



CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

Gateway Materials Test Center
2901 East Gate City Blvd., Suite G300
Greensboro, NO 27401

has been assessed by ANAB and meets the requirements of international standard

ISO/IEC 17025:2017

while demonstrating technical competence in the fields of

CALIBRATION and TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

ACT-2020

Certificate Number

ANAB Approval

Certificate Valid Through: 12/22/2021
Version No. 006 Issued: 11/26/2019



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).



ANSI National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Gateway Materials Test Center

2901 East Gate City Blvd., Suite G300
Greensboro, NC 27401

Evan Kimbro evank@gatewayurp.com Phone: 336 217 5184
Joshua Tucker josht@gatewayurp.com Phone: 336 217 5185
www.gatewaymaterialstestcenter.com

CALIBRATION AND TESTING

Valid to: **December 22, 2021**

Certificate Number: **ACT-2020**

Testing

Mechanical

| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|---|--|------------------------------------|-----------------------------|
| Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates | ASTM D2344/D2344M – 16 GMTC-3011 | Composites | Instron Load Frame |
| Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials | ASTM D3039/D3039M – 14 GMTC-3008 | Composites | Instron Load Frame |
| Standard Test Method for Shear Properties of Composite Materials by the V-Notched Beam Method | ASTM D5379/D5379M – 12 GMTC-3010 | Composites | Instron Load Frame |
| Standard Test Method for Open-Hole Compressive Strength of Polymer Matrix Composite Laminates | ASTM D6484/D6484M – 14 GMTC-3012 | Composites | Instron Load Frame |
| Standard Test Method for Compressive Properties of Polymer Matrix Composite Materials Using a Combined Loading compression (CLC) Test Fixture | ASTM D6641/D6641M-16e1 GMTC-3009 | Composites | |
| Standard Test Method for Flexural Properties of Polymer Matrix Composite Materials | ASTM D7264/D7264M – 15 GMTC-3013 | Composites | Instron Load Frame |



Mechanical

| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|--|---|---|--------------------------------------|
| Standard Test Method for Climbing Drum Peel for Adhesives | ASTM D1781-98(2012) GMTC-3104 | Sandwich Core | Instron Load Frame |
| Standard Test Method for Shear Properties of Sandwich core Materials | ASTM C273/C273M – 16 GMTC-3102 | Sandwich Core | |
| Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions | ASTM C297/C297M-16 GMTC-3107 | Sandwich Core | |
| Standard Test Method for Edgewise Compressive Strength of Sandwich Constructions | ASTM C364/C364M-16 GMTC-3103 | Sandwich Core | |
| Standard Test Method for Flatwise Compressive Properties of Sandwich Cores | ASTM C365/C365M-16 GMTC-3108 | Sandwich Core | Instron Load Frame |
| Standard Test Method for Core Shear Properties of Sandwich Constructions by Beam Flexure | ASTM C393/C393M-16 GMTC-3105 | Sandwich Core | Instron Load Frame |
| Standard Test Method for Density of Sandwich Core Materials | ASTM C271/C271M-16 GMTC-3106 | Sandwich Core | Balance Micrometer Height Gage |
| Standard Test Method for Breaking Strength and Elongation of Textile Webbing, Tape and Braided Material | ASTM D6775 – 13 GMTC-3306 | Textiles | Instron Load Frame |
| Interlaminar Fracture Toughness by Double Cantilever Beam Method | Boeing BSS-7273 GMTC-3110 | Composites | Instron Load Frame |
| Standard Test Method for Peel Adhesion of Pressure-Sensitive Tape-Test Methods A&F | ASTM D3330-04(2010) GMTC-3202 (Method F) GMTC-3203 (Method A) | Composites | Instron Load Frame |
| Standard Test Method for Apparent Shear Strength of Single-Lap-Joint Adhesively Bonded Metal specimens by Tension Loading (Metal-to-Metal) | ASTM D1002-10 GMTC-3204 | Metals | Instron Load Frame |



Mechanical

| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|--|--|------------------------------------|-----------------------------|
| Standard Test Method for Strength Properties of Adhesives in Shear by Tension Loading of Single-Lap-Joint Laminated Assemblies | ASTM D3165-07(2014) GMTC-3201 | Composites/Metals | Instron Load Frame |
| Standard Test Method for Tension Testing of Metallic Materials | ASTM E8/E8M-16a GMTC-3205 | Metals | Instron Load Frame |
| Standard Test Method for Rubber Property—Durometer Hardness | ASTM D2240-15 GMTC-3023 | Plastic/Rubber | Durometer |

Calibration

Mass and Mass Related

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|-------------------------|------------------|---|--|
| Load Cells ¹ | Up to 50 000 lbs | 0.118 + 0.000 7 RDG | Load Cells, Weights |


Length – Dimensional Measurement

| Parameter/Equipment | Range | Expanded Uncertainty of Measurement (+/-) | Reference Standard, Method, and/or Equipment |
|---|-------------|---|--|
| Calipers ¹ | Up to 12 in | 270 + 58L | Gage Blocks |
| Micrometers ¹ | Up to 12 in | 52 + 32L | Gage Blocks |
| Height Gages ¹ | Up to 24 in | 420 + 24L | Gage Blocks |
| Extensometers ¹ | Up to 2 in | Gauge Length: 530 + 200L Extension: 24 + 80L | Gage Blocks |
| Universal Testing Machines ¹ | Up to 24 in | 105 + 16L | Gage Blocks |

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Note:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. ACT-2020.



Vice President

