



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

### The Standards Institution of Israel Chemistry, Health & Environment Laboratory

42 Chaim Levanon Street

Tel-Aviv, 69977 Israel

(and satellite locations as listed on scope)

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](http://www.anab.org).

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R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 14 May 2022  
Certificate Number: AT-2045



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 Chemistry, Health & Environment Laboratory

#### Corporate Location

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#### TESTING

Valid to: **May 14, 2022**

Certificate Number: **AT-2045**

#### Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Dimensional stability of fabrics after washing/ home laundering	ISO 6330; ISO 3759 ISO 5077; AATCC TM135	Textile	Washing machine - wascator, whirlpool washing machine, whirlpool dryer, ballast scale
Visual appearance	AATCC TM124 ISO 15487 AATCC TM88B AATCC TM88C	Textile	Washing machine - wascator, whirlpool washing machine, whirlpool dryer, ballast scale
Tensile and elongation	ASTM D 5034	Textile	Shimadzu and Zwick tensile machines
Tear strength	ASTM D1424 ISO 13937-1 ISO 6383-2	Textile	Elmendorf - Atlas
Abrasion Resistance	ISO 12947 ASTM D4970	Textile	Martindale - SDL
Colorfastness to laundering	ISO 105-C06 AATCC TM 61	Textile	Linetest, standard fabrics, grey scale

## Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Colorfastness to water	ISO 105-E01 AATCC TM107	Textile	Standard fabrics, grey scale
Colorfastness to perspiration	ISO 105- E04, AATCC TM15	Textile	Standard fabrics, grey scale
Colorfastness to pool water	ISO 105- E03 AATCC TM162	Textile	Standard fabrics, grey scale
Colorfastness to sea water	ISO 105- E02 AATCC TM106	Textile	Standard fabrics, grey scale
Colorfastness to light	ISO 105 AATCC TM 16.3	Textile	Xenotester, standard fabrics, grey scale
Colorfastness to rubbing	ISO 105-X12 AATCC TM8	Textile	Standard fabrics, crockmeter, grey scale
Pilling resistance	ASTM D3512 ISO 12945-1	Textile	Atlas pilling machine
Snagging Resistance	BS EN ISO 12945-3	Textile	ICI orbitor
Stretch (strip method)	ASTM D 5035 ISO 13934-1	Textile	Shimadzu and Zwick tensile machines
Bursting strength	ASTM D3786	Textile	Mullen bursting machine
Seam slippage	ISO 13936-2	Textile	Shimadzu and Zwick tensile machines
Seam strength	FSM 191A 5110	Textile	Shimadzu and Zwick tensile machines
Wrinkle Recovery	AATCC 66	Textile	AATCC scale
Spirality	AATCC 179	Textile	AATCC scale
Weight fabric density	ASTM D3776 ASTM D 3775	Textile	Semi-analytical balance Visual
Yarn count	ASTM D 2260	Textile	Semi-analytical balance, Shirly scale

**Mechanical**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Visual and tactile examination	EN 14350-1, clause 5.2 SI 5817 part 1	Consumer products, toys and juvenile products\ Children articles	Visual
Small parts	EN 14350-1, clause 5.3: Small parts SI 5817 part 1	Consumer products, toys and juvenile products\ Children articles	Small parts cylinder
Volume	EN 14350-1 Clause 5.4: Volume SI 5817 part 1	Consumer products, toys and juvenile products\ Children articles	Visual
Resistance to tearing:	EN 14350-1 Clause 5.5 SI 5817 part 1	Consumer products, toys and juvenile products\ Children articles	Zwick tensile machine
Additional requirements for re-usable products	EN 14350-1 Clause 5.6 SI 5817 part 1	Consumer products, toys and juvenile products\ Children articles	Boiling water
Additional requirements for sealing discs	EN 14350-1 Clause 5.7 SI 5817 part 1	Consumer products, toys and juvenile products\ Children articles	Caliper
Requirements for match components	EN 14350-1 Clause 5.8 SI 5817 part 1	Consumer products, toys and juvenile products\ Children articles	Templates A and B
Requirements for protrusions	EN 14350-1 Clause 5.9 SI 5817 part 1	Consumer products, toys and juvenile products\ Children articles	Zwick tensile machine
Requirements for straws	EN 14350-1 Clause 5.10 SI 5817 part 1	Consumer products, toys and juvenile products\ Children articles	Zwick tensile machine

**Chemical**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Migration of certain elements Soluble Heavy metals, lead content, nickel, chromium 6	EN 71 part 3; SI 562 part 3 ASTM F963-17-17 clause 4.3.5 ASTM F2923 clauses 5,8,9,10 SI 6558 part 1	Children's products, toys, consumer products Children's jewelry	XRF ICP-MS IC-ICP-MS

**Chemical**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Phthalates	With reference to: EN - 14372 clause 6.3.2 SI 562 part 9 Test Method: CPSC-CH-C1001-09.4 and/or GB/T 22048	Children's products, toys, consumer products, Food contact materials (FCM)	GC-MS
BPA	EN 14350-2 clause 5.5 SI 5817 part 2	Food contact materials (FCM), baby bottles, consumer products	HPLC
Volatile compounds	EN 14350-2 clause 4.9 SI 5817 part 2	Consumer products, toys and juvenile products Children articles	Oven, balance, desiccator
Migration of certain elements ( heavy metal) Leachable cadmium and lead from ceramics	EU regulation 1935/2004 EU regulation 10/2011 SI 5113; SI 1003 BS 6748+A1 ISO6486-1 ISO6486-2	Food contact materials (FCM)	ICP-MS MP-AES
Overall migration	e-CFR TITLE 21—Food and Drugs- part 170-190 EU regulation 1935/2004 EU regulation 10/2011 EN 1186; EN 13130; SI 5113	Food contact materials (FCM)	Gravimetric
Lead	NSF/ANSI 372 SI 5452	Water Devices	XRF ICP-MS
Drinking water system components (Odor and Flavor of water Taste, Appearance of water extract, Extraction of metals)	NSF/ANSI 61 BS 6920-2.2.1 AS/NZS 4020 Clauses 6.2, 6.3, 6.7 SI 5452	Water Devices	ICP-MS Turbidimeter, Spectrophotometer Water tasting glasses

**Chemical**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Lead Total lead, cadmium, chromium and mercury content Bromine content	Lead in Non-Metal Children's Products Test Method: CPSC-CH-E1002-08 CPSC-CH-E1002-08.1 CPSC-CH-E1002-08.2 CPSC-CH-E1002-08.3  Lead in Metal Children's Products Test Method: CPSC-CH-E1001-08 CPSC-CH-E1001-08.1 CPSC-CH-E1001-08.2 CPSC-CH-E1001-08.3  Lead in paint Test Method: CPSC-CH-E1003-09.1 RoHS directives (IEC 62331) RoHS 2 2011/65 EU	Consumer products	XRF ICP-MS MP-AES
Gold by fire assay	ISO 11426 SI 299	jewelry	Gravimetric analytical balance
Silver by titration	ISO 13756 SI 573	jewelry	Automatic titrator
Fiber content	ISO 1833 (all parts) AATCC TM20/20A	Textile	Analytical scale Oven Projectina
pH	AATCC 81, FED STD 191A FED STD 2811	Textile	pH-meter
Elements: Zn, Na, Mg, Mn, Fe, K, Ca, Cu, I, Pb, Cd, As, Hg, Al, Se	Based on: BS EN 17294- 1,2 BS EN 15763	Foodstuff	ICP-MS
Total inorganic As	Based on: ISO TC 19620, EN 16802	Foodstuff	IC-ICP-MS after acid extraction
volatile substances + methanol	Based on Official Journal of the EC L333/36 SI 1318, SI 1572, SI 309	Wine and alcoholic Beverages	GC-FID

**Chemical**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
% alcohol by volume Specific weight	OIV -Alcoholic strength by volume MA-E-AS312-01-TALVOL Method C - Densimetry Using Hydrostatic Balance. SI 1318, SI 1572, SI 407, SI 309	Wine and alcoholic Beverages	Hydrostatic scales Super Alcomat Gibertini
Sorbic Acid+ Benzoic Acid Organic acids (malic, lactic, tartaric, citric)	Based on: AOAC official method 994.11 “Benzoic acid in orange juice” Liquid chromatographic method Based on: OIV-MA-AS313-20 SI 1318, SI 1572	Wine and alcoholic Beverages	HPLC DAD
Sugars	Based on: AOAC 31.044-31.037 SI 1318, SI 1572	Wine and alcoholic Beverages	Classical chemistry, Wet chemistry
Sulfur dioxide	OIV MA-E-AS323-04-DIOSO4 AOAC 962.16 SI 1318, SI 1572, SI 407	Foodstuff, Wine and alcoholic Beverages	Classical chemistry, Wet chemistry Super D.E.E Gibertini
Protein content Fat content	Based on: AOAC 976.05; AOAC 922.06, AOAC 945.48, AOAC 933.05	Foodstuff	Classical chemistry, Wet chemistry
Vitamin C	Based on: AOAC 967.21; 985.33	Foodstuff	Classical chemistry, Wet chemistry
Fatty Acid Composition	Based on SI 228	Foodstuff	GC-FID
Milk Fat (butyric acid)	Based on SI 228, SI 36	Foodstuff	GC-FID



## Satellite Location

Toys & Juvenile Products  
Beer Sheva Branch

HaShalom Str. 1 POB 1035  
Beer Sheva, Israel

[Toys@sii.org.il](mailto:Toys@sii.org.il)

### Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Material cleanliness	EN 71 part 1: clause 4.1 SI 562 part 1	Children's toys	Visual
Assembly	EN 71 part 1: clause 4.2 SI 562 part 1	Children's toys	Visual
Flexible plastic sheeting, Toy bags, Packaging	EN71-Part 1: clause 4.3, 4.4, 6 SI 562 part 1	Children's toys	Thickness meter
Glass	EN71-Part 1: clause 4.5 SI 562 part 1	Children's toys	Visual and sharp edges and sharp points testing device
Expanding materials	EN71-Part 1: clause 4.6 SI 562 part 1	Children's toys	Calliper, Torque testing machine, Small parts cylinder, Tension/Compression machine, Dropping surface, Distilled water
Edges	EN71-Part 1: clause 4.7 SI 562 part 1	Children's toys	Sharp edges testing device
Points and metallic wires	EN 71 part 1: clause 4.8 SI 562 part 1	Children's toys	Sharp edges testing device
Protruding parts	EN 71 part 1: clause 4.9 SI 562 part 1	Children's toys	Calliper and radius meter, Sharp edges and sharp points testing device, Tension/Compression machine
Parts moving against each other: Folding and sliding mechanisms	EN 71 part 1: clause 4.10.1 SI 562 part 1	Children's toys	Meter, Weights, Sharp edges and sharp points testing device, Tension/Compression machine
Parts moving against each other: Driving mechanism	EN 71 part 1: clause 4.10.2 SI 562 part 1	Children's toys	Accessibility probe, Sharp edges and sharp points testing device, 5 and 12 mm rods
Parts moving against each other: Hinges	EN 71 part 1: clause 4.10.3 SI 562 part 1	Children's toys	Balance, 5 and 12 mm rods



**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>
Parts moving against each other: Springs	EN 71 part 1: clause 4.10.4 SI 562 part 1	Children's toys	Tension/compression machine, Caliper, Accessibility probe
Mouth-actuated toys and other toys intended to be put in the mouth	EN 71 part 1: clause 4.11 SI 562 part 1	Children's toys	Piston pump, Small parts cylinder, Torque gauge, Tension/Compression machine
Balloons	EN 71 part 1: clause 4.12 SI 562 part 1	Children's toys	Visual
Cords of toys kites and other flying toys	EN 71 part 1: clause 4.13 SI 562 part 1	Children's toys	Electrical resistance meter, Acclimatization chamber
Enclosures: Toys which a child can enter	EN 71 part 1: clause 4.14.1 SI 562 part 1	Children's toys	Meter, Force gauge
Enclosures: Masks and helmets	EN 71 part 1: clause 4.14.2 SI 562 part 1	Children's toys	Caliper, Sharp edges and sharp points testing device, Torque gauge, Tension/Compression machine
Toys intended to bear the mass of a child	EN 71 part 1: clause 4.15 SI 562 part 1	Children's toys	Weight, Slope, Dynamic strength conveyor, Sharp edges and sharp points testing device, 5 and 12 mm rods, Caliper
Heavy immobile toys	EN 71 part 1: clause 4.16 SI 562 part 1	Children's toys	Slope
Projectiles	EN 71 part 1: clause 4.17 SI 562 part 1	Children's toys	Balance, Torque gauge, Tension/Compression machine, Small parts Cylinder, Projectiles gauge
Aquatic toys and inflatable toys	EN 71 part 1: clause 4.18 SI 562 part 1	Children's toys	Torque gauge, Tension/Compression machine, Small parts Cylinder, Caliper
Percussion caps specifically designed for use in toys and toys using percussion caps	EN 71 part 1: clause 4.19 SI 562 part 1	Children's toys	Visual
Acoustics	Based on: EN 71 part 1: clause 4.20 SOP 225.2001; SI 562 part 1	Children's toys	Acoustic meter - screening

**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>
Small balls	EN 71 part 1: clause 4.22 SI 562 part 1	Children's toys	Template E, Torque gauge, Tension/Compression machine
Magnets	EN 71 part 1: clause 4.23 SI 562 part 1	Children's toys	Magnetic flux meter, Torque gauge, Tension/Compression machine, Caliper, A Nickel disc
Yo-Yo	EN 71 part 1: clause 4.24 SI 562 part 1	Children's toys	Yo-Yo test machine
Toys intended for children under 36 months- General requirements	EN 71 part 1: clause 5.1 SI 562 part 1	Children's toys	Torque gauge, Tension/Compression machine, Sharp edges and sharp points testing device, Small parts cylinder, Dropping Surface, Distilled water
Soft-filled toys and soft-filled parts of a toy	EN 71 part 1: clause 5.2 SI 562 part 1	Children's toys	Small parts Cylinder, Tension/Compression machine, Probe A
Plastic sheeting	EN 71 part 1: clause 5.3 SI 562 part 1	Children's toys	Thickness meter
Cords, chains and electrical cables in toys	EN 71 part 1: clause 5.4 SI 562 part 1	Children's toys	Meter, Tension/Compression machine, Force gauge, Caliper
Liquid-filled toys	EN 71 part 1: clause 5.5 SI 562 part 1	Children's toys	Force gauge, Incubator, Refrigerator
Speed limitation of electrically-driven ride-on toys	EN 71 part 1: clause 5.6 SI 562 part 1	Children's toys	Speedometer
Glass and porcelain	EN 71 part 1: clause 5.7 SI 562 part 1	Children's toys	Accessibility Visual
Shape and size of certain toys	EN 71 part 1: clause 5.8 SI 562 part 1	Children's toys	Template A, B
Toys comprising monofilament fibres	EN 71 part 1: clause 5.9 SI 562 part 1	Children's toys	Visual, Meter
Small balls	EN 71 part 1: clause 5.10 SI 562 part 1	Children's toys	Template E, Torque gauge, Tension/Compression machine
Play figures	EN 71 part 1: clause 5.11 SI 562 part 1	Children's toys	Meter, Template B

**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>
Hemispheric-shaped toys	EN 71 part 1: clause 5.12 SI 562 part 1	Children's toys	Meter, Torque gauge, Tension/Compression machine, Dropping surface, Distilled water
Suction cups	EN 71 part 1: clause 5.13 SI 562 part 1	Children's toys	Torque gauge, Tension/Compression machine, Template E
Packaging	EN 71 part 1: clause 6 SI 562 part 1	Children's toys	Thickness meter
Safety of toys: Activity toys for domestic toys.	EN 71 part 8; SI 562 part 8	Children's toys	Specific equipment, Probes, Weights for activity toys test equipment
Warnings, markings and instructions for use (Requirements - General requirements)	EN 71 part 1: clause 7 SI 562 part 1	Children's toys	Visual, Caliper
Flammability – General requirements	EN 71 part 2: clause 4.1 SI 562 part 2	Children's toys	Surface flash tester and viscosity meter
Toys to be worn on the head	EN 71 part 2: clause 4.2 SI 562 part 2	Children's toys	Flammability tester, Acclimatization chamber, Temperature and humidity meter
Toy disguise costumes and toys intended to be worn by a child in play	EN 71 part 2: clause 4.3 SI 562 part 2	Children's toys	Flammability tester, Acclimatization chamber, Temperature and humidity meter, Washing equipment
Toys intended to be entered by a child	EN 71 part 2: clause 4.4 SI 562 part 2	Children's toys	Flammability tester, Acclimatization chamber, Temperature and humidity meter, Washing equipment
Soft-filled toys	EN 71 part 2: clause 4.5 SI 562 part 2	Children's toys	Flammability tester, Acclimatization chamber, Temperature and humidity meter, Washing equipment
Material quality	ASTM F963-17 clause 4.1	Children's toys	Visually
Sound-Producing Toys	Based on: ASTM F963-17 clause 4.5 SOP 225.2001	Children's toys	Acoustic meter - screening

**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>
Small Objects	ASTM F963-17 clause 4.6	Children's toys	Torque gauge, Tension/Compression machine, Small parts cylinder, Dropping Surface, Distilled water, Piston pump
Accessible Edges	ASTM F963-17 clause 4.7	Children's toys	Use and abuse test equipment, Sharp edges and sharp points testing device
Projections	ASTM F963-17 clause 4.8	Children's toys	Use and abuse test equipment, Visual
Accessible Points	ASTM F963-17 clause 4.9	Children's toys	Use and abuse test equipment, Visual, Sharp point tester
Wires or Rods	ASTM F963-17 clause 4.10	Children's toys	Use and abuse test equipment, Flexure tester, Sharp point and sharp edge tester
Nails and Fasteners	ASTM F963-17 clause 4.11	Children's toys	Visual, Sharp point and sharp edge tester
Plastic Film	ASTM F963-17 clause 4.12	Children's toys	Use and abuse test equipment, Visual, Micrometer
Folding Mechanisms & Hinges	ASTM F963-17 clause 4.13	Children's toys	Use and abuse test equipment, Weights, Accessibility rods
Cords, Straps & Elastics	ASTM F963-17 clause 4.14	Children's toys	Use and abuse test equipment, Meter, Tension/Compression machine, Force gauge, Caliper, Push/pull gauge, Head probe, Loop fixture
Stability & Overload Requirements	ASTM F963-17 clause 4.15	Children's toys	Use and abuse test equipment, Visual, Sharp point and sharp edge tester, Steps, Weights, Protractor, Slope
Confined Spaces	ASTM F963-17 clause 4.16	Children's toys	Use and abuse test equipment, Force gauge, Caliper
Wheels, Tires, & Axles	ASTM F963-17 clause 4.17	Children's toys	Use and abuse test equipment, Flexure tester, Sharp point and sharp edge tester, Wheel tension clamp

**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>
Holes, Clearance, & Accessibility of Mechanisms	ASTM F963-17 clause 4.18	Children's toys	Visual, Sharp point tester, Accessibility rods
Simulated Protective Devices	ASTM F963-17 clause 4.19	Children's toys	Use and abuse test equipment, Visual, Sharp point and sharp edge tester, Lens impact tester
Pacifiers	ASTM F963-17 clause 4.20	Children's toys	Pacifier test fixture
Projectile Toys	ASTM F963-17 clause 4.21	Children's toys	Balance, Torque gauge, Tension/Compression machine, Small parts Cylinder, Projectiles gauge
Teethers & Teething Toys	ASTM F963-17 clause 4.22	Children's toys	Use and abuse test equipment, Visual, Rattle test fixture, Supplemental test fixture
Rattles	ASTM F963-17 clause 4.23	Children's toys	Use and abuse test equipment, Visual, Rattle test fixture, Supplemental test fixture
Squeeze Toys	ASTM F963-17 clause 4.24	Children's toys	Use and abuse test equipment, Visual, Rattle test fixture, Supplemental test fixture
Toys Intended to Be Attached to a Crib or Playpen	ASTM F963-17 clause 4.26	Children's toys	Use and abuse test equipment, Visual
Stuffed & Bean Bag-Type Toys	ASTM F963-17 clause 4.27	Children's toys	Tension/Compression machine, Small parts cylinder
Stroller and Carriage Toys	ASTM F963-17 clause 4.28	Children's toys	Visual
Art Materials	ASTM F963-17 clause 4.29	Children's toys	Visual
Toy Gun Marking	ASTM F963-17 clause 4.30	Children's toys	Visual
Balloons	ASTM F963-17 clause 4.31	Children's toys	Visual
Certain toys with Nearly Spherical Ends	ASTM F963-17 clause 4.32	Children's toys	Supplemental test fixture
Marbles	ASTM F963-17 clause 4.33	Children's toys	Visual

**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>
Balls	ASTM F963-17 clause 4.34	Children's toys	Small ball template
Pom Poms	ASTM F963-17 clause 4.35	Children's toys	Small ball template
Hemispherical-Shaped Objects	ASTM F963-17 clause 4.36	Children's toys	Caliper
Yo-Yo Elastic Tether Toys	ASTM F963-17 clause 4.37	Children's toys	Yo-Yo test machine
Magnets	ASTM F963-17 clause 4.38	Children's toys	Magnetic flux meter, Torque gauge, Tension/Compression machine, Caliper
Jaw Entrapment in Handles and Steering Wheels	ASTM F963-17 clause 4.39	Children's toys	Jaw entrapment fixture
Flammability	ASTM F963-17 clause 4.2	Children's toys	Flammability tester, Acclimatization chamber, Temperature and humidity meter, Washing equipment

### Satellite Location

Plastic & Irrigation Section  
Ruppin Branch

Ruppin, Israel

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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
Hydrostatic tests	ISO 1167 EN 921 ISO 4427-5: Clause 4.5 ISO 4427-2: Clause 7 Table 3 Clause 7.3 Table 4 ISO 15875 -2 (SI 5433-2): Clause 7 Table 7 ISO 8779: Clause 6 Table 5 ISO 15874-2-(SI 5111): Clause 7 Table 9 EN 1555-5 (SI71555): Clause 4.4, 4.5 Table 5 EN 1555 -2- (SI 71555): Clause 7 Table 4 ISO 15876-5-(SI 5434): Clause 7 Table 7 ISO 21003-2: Clause 9 Table A EN 1452-5(SI 71452): Clause 4 Table 2 EN 1452-2 (SI 71452) Clause 8.2 Table 7, Table 8	Plastic Pipes	Pressure Test Device: Water Bath, Pressure Generator

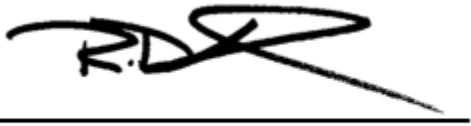


**Mechanical**

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Pull Out Strength Test	ISO 14236 (SI 5283)	Plastic Pipes	Tensile Testing Machine
Cohesive resistance Test for electrofusion socket fittings  Cohesive resistance Test for electrofusion saddle fittings	EN 1555-5 (SI 71555) Clause 4.4 Table 5  ISO 4427-5 Clause 4.5 Table 3  ISO 13954 ISO 13955 ISO 13956	Plastic Pipes	Tensile Testing Machine
Tensile Strength - Butt Fusion Joint	ISO 13953	Plastic Pipes	Tensile Testing Machine
Tensile Strength - Peel Test	ISO 21003-2 Clause 11	Plastic Pipes	Tensile Testing Machine
Tensile Strength - Elongation at brake	ISO 6259-1 ISO 6259-3	Plastic Pipes	Tensile Testing Machine
Functional Test, Operational Test, Uniformity of Flow Rate, Flow Rate as a Function of Inlet Pressure, Determination of Emitter/Emit Unit Exponent	ISO 9261 (SI 1642) Clauses 9.1, 9.2, 9.3	Emitters & Emitting Pipe	Flow Rate Device (Collectors), Scales, Manometer, Timer

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2045.



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R. Douglas Leonard Jr., VP, PILR SBU