

SCOPE OF ACREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: December 31, 2024 Cert. No0098.03

In recognition of the successful completion of the A2LA evaluation processed itation is granted to this laboratory at the location listed above as well as the one satellite laboratory listed belowon the following products or types of products and sealants; automotive components; coatings; consumer produst electronics and electromechanical assemblies; fasteners; fiberglass; furniture; glass; geotextiles; hoses; insulation; mattresses; medical devices; metal and alloys; packaging; plastics and polymers; pipes; tapes; valves and fitting; pressure vesselse rand elastomers; textiles; and weldments

Test(s): Test Method(s):

Acoustics ASTM C423, E90E413, E795

ISO 354, 101402-

Anchors ACI 355.2, 3554; ASTM E488, E1512;

ETAG001 (Parts 1, 2, 3, 4, 5 and 6 with Annex B and E(exceptC2.4 and C2.5) ICC ES AC01 (Section5.0), AC58 (Sections 4.0 and 5.0), AC106 (Section4.0), AC193 (Sections 7, 8 and 9, and tables 4.1, 4.2 and 4.3), AC2 (Section7.0), AC308 (Sections 3, 4, 7, 8 and 9, and tabl3.1-3.7, 3.8(Except tests 2 and 13), and 3.9) AC320 (Sections 3.0 and 4.0) AC446 (Sections 3.0 and

4.0)

Bedding

Standard Test Methods for Evaluation of Innerspringand Box Springs

ASTM F1566 Sections 6, 7, 8 and 9); NAVSEA

05Z6 PD 504A

Standard Test Methods for Flexibællular ASTM D3574 (Tests A, B, B₂, D, E, F, H, J, K Materials Slab, Bonded, and Molded Urethaneand L)

Foams

Requirements and Test Methods for Full BodyANSI/RESNA SS1: Thermal: (Section 3, 4,8) Support Surfaces

Support Surface Characterization 2,5, 6,7)

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Test(s): Test Method(s):

Chemistry

FTIR (Infrared Spectrometry)

ASTM E1252; SOP CHEM01

XRF CHEM-22

Gravimetric Cleanliness Analysis ASTM F2459

ICP (Including Leadin Paint by ICP) SOP CHEM14, CHEM18; 16 CFR 1303;

CPSGCH-E100309.1

Total Lead in Metal and NeMetal Children's CPSGCH-E1001083, CPSGCH-E1002083

Products

OES-Optical Emission Spectroscopy ASTM E415, E1086; SOP CHE-1000

(Aluminum, Cast Iron, Copper Base, Iron Base

(Carbon and Low Alloy,)Stainless Steel,

Titanium Base

Combustion (LECO) (Carbon and Sulfur) ASTM E1019; SOP CHEM

Environmental Simulation

Humidity MIL-STD-202 (Method 103B)MIL-STD-810

(Method 507)

ASTM G154

Fluorescent UVCondensation, Lightand

WaterExposure (QUV)

Salt Spray (Fog) ASTM B117; MIL-STD-202 (Method 101E),

MIL-STD-810 (Method 509)

Modified Salt Spray ASTM G85, Annex5

Shock, Mechanical IEC 600682-27; MIL-STD-810 (Method 516)

Shock, Thermal MIL -STD-202 (Method 107G)

Temperature/Humidity/Pressure IEC 606011-11

XenonArc Light Exposure, With and Without ASTM D2565, G155

Water

Vibration IEC 600682-64; MIL -STD-810 (Method 514)

Test(s): Test Method(s):

Metals and Metal Products, Fasten(exant'd):

Bend Test (General) ASTM A615/A615M, E290

Coating Weight **ASTM A90/A90M**

Full Sized Eye Bolts: Bend Test, Breaking

Strengthand Proof Load

ASTM F541

Impact, Notched Bar ASTM A370, A489, A673/A673M, E23; AWS

(Room Temperature t&21 °F) D1.5/D1.5M; DTW 766; ISO 148-

Mechanical ad Material Requirements for

Externally Threaded Fastener

SAE J429

Mechanical ad Material Requirements for

Metric Externally Threaded Steel Fasteners

SAE J1199

Fasteners

Proof Load of Full Sized: Externally Threade AASHTO T244; ASTM A370, F606/F606M;

ISO 8984; JIS B1051

AASHTO M31; ASTMA370, A615/A615M, Tension TestAmbient Temperature

> A706/A706M, B557, E8/E8M, F606/F606M; ISO 8984, 3506; JIS B1051; NASM 13122-

Total Extension at Fracture of Externally

Threaded Fasteners

ASTM F606/606M; ISO898-1, 3506

Wedge Tensile of Full Sizethreaded

Fasteners

AASHTO T244; ASTM A370, F606/F606M; ISO 8981; JIS B1051; NASM 1312; SAE J82

Nails and Fasteners

Nails, Fasteners, Spikes and Staples ASTM D4442,F1575, F1667; ICC ES AC116

> ((Test Methods Referenced in Sections 3.0) (Sections 3.23.10)); AC118 (Test Methods Referenced in Section 4;0\, C233; AC257 (Test Methods Referenced in Sections 3.0 and 4.0);

PowerActuated Fasteners ASTM E1190; ICC ES AC70S(ections 3.0 and

4.0)

Mechanical Fasteners in Wood **ASTM D1761**

Package Testing

Standard Practice for Performance Testing c ASTM D4169

Shipping Containers and Systems

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Test(s): Test Method(s):

Physical/Structural

Basic Hardboard/Hardboarddng ANSI A135.4, A135.6, A135.7

Mullen Burst Test ASTM D3786/3786M

External Loading Characteristics of Plastic

Pipe by ParallelPlate Loading

ASTM D2412

Water Absorption of Core Materials for

Sandwich Constructions

ASTM C272/C272M

Wood-Based Fiber Materials and Particle Pal ASTM D1037(Except Abrasion Resistance)

Materials

Thermal

Thermal Transmittnce and Condensation **AAMA 1503**

Resistance

Measuring Compressive Properties of Therm ASTM C165

Insulations

Breaking Load and Flexural Prop. of Block ASTM C203

Type Thermal Insulation

Cellulose Fiber Insulating Board ASTM C209(Except Flame Spread Index)

Dimensions and Density of Preformed Block ASTM C303

Board Type Insulation

Thermal Transmission Properties ASTM C518

Rigid, Cellular Polystyrene Thermal Insulatio ASTM C578 Except Oxygen Index)

Thermal Performance by Hot Box Apparatus ASTM C1363

Compression, Density, Thermal and Humid ASTM D1621, D1622D2126

Aging of Rigid Cellular Plastics

BAIID Testing

AS-3547-1997 (Australia); Breath Alcohol Ignition Interlock Devices

CENELEC (Europe); EN 50436:2014 except

clauses 6.7, 6.8 and 6;9

EN 504362:2014+A1:2015, 60062-78 (IEC 600682-78); CSTTHVC-TR-114/CSTTHVC-TR-150 (Except Test 3.6) (Chanda); CSA Z627 (Except Clause 8.7)EC 60529; 60062-30;

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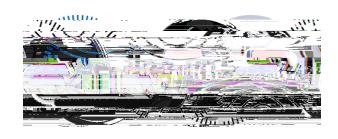
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Test(s):

Test Method(s):

Breath Alcohol Ignition Interlock Devices (cont'd):

ISO 167591, 167592:2010, 2012, 16759 3:2007



Accredited Laboratory

A2LA has accredited

ELEMENT ST. PAUL

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized Internati

onal Standard ISO/IEC 17025: ™b•v "#Bá Ì! u x58 Â8



th day of December 2022.

Mr. Trace Mc Inturff, Vice President , Accreditation Services For the Accreditation Council Certificate Number 0098 .03 Valid to December 31 , 2024