# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

## The Standards Institution of Israel
## Mechanical & Building Systems Laboratory

**42 Chaim Levanon Street**
**Tel Aviv, 69977 Israel**

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.

Jason Stine, Vice President

Expiry Date: 14 May 2028

Certificate Number: AT-1449

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

## The Standards Institution of Israel
## Mechanical & Building Systems Laboratory

42 Chaim Levanon Street
Tel Aviv, 69977 Israel

Mr. Avihoo Levi, B.Sc. (Manager, Mechanical & Building Systems Laboratory)
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## TESTING

ISO/IEC 17025 Accreditation Granted: **23 November 2026**

Certificate Number: **AT-1449** Certificate Expiry Date: **14 May 2028**

**Construction Materials**

| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|---|---|---|---|
| Non-combustibility | SI 755 (ISO 1182):2023 | Homogeneous products and substantial components of non-homogeneous products | Non combustibility apparatus |
| Ignitability | SI 755 (ISO 11925-2): 2023 | Construction products | Flammability test apparatus |
| Gross heat combustion | SI 755 (EN ISO 1716):2023 | Solid products | Gross heat combustion apparatus |
| Ignitability | SI 755 (EN 13823):2023 | Construction products excluding floorings | Flammability test apparatus |
| Ignitability | SI 755 (EN ISO 9239-1):2023 | All types of flooring – Textile carpet, cork, wood, rubber and plastics covering and coating | Flammability test apparatus |



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| Classification | SI 755 (EN 13501-1):2023 | Construction products and building elements | Data from reaction to fire tests |
| Mechanical Tests: B, C<br>Performance Tests: B | SI 1 (EN 197-1) Sections 7.1.1, 7.1.2, 7.2.1, 7.2.2, 7.2.4 | Physical cement tests | Bending and pressing press, acclimation chamber, Blaine, Weight Scales |
| Mechanical Tests: B, C<br>Performance Tests: B | SI 314 (ISO 13006) | Physical properties | Pressing machine, vacuum device, Weight Scales |
| Mechanical Tests: B, C<br>Performance Tests: B | SI 1490 Part 1 | Gypsum partitions and linings: Boards<br>Physical properties | Absorption, strength, nail penetration, marking |
| Mechanical Tests: B, C<br>Performance Tests: B | SI 4004 Part 1 EN 12004 | Adhesives for tiles: Definitions and specifications<br>Physical properties | Absorption tests, compressive and flexural strength, absorption, pull-out strength |
| Mechanical Tests: B, C<br>Performance Tests: B | SI 2378 Part 1 | Natural stone cladded walls: Natural stone for cladding and general cladding system requirements<br>Physical properties | Absorption, flexural strength, flexural strength test and weight in salts |
| Mechanical Tests: B, C<br>Performance Tests: B | SI 5 part 1 | Concrete blocks: Blocks for walls<br>Physical properties | Pressing machine, caliper, Weight Scale |
| Mechanical Tests: B, C<br>Performance Tests: B | SI 1920 Part 1 | Plaster: Requirements and test methods<br>Physical properties | Absorption tests, compressive and flexural strength, absorption, pull-out strength |
| Mechanical Tests: B, C<br>Performance Tests: B | SI 268 EN 771-4 | Autoclaved aerated concrete masonry units: Blocks for walls<br>Physical properties | Pressing machine, caliper, Weight Scale |



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|---|---|---|---|
| Mechanical Tests: B, C<br>Performance Tests: B | SI 896 Part 2 EN 934/2 | Admixtures for concrete, mortar and grout: Concrete admixtures - Definitions, requirements, conformity, marking and labelling<br>Physical properties | Strength, relying on concrete, weight and air |

**Mechanical and Electrical**

| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|---|---|---|---|
| Measurement of thermal conductivity of the material<br>**Performance Tests A** | SI 5450 | Thermal insulation - a method for testing the thermal conductivity of materials | Thermal Conductivity Tester |
| heat loss<br>Heat limiter<br>**Electrical Tests A**<br>**Mechanical Tests A** | SI 69 | Electric water heaters - heaters with thermostatic regulation and thermal insulation | Thermal performance & safety tests |
| Measuring the efficiency of flat solar panels<br>**Mechanical Tests B** | SI 579 Part 1 | Solar water heating systems for flat collectors water | Thermal performance & safety tests |
| heat loss<br>Heat limiter<br>**Electrical Tests A**<br>**Mechanical Tests A** | SI 579 Part 2 | Solar water heating systems Storage Water Tanks | Thermal performance & safety tests |
| Electrical Tests A<br>Mechanical Tests C<br>Performance Tests D | SI 900.2.6,<br>IEC 60335-2-6<br>IEC 60335-1<br>EN 50304 | Electricity oven | Energy Branch |
| Electrical Tests B<br>Mechanical Tests C<br>Performance Tests A | SI 337, UL647<br>IEC 60335-1 | Kerosine fired portable heaters | Energy Branch |
| Mechanical Tests B<br>Performance Tests D | SI 838 | Domestic space heating oil stove installation: Stove | Energy Branch |
| Electrical Tests B<br>Mechanical Tests C | SI 158 | Installations for liquefied petroleum gases (LPG) | Energy Branch |



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|---|---|---|---|
| Electrical Tests A<br>Mechanical Tests C<br>Performance Tests D | SI 5056,<br>EN 203, ANSI Z83.11-2016 • CSA 1.8-2016<br>IEC 60335-1 | Cooking appliances for commercial use – Liquified petroleum gas appliances and combined gas-electrical appliances – Safety requirements | Energy Branch |
| Mechanical Tests B | SI 1607,<br>EN 331, CSA/ANSI Z21.24:22 • CSA 6.10:22<br>ANSI Z21.21-CGA 6.5 | Manually operated valves for liquefied petroleum gas and natural gas<br>Automatic Valves For Gas Appliances | Energy Branch |
| Mechanical Tests C<br>Performance Tests B | SI 1921,<br>EN 16129, ANSI/UL 144 | Pressure regulators for LPG | Energy Branch |
| Mechanical Tests C<br>Performance Tests B | SI 1116,<br>OIML R 137 1&2<br>EN 1359 | Gas meters | Energy Branch |
| Electrical Tests B<br>Mechanical Tests C<br>Performance Tests D<br>Thermal Tests | SI 968,<br>EN 521, EN 14543,<br>ANSI Z83.26\ CSA 2.37<br>EN 484, ANSI Z21.89-2013• CSA 1.18 EN 489, ANSI Z21.58-2015 • CSA 1.6-2015, IEC 60335-1 | Outdoor cooking gas appliances | Energy Branch |
| Electrical Tests A<br>Mechanical Tests C<br>Performance Tests<br>A, C, D | SI 1296<br>EN 89, ANSI Z21.10.1-2014 • CSA 4.1, ANSI Z21.10.3-2015• CSA 4.3, EN 26<br>ANSI Z21.10.3-2015 • CSA 4.3- EN 15502, EN 15502-2-1 | Domestics gas burning water heaters | Energy Branch |
| Electrical Tests A<br>Mechanical Tests C<br>Performance Tests<br>A, C, D | SI 907,<br>EN 30, ANSI Z21.1-2016 • CSA 1.1-2016, IEC 60335-1 | Domestics gas appliances for baking, cooking, and grilling | Energy Branch |



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| Electrical Tests A<br>Mechanical Tests C<br>Performance Tests A, C, D | SI 995,<br>IEC 60335-1, EN 449, EN 509, EN 613, EN 778, EN 1266, EN 1319<br>CSA P.4.1-2024<br>ANSI Z21.88-2019/CSA 2.33-2019<br>ANSI Z21.50-2016/CSA 2.22-2016<br>ANSI Z21.97-2017/CSA 2.41-2017 | Natural gas and LPG – fired domestics heating appliances | Energy Branch |
| Electrical test A<br>Mechanical tests B | SI 994-part 1<br>(IEC 60335-2-40, IEC 60335-1) | Air conditioners: Safety and operational requirements | Electrical current leakage, electrical strength, high voltage, and grounding device |
| Electrical test A<br>Mechanical tests B | SI 6226<br>(IEC 60335-2-40, IEC60335-2-21 IEC 60335-1) | Sanitary hot water heat pumps with electrically driven compressors: Safety requirements | Electrical current leakage, electrical strength, high voltage, and grounding device |
| Performance Tests B | EN 14825 (EN14511-1 , EN14511-2 ,EN14511-3 , EN14511-4) | Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling, commercial and process cooling | Testing and rating at part load conditions and calculation of seasonal performance |
| On Site Witnessing | SI 2206 Part 2 | Fire hose reel - Installation design and maintenance requirements | Flow and pressure gauge |
| Approving the design and construction of NG piping and piping components, and NG consumers | SI 6464, Amend4 | Industrial natural gas consuming appliances - Safety Requirements for appliances application, workplace environment, testing and approval, and natural gas supply pipework | Safety Requirement |



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| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | Lift Directive-Directive 2014/33/EU<br>SI 2481 PART - 0<br>(EN81) | "LIFTS: SAFETY RULES FOR THE CONSTRUCTION AND INSTALLATION - ESSENTIAL REQUIREMENTS"<br>International standard: EN 81<br>Based on: ESR Lifts Directive (2014/33/EC) | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Volt gauge)<br>4. Digital caliper gauge<br>5. Tape Meter.<br>6. Photometer (Light gauge)<br>7. Drako tension wire rope force<br>8. PMT accelerometer gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests<br>**Electrical test B**<br>**Electrical+ Mechanical test A**<br>**Mechanical test D** | SI 2481 Part 41<br>(EN 81-41) | Vertical Lifting Platforms Installed in enclosed Liftway | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Volt gauge)<br>4. Digital caliper gauge<br>5. Tape Meter.<br>6. Photometer (Light gauge)<br>7. Drako tension wire rope force<br>8. PMT accelerometer |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests<br>**Electrical test C**<br>**Mechanical test E** | SI 2252 Part 1<br>(ISO 9386-1) | Vertical Lifting Platforms Installed in non-enclosed Liftway | |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests<br>**Electrical test D**<br>**Mechanical test F**<br>**Electrical +Mechanical Test B** | SI 2252 Part 2<br>(ISO 9386-2) | POWER-OPERATED, LIFTING PLATFORMS FOR PERSONS WITH IMPAIRED MOBILITY- RULES FOR SAFETY, DIMENSIONS AND FUNCTIONAL OPERATION- POWERED STAIRLIFTS FOR SEATED, STANDING AND WHEELCHAIR USERS MOVING IN AN INCLINED PLANE | |



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| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 2481 part 1<br>EN 81-1+A3: December 2009 | Lifts: Safety rules for construction and installation - Electric lifts | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Photometer (Light gauge) |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 2481 part 2<br>EN 81-2:1998+A3: December 2009) | Lifts: Safety rules for construction and installation - Hydraulic lifts | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Photometer (Light gauge) |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | EN81-20 | "Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods - Part 20: Passenger and goods passenger lifts" | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Photometer (Light gauge)<br>6. Drako tension wire rope force<br>7. PMT accelerometer |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | EN 81-50 | Safety rules for the construction and installation of lifts – Part 50: Design rules, calculations, examinations and tests of lift components | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Photometer (Light gauge |



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| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI2481-21<br>EN81-21 | "LIFTS: SAFETY RULES FOR THE CONSTRUCTION AND INSTALLATION - ESSENTIAL REQUIREMENTS" | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Photometer (Light gauge) |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI2481-31<br>EN81-31 | "LIFTS: SAFETY RULES FOR THE CONSTRUCTION AND INSTALLATION OF LIFTS - LIFTS FOR THE TRANSPORT OF GOODS ONLY" | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Photometer (Light gauge) |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | EN81-44 | Safety rules for the construction and installation of lifts - Special lifts for the transport of persons and goods - Part 44: Lifting appliances in wind turbines | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Photometer (Light gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 5697 Part 1 (adoption of EN280:2013+A1:2015) | Mobile Elevating Work Platforms: Elevating Platforms for General Use | 1. Leveling measure<br>2. Laser gauge<br>3. Digital caliper gauge |
| On Site Witnessing - safety requirements, design calculations, stability criteria, construction, tests | SI 1139 Part 2<br>EN1808 | Scaffolds: Suspended Mechanical Scaffolds | 1. Leveling measure<br>2. Load measure gauge<br>3. Laser gauge<br>4. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | -SI 5697 PART 1<br>EN280:2013+A1:2015 | "Mobile elevating work platforms - Design calculations - Stability criteria - Construction - Safety - Examinations and tests" | 1. Leveling measure<br>2. Laser gauge<br>3. Digital caliper gauge |



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| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | ANSI/SAIA A92.2-2015 | "Vehicle-Mounted Elevating and Rotating Aerial Devices" | 1. Leveling measure<br>2. Laser gauge<br>3. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | ANSI/SAIA A92.3-2006 | "Manually Propelled Elevating Aerial Platforms" | 1. Leveling measure<br>2. Laser gauge<br>3. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | ANSI/SAIA A92.5-2006 | "BOOM-SUPPORTED ELEVATING WORK PLATFORMS" | 1. Leveling measure<br>2. Laser gauge<br>3. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | ANSI/SAIA A92.6-2006- | "Self–Propelled Elevating Work Platforms" | 1. Leveling measure<br>2. Laser gauge<br>3. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | EN280-1: 02/2022 | " Mobile elevating work platforms-Part 1: Design calculations - Stability criteria - Construction - Safety - Examinations and tests " | 1. Leveling measure<br>2. Laser gauge<br>3. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | EN280-2: 02/2022 | "Mobile elevating work platforms - Part 2: Additional safety requirements for load lifting appliances on the extending lifting structure and work platform" | 1. Leveling measure<br>2. Laser gauge<br>3. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 5697 Part 2<br>ANSI/SAIA A92.2-2015<br>ANSI/SAIA A92.2-2021 | International standard:<br>ANSI/SAIA A92.2-2021<br>"Vehicle-Mounted Elevating and Rotating Aerial Devices" | 1. Leveling measure<br>2. Laser gauge<br>3. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI5902<br>EN14439 | "CRANES - SAFETY - TOWER CRANES" | 1. Leveling measure<br>2. Laser gauge<br>3. Digital caliper gauge<br>4. Load meter, load cell device |



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| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 1604 PART 1-<br>EN 13814 | "FAIRGROUND AND AMUSEMENT PARK MACHINERY AND STRUCTURES - SAFETY" | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Photometer (Light gauge)<br>6. Acceleration gauge.<br>7. Leveling measure<br>8. Laser gauge<br>9. Torque meter |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI5383<br>EN 1493 | VEHICLE LIFTS | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Leveling measure<br>6. Laser` gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI5515 PART1<br>EN1270 | SPORTS EQUIPMENT: BASKETBALL EQUIPMENT - FUNCTIONAL AND SAFETY REQUIREMENTS AND TEST METHODS | 1. Telescoping tape measure<br>2. Digital caliper gauge<br>3. Leveling measure<br>4. Laser gauge<br>5. Load cell/load meter<br>6. Weights |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI5515 PART2<br>EN1271 | SPORTS EQUIPMENT: PLAYING FIELD EQUIPMENT - VOLLEYBALL EQUIPMENT - FUNCTIONAL AND SAFETY REQUIREMENTS, TEST METHODS | 1. Telescoping Tape meter<br>2. Digital caliper gauge<br>3. Leveling measure<br>4. Laser gauge<br>5. Load cell/load meter<br>6. Weights |



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| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI5515 PART3 EN913; EN12346 | "SPORT EQUIPMENT: GYMNASTIC EQUIPMENT- LADDERS- SAFETY REQUIREMENTS AND TEST METHODS" | 1. Telescoping Tape meter<br>2. Digital caliper gauge<br>3. Leveling measure<br>4. Laser gauge<br>5. Load cell/load meter<br>6. Weights |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI5515 PART 4- EN12655 | "SPORTS EQUIPMENT: GYMNASTIC EQUIPMENT - RINGS - FUNCTIONAL AND SAFETY REQUIREMENTS AND TEST METHODS" | 1. Telescoping Tape meter<br>2. Digital caliper gauge<br>3. Leveling measure<br>4. Laser gauge<br>5. Load cell/load meter<br>6. Weights |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 5515 PART 8- | "SPORTS EQUIPMENT: GOALS FOR FOOTBALL, FUTSAL, MINI-SOCCER AND SMALL-SIDED FOOTBALL – SPECIFICATION" | 1. Telescoping Tape meter<br>2. Digital caliper gauge<br>3. Leveling measure<br>4. Laser gauge<br>5. Load cell/load meter<br>6. Weights |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI5515 PART 9 EN748 | "SPORTS EQUIPMENT: PLAYING FIELD EQUIPMENT - FOOTBALL GOALS -FUNCTIONAL AND SAFETY REQUIREMENTS, TEST METHODS | 1. Telescoping Tape meter<br>2. Digital caliper gauge<br>3. Leveling measure<br>4. Laser gauge<br>5. Load cell/load meter<br>6. Weights |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI5515 PART 10 EN749 | "SPORTS EQUIPMENT: PLAYING FIELD EQUIPMENT - HANDBALL GOALS -FUNCTIONAL AND SAFETY REQUIREMENTS, TEST METHODS" | 1. Telescoping Tape meter<br>2. Digital caliper gauge<br>3. Leveling measure<br>4. Laser gauge<br>5. Load cell/load meter<br>6. Weights |



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| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI5516 PART 2 EN14904 | SPORTS FACILITIES: SURFACES FOR SPORTS AREAS - INDOOR SURFACES FOR MULTI-SPORTS USE – SPECIFICATION" | 1. FLUKE<br>2. Laser gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI5518-PART 11.1 EN15330 | "SURFACES FOR SPORTS AREAS: SYNTHETIC TURF AND NEEDLE-PUNCHED SURFACES PRIMARILY DESIGNED FOR OUTDOOR USE - SPECIFICATION FOR SYNTHETIC TURF SURFACES FOR FOOTBALL, HOCKEY, RUGBY UNION TRAINING, TENNIS AND MULTI-SPORT USE." | 1. FLUKE<br>2. Laser gauge<br>3. Leveling measure |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | MACHINERY DIRECTIVE 2006/42/EC | "MACHINE DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on machinery, Annex 4 categories of:<br>N0.16-Vehicle servicing lifts<br>No. 17- Devices for the lifting of persons or of persons and goods involving a hazard of falling from a vertical height of more than three meters. | 1. Telescoping Tape meter<br>2. Digital caliper gauge<br>3. Leveling measure<br>4. Laser gauge<br>5. Weights<br>6. Load meter, load cell device |



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| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI12100 | "Safety of machinery — General principles for design — Risk assessment and risk reduction" | ------ |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 8180 Standard series. EN818 | "SHORT LINK CHAIN FOR LIFTING PURPOSES – SAFETY" | 1. Tension Machine<br>2. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 2251 PART 1 EN1492 | "TEXTILE SLINGS - SAFETY: FLAT WOVEN WEBBING SLINGS MADE OF MAN-MADE FIBRES FOR GENERAL PURPOSE USE" | 1. Tension Machine<br>2. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI2251 PART 2 EN1492 | "TEXTILE SLINGS - SAFETY: ROUNDSLINGS MADE OF MAN-MADE FIBRES FOR GENERAL PURPOSE USE" | 1. Tension Machine<br>2. Digital caliper gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI1139 PART4 EN1495 | MAST CLIMBING SCAFFOLDS | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Leveling measure<br>6. Laser` gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI12159 EN12159 | "TEMPORARY BUILDING HOISTS FOR PERSONS AND MATERIALS" | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Voltmeter gauge)<br>4. Digital caliper gauge<br>5. Leveling measure<br>6. Laser` gauge |



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|---|---|---|---|
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI13155<br>EN13155 | "CRANES - SAFETY: NON-FIXED LOAD LIFTING ATTACHMENTS" | 1. Digital caliper gauge<br>2. Leveling measure<br>3. Laser gauge<br>4. Tape meter.<br>5. Dynamometer (Force measure) |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 24115 PART 1<br>EN115 | "SAFETY OF ESCALATORS AND MOVING WALKS: CONSTRUCTION AND INSTALLATION" | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Volt gauge)<br>4. Digital caliper gauge<br>5. Tape Meter.<br>6. Photometer (Light gauge)<br>7. Drako tension wire rope force<br>8. PMT accelerometer gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 24115 PART 2<br>EN115 | "SAFETY OF ESCALATORS AND MOVING WALKS: RULES FOR THE IMPROVEMEMNT OF SAFETY OF EXISTING ESCALATORS AND MOVING WALKS" | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Volt gauge)<br>4. Digital caliper gauge<br>5. Tape Meter.<br>6. Photometer (Light gauge)<br>7. Drako tension wire rope force<br>8. PMT accelerometer gauge |



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| Specific Tests and/or Properties Measured | Specification, Standard, Method, or Test Technique | Items, Materials or Product Tested | Key Equipment or Technology |
|---|---|---|---|
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 24115 PART3 EN115-1 | "SAFETY OF ESCALATOR AND MOVING WALKS: CORRELATION BETWEEN EN 115:2008+A1:2010 AND SI 24115 PART 1: MAY 2020" | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Volt gauge)<br>4. Digital caliper gauge<br>5. Tape Meter.<br>6. Photometer (Light gauge)<br>7. Drako tension wire rope force<br>8. PMT accelerometer gauge |
| On Site Witnessing - Design Calculations - Stability Criteria - Construction - Safety - Examination and Tests | SI 24115 PART4 EN115-1 | "SAFETY OF ESCALATORS AND MOVING WALKS: INTERPRETATIONS RELATED TO SI 24115 FAMILY OF STANDARDS" | 1. Tachometer (Rotation Speed gauge)<br>2. Force measure gauge<br>3. Electrical gauge (Volt gauge)<br>4. Digital caliper gauge<br>5. Tape Meter.<br>6. Photometer (Light gauge)<br>7. Drako tension wire rope force<br>9. PMT accelerometer gauge |



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**ANNEX A – List of Safety Tests**

| Types | Specific Tests |
|---|---|
| **Electrical Tests A** | Power input and current<br>Heating<br>Leakage current and electrical strength<br>Overload protection of transformers and associated circuits<br>Grounding continuity / Provision for earthing<br>Performance |
| **Mechanical tests A** | Durability of marking<br>Thickness measurement<br>Mechanical strength<br>Temperature<br>Supply connection and external flexible cords<br>Provision for earthing<br>Terminal for external conductors<br>Clearances, creepage distances and solid insulation<br>Water Capacity |
| **Mechanical tests B** | Durability of marking<br>Thickness measurement<br>Mechanical strength |
| **Mechanical tests C** | Strength test<br>Bending test<br>Lateral deflection<br>Bottom stile end test<br>Vertical load on steps<br>Torsion test<br>Durability test<br>Cyclic test of hinge joint<br>Friction coefficient test |
| **Performance Tests A** | Thermal conductivity |



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**ANNEX A – List of Safety Tests**

| Types | Specific Tests |
|---|---|
| **Performance Tests B** | Testing and rating at part load conditions and calculation of seasonal performance |

| **SI2481-41 (EN81-41) Clause no. 6.3** | |
|---|---|
| **Electrical/mechanical** | **TYPE OF TEST** |
| **Electrical test B** | all control devices function correctly; |
| | all electrical safety devices function correctly; |
| | the lifting platform shall be subjected to electrical tests by instruments to include insulation and earth continuity |
| | verify that the polarity of the mains supply connection is correct; |
| | the alarm device when activated operates correctly; |
| **Electrical +Mechanical test A** | all door locking devices operate correctly; |
| | tests to verify correct tripping speed of the overspeed governor (or on hydraulic systems, the rupture valve) and correct function of the safety gear at rated load and speed shall be carried out; |
| | triggering of overload detection device operates correctly (rated load + 75 kg); |
| | undergo without failure a dynamic test, with the maximum working load at the rated speed; |
| | check safety nut rotates, check distance between main nut and safety nut and check correctly positioned safety nut electric contact device. |
| **Mechanical test D** | stopping distance of the lifting platform is within specified limits; |
| | the suspension elements and their attachments are in order; |
| | the correct clearance dimensions from the surrounding structure are maintained throughout the full travel of the lifting platform; |
| | verify that the mechanism for emergency/manual operation operates correctly; |
| | the mechanical blocking device is provided and effective; |
| | all notices, etc., are correctly displayed; |
| | undergo without permanent deformation a static test with rated load multiplied by a coefficient of 1,25; |



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| SI 2252-1 (ISO 9386-1) | |
|---|---|
| **Electrical/mechanical** | **TYPE OF TEST** |
| **Electrical test C** | all control and operating devices function correctly; |
| | all electrical safety contacts and devices function correctly; |
| | the insulation resistance of motor and control circuits (where necessary with electronic components disconnected) conforms to 11.1.3 a); |
| | the resistance of the electrical protective path between any accessible metal part of the lifting platform and the main earth terminal is in accordance with 11.1.3 b); |
| | the polarity of the mains supply connection is correct; |
| | the alarm device (if fitted) when activated operates correctly (see A.6); |
| | In addition, measure and record: |
| | the electrical supply voltage during the test; |
| | the electrical control voltage during the test; |
| | the motor operating current when carrying rated load in both directions of travel (see Note); |
| | the type of motor overload protection provided; |
| | the motor stall current and tripping time for the motor overload device; |
| | the stopping distance of the lifting platform when carrying rated load in both directions of travel (see Note); |
| | the motor reversal time delay. |
| **Mechanical test E** | all barriers, ramps, locks, hinged platforms and similar devices operate correctly; |
| | the suspension elements and their attachments are adequate and in order; |
| | the suspension rope/chain test certificate is available and in order (the test certificate must state the safeworking load and minimum breaking load); |
| | the correct clearance dimensions from the surrounding structure are maintained throughout the full travel of the lifting platform; |
| | the overspeed governor (and, on hydraulic systems, the rupture valve) and the safety gear function correctly in accordance with clause 6, 7.14.8 and 11.1.4; |
| | the mechanism for emergency/manual operation operates correctly; |
| | the mechanical blocking device is provided and effective; |
| | all notices, etc., are correctly displayed. |

| SI 2252-2 (ISO 9386-2) | |
|---|---|
| **Electrical/mechanical** | **Type of test** |
| **Electrical test D** | all control and operating devices function correctly; |
| | all electrical safety contacts and devices function correctly; |
| | the insulation resistance of motor and control circuits (where necessary with electronic components disconnected) conforms to 10.1.3 a); |



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| | |
|---|---|
| | the resistance of the electrical protective path between any accessible metal part of the stairlift and the main earth terminal is in accordance with 10.1.3 b); |
| | the polarity of the mains supply connection is correct; |
| | the mechanism for emergency/manual operation operates correctly; |
| | the alarm device (if fitted) when activated operates correctly; |
| | the electrical supply voltage during the test; |
| | the electrical control voltage during the test; |
| | the motor operating current when carrying rated load in both directions of travel (see note); |
| | the type of motor overload protection provided; |
| | the motor stall current and tripping time for the motor overload device; |
| | the stopping distance of the stairlift when carrying rated load in both directions of travel (see note); |
| | the motor reversal time delay. |
| **Mechanical test F** | all barriers, ramps, locks, hinged platforms and similar devices operate correctly; |
| | the suspension elements and their attachments are adequate and in order; |
| | the suspension rope/chain test certificate is available and in order; the test certificate shall state the safe working load and minimum breaking load; |
| | the correct clearance dimensions from the surrounding structure are maintained throughout the full travel of the stairlift; |
| | all notices, etc., are correctly displayed |
| **Electrical + Mechanical Test B** | the overspeed governor (and on hydraulic systems, the rupture valve) and the safety gear function correctly in accordance with clause 6 and 7.13.6 and 10.1.4; |

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