Performance Buildings, Mortar, Supplementary Cementitious Materials, Polymers, Polymer-Based Construction Materials	Calorimetry, Differential Scanning Calorimetry, Heat of Hydration, R-Value Measurement, Thermogravimetric Analysis

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Hardness Testing	ASTM A370, B294, E18, E140, E384, F606	Metals, Fasteners, Raw Materials, Semi-Finished and Finished Components	Leica and Leco Microhardness Testers, Wilson Rockwell Hardness Testers
Metallography	ASTM A262 (Practice A), A604, B487, B748, E3, E112, E45, E340, E381, E407, E1077, E1268, F788, F812, F2328 SAE J123, J419, J423	Metals, Fasteners, Raw Materials, Semi-Finished and Finished Components	Banding/Orientation of Microstructures and Microstructural Identifications, Case Depth, Corrosion Evaluations, Depth of Decarburization, Discontinuities, Failure Analysis, Failure Mode Determination, Fractography, Grain Size (Comparison), Inclusion Ratings, Intergranular Susceptibility (Corrosion), Macroetch, Metallographic Preparation, Microetch, Plating Thickness,



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Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
<p>Structural and Strength Testing</p>	<p>ANSI/AWS Standard D1.4</p> <p>ASTM A370, A421, A615, A648, A706, A767, A775, A881, A955, A970, A996, A1034, A1035, A1044, A1061, A1081, B209, B557, C297, C393, D638, D695, D732, D790, E8, E72, E328, E488, E564, E1190, E1512, F1470, F3125</p> <p>California Test 670</p> <p>ICC-ES AC01, AC32, AC58, AC70, AC106, AC133, AC193, AC269, AC303, AC308, AC347, AC395, AC447 (except section 4.4.8)</p> <p>BS 4449:2005+A3, 8539, 8597</p> <p>BS EN 13391</p> <p>BS EN ISO 6892-1, 15630-1, 15630-2, 15630-3</p> <p>ISO 15698-1, 15698-2, 15835-1, 15835-2, 15835-3</p> <p>EOTA EAD 160004, EAD 330232, TR048</p> <p>ICC-ES AC118, AC500;</p> <p>ACI 355.2, 355.4, 423.7;</p> <p>PTI M10</p>	<p>Anchors, Fasteners, Fiber, Pipe, Plastic, Rebar, Slate, Steel, Prestressing Steel, Rebar Couplers, Headed Rebars</p>	<p>Compression, Flexure, Relaxation, Shear, Tension</p>

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2564.



R. Douglas Leonard Jr., VP, PILR SBU

