



# CERTIFICATE OF ACCREDITATION

## ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

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

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

## ISO/IEC 17025:2017

while demonstrating technical competence in the fields of

## TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations and/or tests to which this accreditation applies.

L2238

Certificate Number

  
ANAB Approval

Certificate Valid: 12/12/2018-02/01/2022  
Version No. 002 Issued: 12/12/2018



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 Winters  
828-327-7000 ext. 4151

**TESTING**

Valid to: **February 01, 2022**

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<br>(See Notes 2 and 3)           | AATCC 100  | Textiles                           | Spectrophotometer, Hoods, Incubators, Automatic Enumeration systems (Tempo, Q-counter) |
| Antibacterial Activity: Parallel Streak Method<br>(See Notes 2 and 3) | AATCC 147  | Textiles                           | Hoods, Incubators  |
| Antimicrobial Activity<br>(See Note 2)                                | ASTM E2149   | Textiles                           | Spectrophotometer, Hoods, Incubators, Automatic Enumeration systems (Tempo, Q-counter) |

**Thermal**

| 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<br>ASTM D1230                          | Clothing Textiles                  | Flammability Test Chamber   |



**Mechanical**

| Specific Tests and/or Properties Measured  | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology     |
|--|--|------------------------------------|---------------------------------|
| Breaking Strength/<br>Elongation of Textile<br>Fabrics (Grab Test)<br><br>(See Note 4)             | ASTM D5034   | Textiles                           | CRE Tensile Testing Machine     |
| Tearing Strength of Fabrics<br>- Trapezoid<br><br>(See Note 4)                                     | ASTM D5587   | Textiles                           | CRE Tensile Testing Machine     |
| Tearing Strength of<br>nonwoven fabrics -<br>Trapezoid<br><br>(See Note 4)                         | ASTM D5733-99                                      | Textiles                           | CRE Tensile Testing Machine     |
| Mass per unit Area<br><br>(See Note 4)   | ASTM D3776   | Textiles                           | Gravimetric                     |
| General Purpose Office Chairs<br>- Seating Durability Tests –<br>Cyclic                            | ANSI/BIFMA X5.1, Section<br>10                     | Furniture                          | Drop Tester<br>Universal Tester |
| General Purpose Office Chairs<br>- Stability Tests<br><br>(See Note 6)                             | ANSI/BIFMA X5.1, Section<br>11                     | Furniture                          | Universal Tester                |
| General Purpose Office Chairs<br>- Footrest Static Load Test –<br>Vertical                         | ANSI/BIFMA X5.1, Section<br>18                     | Furniture                          | Universal Tester                |
| General Purpose Office Chairs<br>- Footrest Durability Test –<br>Vertical – Cyclic                 | ANSI/BIFMA X5.1, Section<br>19                     | Furniture                          | Universal Tester                |
| General Purpose Office Chairs<br>- Structural Durability   | ANSI/BIFMA X5.1, Section<br>24                     | Furniture                          | Universal Tester                |
| Lounge and Public Seating –<br>Backrest Strength Test –<br>Horizontal – Static<br><br>(See Note 6) | ANSI/BIFMA X5.4, Section 5                         | Furniture                          | Universal Tester                |



**Mechanical**

| <b>Specific Tests and/or Properties Measured</b>   | <b>Specification, Standard, Method, or Test Technique</b> | <b>Items, Materials or Product Tested</b> | <b>Key Equipment or Technology</b> |
|--|---|---|------------------------------------|
| Lounge and Public Seating – Backrest Strength Test – Vertical - Static                         | ANSI/BIFMA X5.4, Section 6                                | Furniture                                 | Universal Tester                   |
| Lounge and Public Seating – Backrest Durability Test – Horizontal – Cyclic<br><br>(See Note 6) | ANSI/BIFMA X5.4, Section 7                                | Furniture                                 | Universal Tester                   |
| Lounge and Public Seating – Backrest Durability Test – Vertical - Cyclic                       | ANSI/BIFMA X5.4, Section 8                                | Furniture                                 | Universal Tester                   |
| Lounge and Public Seating – Arm Strength Test – Horizontal – Static                            | ANSI/BIFMA X5.4, Section 9                                | Furniture                                 | Universal Tester                   |
| Lounge and Public Seating – Arm Strength Test – Vertical – Static                              | ANSI/BIFMA X5.4, Section 10                               | Furniture                                 | Universal Tester                   |
| Lounge and Public Seating – Arm Durability Test – Horizontal – Cyclic                          | ANSI/BIFMA X5.4, Section 11                               | Furniture                                 | Universal Tester                   |
| Lounge and Public Seating – Arm Durability Test for Multiple Seating Units – Vertical – Cyclic | ANSI/BIFMA X5.4, Section 12                               | Furniture                                 | Universal Tester                   |
| Lounge and Public Seating – Arm Durability Test for Single Seating Units – Angular – Cyclic    | ANSI/BIFMA X5.4, Section 13                               | 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     |
|--|--|------------------------------------|---------------------------------|
| Lounge and Public Seating – Drop Test - Dynamic                                  | ANSI/BIFMA X5.4, Section 15                        | Furniture                          | Hoist                           |
| Lounge and Public Seating – Leg Strength Test – Front and Side Application       | ANSI/BIFMA X5.4, Section 16                        | Furniture                          | Universal Tester                |
| Lounge and Public Seating – Unit Drop Test - Dynamic                             | ANSI/BIFMA X5.4, Section 17                        | Furniture                          | Hoist                           |
| General Purpose large Occupant Office Chairs - Seating Durability Tests - Cyclic | ANSI/BIFMA X5.11, Section 11                       | Furniture                          | Drop Tester<br>Universal Tester |
| Desk/Table Products – Tests Stability Under Vertical Load Test                   | ANSI/BIFMA X5.5, section 4.3                       | Furniture – Desk/Tables            | Force Disks<br>Weight Bags      |
| Desk/Table Products – Tests Concentrated Functional Load Test                    | ANSI/BIFMA X5.5, section 5.2                       | Furniture – Desk/Tables            | Force Disks<br>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<br>Weight Bags      |
| Desk/Table Products – Tests Distributed Proof Load Test                          | ANSI/BIFMA X5.5, section 5.5                       | Furniture – Desk/Tables            | Weight Bags                     |

**Mechanical**

| Specific Tests and/or Properties Measured   | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|---|--|------------------------------------|-----------------------------|
| Desk/Table Products – Tests<br>Top Load Ease Test   | ANSI/BIFMA X5.5, section 6                         | Furniture – Desk/Tables            | Universal Tester            |
| Desk/Table Products – Tests<br>Desk/Table Unit Drop Test  | ANSI/BIFMA X5.5, section 7                         | Furniture – Desk/Tables            | Hoist                       |
| Desk/Table Products – Tests<br>Leg Strength Test  | ANSI/BIFMA X5.5, section 8                         | Furniture – Desk/Tables            | Universal Tester            |
| Furniture – Tables – Test<br>Methods for the<br>Determination of Stability,<br>Strength, and Durability –<br>Horizontal Durability Test | BS EN 1730, section 6.4.2                          | Furniture - Tables                 | Universal Tester            |

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.




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Vice President

