



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

**Manufacturing Solutions Center
a.k.a Hosiery Technology Center
A division of Catawba Valley Community College
301 Conover Station SE
Conover, NC 28613**

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 be 'J. Stine', is positioned above a horizontal line.

Jason Stine, Vice President

Expiry Date: 01 February 2027

Certificate Number: L2238



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

**Manufacturing Solutions Center
a.k.a. Hosiery Technology Center
A division of Catawba Valley Community College**

301 Conover Station SE
Conover, NC 28613
Kathy Alexander
828 327 7000 ext. 4151

TESTING

Valid to: **February 01, 2027**

Certificate Number: **L2238**

Microbiological

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Assessment of Antibacterial Finishes (See Notes 2 and 3)	AATCC 100	Textiles	Spectrophotometer, Hoods, Incubators, Automatic Enumeration systems (Tempo, Q-counter)
Antibacterial Activity: Parallel Streak Method (See Notes 2 and 3)	AATCC 147	Textiles	Hoods, Incubators
Antimicrobial Activity (See Note 2)	ASTM E2149	Textiles	Spectrophotometer, Hoods, Incubators, Automatic Enumeration systems (Tempo, Q-counter)



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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
Flammability	16 CFR 1610 ASTM D1230	Clothing Textiles	Flammability Test Chamber
Breaking Strength/ Elongation of Textile Fabrics (Grab Test) (See Note 4)	ASTM D5034	Textiles	CRE Tensile Testing Machine
Tearing Strength of Fabrics - Trapezoid (See Note 4)	ASTM D5587	Textiles	CRE Tensile Testing Machine
Tearing Strength of nonwoven fabrics - Trapezoid (See Note 4)	ASTM D5733-99	Textiles	CRE Tensile Testing Machine
Mass per unit Area (See Note 4)	ASTM D3776	Textiles	Gravimetric
Water Resistance: Impact Penetration (See note 7)	AATCC TM 42 And also, as Referenced in ANSI/AAMI PB70	Textiles	Impact Penetration Type I Tester
Water Resistance: Hydrostatic Pressure Test	AATCC TM 127 And also, as Referenced in ANSI/AAMI PB70	Textiles	Hydrostatic Head Tester
Failure in Sewn Seams of Woven Fabrics (Seam Strength)	ASTM D1683/D1683M – Seam Strength Sections only	Textiles	CRE Tensile Testing Machine

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
General Purpose Office Chairs - Seating Durability Tests – Cyclic	ANSI/BIFMA X5.1, Section 10	Furniture	Drop Tester Universal Tester
General Purpose Office Chairs - Stability Tests (See Note 6) (See Note 6)	ANSI/BIFMA X5.1, Section 11	Furniture	Universal Tester
General Purpose Office Chairs - Footrest Static Load Test – Vertical	ANSI/BIFMA X5.1, Section 18	Furniture	Universal Tester
General Purpose Office Chairs - Footrest Durability Test – Vertical – Cyclic	ANSI/BIFMA X5.1, Section 19	Furniture	Universal Tester
General Purpose Office Chairs - Structural Durability	ANSI/BIFMA X5.1, Section 24	Furniture	Universal Tester
Public and Lounge Seating – Backrest Strength Test – Horizontal – Static (See Note 6)	ANSI/BIFMA X5.4, Section 5	Furniture	Universal Tester
Public and Lounge Seating – Backrest Strength Test – Vertical - Static	ANSI/BIFMA X5.4, Section 6	Furniture	Universal Tester
Public and Lounge Seating – Backrest Durability Test – Horizontal – Cyclic (See Note 6)	ANSI/BIFMA X5.4, Section 7	Furniture	Universal Tester



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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
Public and Lounge Seating – Backrest Durability Test – Vertical - Cyclic	ANSI/BIFMA X5.4, Section 8	Furniture	Universal Tester
Public and Lounge Seating – Arm Strength Test – Horizontal – Static	ANSI/BIFMA X5.4, Section 9	Furniture	Universal Tester
Public and Lounge Seating – Arm Strength Test – Vertical – Static	ANSI/BIFMA X5.4, Section 10	Furniture	Universal Tester
Public and Lounge Seating – Arm Durability Test – Horizontal – Cyclic	ANSI/BIFMA X5.4, Section 11	Furniture	Universal Tester
Public and Lounge Seating – Arm Durability Test for Multiple Seating Units – Vertical – Cyclic	ANSI/BIFMA X5.4, Section 12	Furniture	Universal Tester
Public and Lounge Seating – Arm Durability Test for Single Seating Units – Angular – Cyclic	ANSI/BIFMA X5.4, Section 13	Furniture	Universal Tester
Public and Lounge Seating – Seating Durability Tests - Cyclic	ANSI/BIFMA X5.4, Section 14	Furniture	Drop tester
Public and Lounge Seating – Drop Test – Dynamic	ANSI/BIFMA X5.4, Section 15	Furniture	Hoist
Public and Lounge Seating – Leg Strength Test – Front and Side Application	ANSI/BIFMA X5.4, Section 16	Furniture	Universal Tester
Public and Lounge Seating – Unit Drop Test – Dynamic	ANSI/BIFMA X5.4, Section 17	Furniture	Hoist
Public and Lounge Seating – Stability Tests	ANSI/BIFMA X5.4, Section 21	Furniture	Universal Tester

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Public and Lounge Seating – Structural Durability Test – Side-to-side – Cyclic	ANSI/BIFMA X5.4, Section 24	Furniture	Universal Tester
General Purpose large Occupant Office Chairs - Seating Durability Tests - Cyclic	ANSI/BIFMA X5.11, Section 11	Furniture	Drop Tester Universal Tester
Desk/Table Products – Tests Stability Under Vertical Load Test	ANSI/BIFMA X5.5, Section 4.3	Furniture – Desk/Tables	Force Disks Weight Bags
Desk/Table Products – Tests Concentrated Functional Load Test	ANSI/BIFMA X5.5, Section 5.2	Furniture – Desk/Tables	Force Disks Weight Bags
Desk/Table Products – Tests Distributed Functional Load Test	ANSI/BIFMA X5.5, Section 5.3	Furniture – Desk/Tables	Weight Bags
Desk/Table Products – Tests Concentrated proof Load Test	ANSI/BIFMA X5.5, Section 5.4	Furniture – Desk/Tables	Force Disks Weight Bags
Desk/Table Products – Tests Distributed Proof Load Test	ANSI/BIFMA X5.5, Section 5.5	Furniture – Desk/Tables	Weight Bags
Desk/Table Products – Tests Top Load Ease Test	ANSI/BIFMA X5.5, Section 6	Furniture – Desk/Tables	Universal Tester
Desk/Table Products – Tests Desk/Table Unit Drop Test	ANSI/BIFMA X5.5, Section 7	Furniture – Desk/Tables	Hoist
Desk/Table Products – Tests Leg Strength Test	ANSI/BIFMA X5.5, Section 8	Furniture – Desk/Tables	Universal Tester
Standard Safety Specification for Clothing Storage Units Excluding section 9.3.3	16 CFR 1261 ASTM F2057-23	Furniture	Force gauge Weights
Standard Performance Specification for Tipover Restraints Used with Clothing Storage Units	ASTM F3096	Furniture	Force gauge

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. L2238.
2. Automatic Enumeration systems are used in the Antimicrobial test methods.
3. Culture storage at 5 +/- 2 deg C.
4. Conditioning: Temperature at 21 +/- 2 deg C; Humidity at 65 +/- 5% RH.
5. This laboratory offers commercial testing service.
6. Modified Chair Measuring Device used.
7. Water testing conditions: Temperature at 21 +/- 2 deg C; Humidity at 65 +/- 5% RH



Jason Stine, Vice President

