



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC. ¹

One Distribution Center Circle, Suite # 1

Littleton, MA 01460

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MECHANICAL

Valid until: July 31, 2025

Certificate Number: 1627.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, ***as well as the one satellite laboratory location listed below***, to perform the following tests on the following types of products: Environmental, Medical, Consumer, Industrial, Automotive, Commercial, Telecommunications, Military, Marine, Test & Measurement, Lighting, Outdoor, Aerospace:

<u>Test Type/ Test Capabilities*:</u>	<u>Test Method(s) ²:</u>
Acoustic	GR-63-CORE; ISO 7779; ISO 3744; GR-487-CORE
Ingress Protection (IP)	IEC 60529, EN 60529 Sections IPX1-8; ETS 300 019-2-2; IEC 60068-2-18, Sections 1.2 and 2.2; EN 60068-2-18, Sections 1.2 and 2.2
Ultraviolet Resistance	GR-487-CORE; ASTM G155; ISO 4892-2
Water Resistance Rain, Lawn Sprinkler, Immersion	GR-487-CORE; GR-950-CORE

¹ This accreditation covers testing performed at the main laboratory listed above, and the one satellite laboratory listed below:

BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC.
168 Ayer Rd.
Littleton, MA 01460

<u>Test Type/ Test Capabilities*:</u>	<u>Test Method(s) ²:</u>
<i>Thermal</i>	
Temperature Tests * (-70 to 125) °C	GR-63-CORE; GR-3160 CORE; ETS 300 019-2-1/IEC 60068-2-1 Ab/EN 60068-2-1 Ab; ETS 300 019-2-1/IEC 60068-2-2 Bb/EN 60068-2-2 Bb; MIL-STD-810G; MIL-STD-810H
Temperature and Humidity Tests * (-70 to 125) °C (10 to 95) %RH	ETS 300 019-2-3/IEC-60068-2-30 Db, -14 Nb, -1 Ab/Ad, -2 Bb/Bd, -56 Cb, -78 Cab; GMW 3172; GR-49-CORE; GR-63-CORE; GR-418-CORE; GR-950-CORE; GR-3160 CORE; MIL-STD-810G; MIL-STD-810H
Thermal Shock / Aging * (-70 to 125) °C	GR-487-CORE, Sections 3.27 and 3.34.2; GR-49-CORE; GR-950-CORE; GR-3108-CORE; MIL-STD-810G; MIL-STD-810H; Chrysler/Fiat CS 11982
Altitude * 60m below to 20,000m above sea level	GR-63-CORE; GR-3160 CORE; MIL-STD-810G; MIL-STD-810H; IEC 60068-2-13 (80 to 208 mbar)
Heat Dissipation (Power)	GR-63-CORE; GR-3160 CORE
Heat Dissipation (Surface Temp)	GR-63-CORE; GR-3160 CORE
Freeze/Thaw	GR-950
Solar Load: Exposure to High Temperature	GR-487-CORE; GR-3108-CORE
<i>Flammability</i>	
Needle Flame	GR-63-CORE; GR-3160 CORE; ATIS 0600307.2014; IEC 60695-11-5
50W and 500W Flame Test	IEC 60695-11-3; IEC 60695-11-4; UL 746C
Vertical and Horizontal Burn Test	UL 94
<i>Mechanical *</i>	
Ingress Protection (IP)	IEC 60529, Sections IP1-6X; ETS 300 019-2-2/IEC 60068-2-18, Sections 1.2 and 2.2



<u>Test Type/ Test Capabilities*:</u>	<u>Test Method(s) ²:</u>
Fire Burn (GR63/Verizon)	GR-63-CORE; GR-3160 CORE; ATIS 0600319.2014
Drop Tests * Packaged / Unpackaged Handling Up to 48"	ETS 300 019-2-2/IEC 60068-2-32 Ed; ETS 300 019-2-3/68-2-27 Ea; GMW 3172; GR-63-CORE; GR-3160 CORE; GR-487-CORE; GR-950-CORE; MIL-STD-810G; MIL-STD-810H
Vibration * Earthquake: Operating Vibration Hydraulic: (1 to 600) Hz, 10g Electro-dynamic: (1 to 3,500) Hz, 100g	GR-63-CORE; GR-487-CORE; GR-3160 CORE; ETS 300 019-2-2; IEC 60068-2-6 Fc, -64 Fh; EN 60068-2-6 Fc, -64 Fh; ETS 300 019-2-3; IEC 60068-2-57 Ef; EN 60068-2-57 Ef; ETS 300 019-2-3; IEC 60068-2-6 Fc, -64 Fh; EN 60068-2-6 Fc, -64 Fh; MIL-STD-810G; MIL-STD-810H
Shock (Bump)	ETS 300 019-2-3/68-2-27 Ea; MIL-STD-810G; MIL-STD-810H
Illumination	GR-63-CORE; GR-3160 CORE
Door Restrainers (Vertically-hinged Doors)	GR-487-CORE
Horizontally-hinged Doors	GR-487-CORE
Lifting Details	GR-487-CORE
Pole Mounted, Aerial Cabinets (Except CR3-203 5000 lb. load)	GR-487-CORE (R3-165, R3-168)
Wind Resistance	GR-487-CORE
Impact Resistance	GR-487-CORE; GR-950-CORE; GR-49-CORE
Coating Defects	GR-950-CORE
Bond Clamp Retention	GR-950-CORE
Sheath Retention	GR-950-CORE
Cable Flexing	GR-950-CORE
Cable Torsion	GR-950-CORE
Compression	GR-950-CORE

<u>Test Type/ Test Capabilities*:</u>	<u>Test Method(s) ²:</u>
Assembly	GR-950-CORE
Metal Coating Flexibility	GR-487-CORE; ASTM D2794
<i>Chemical</i>	
Polymeric and Other Non-Metallic Materials-Chemical Resistance	GR-950-CORE; GR-487-CORE
Hygroscopic Dust	GR-63-CORE; GR-3108-CORE
Salt Fog / Corrosion	GR-487-CORE; GR-950-CORE; GR-3108-CORE; ASTM B117; MIL-STD-810G; MIL-STD-810H; IEC 60068-2-11 Ka
<i>Marine Standards</i> (Thermal / Mechanical / Chemical / Electrical)	DNVGL Class Guideline 0339 November 2019; Lloyd's Register Type Approval System Test Specification Number 1, December 2020; IACS UR E10 Rev.7, 2018; ABS Steel Vessels 2019 Part 4, Chapter 9, Section 8; ABS High Speed Craft 2020, Part 4, Chapter 7, Section 9; BV Marine Rules NR467 January 2020, Part C, Chapter 3, Sec 6; 46 CFR Part 162.060-30; DNVGL CG-0339; MEPC.174(58); MEPC 107(49) Part 3; BV BWMS Guidance Note NI 538 DT R01 E
<i>Automotive Standards</i> (Thermal / Mechanical / Chemical / Electrical)	VW 8000; MBN LV124; BMW-LV-124; LV-124

The methods listed above on this Scope are accredited. The following test methods are guidelines utilized to perform the above test types for Verizon and AT&T:

Verizon NEBS Compliance Clarification Document	VZ TPR.9305
AT&T NEBS Guideline	AT&T TP76200

*Also using customer supplied methods directly related to the test technologies and test capabilities listed above.

² When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.



Accredited Laboratory

A2LA has accredited

BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC.

Littleton, MA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. 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).



Presented this 28th day of July 2023.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1627.02
Valid to July 31, 2025

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.