

Accreditation Certificate

Anecto Ltd.

Ballybrit Business Park, Galway

Mervue Business Park, Galway

Testing Laboratory

Registration number: 175T

is accredited by the Irish National Accreditation Board (INAB) to undertake testing as detailed in the Schedule bearing the Registration Number detailed above, in compliance with the International Standard ISO/IEC 17025:2005 2nd Edition "General Requirements for the Competence of Testing and Calibration Laboratories" *(This Certificate must be read in conjunction with the Annexed Schedule of Accreditation)*

Date of award of accreditation: 12:12:2006

Date of last renewal of accreditation: 26:09:2011

Expiry date of this certificate of accreditation: 26:09:2016

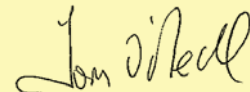
This Accreditation shall remain in force until further notice subject to continuing compliance with INAB accreditation criteria, ISO/IEC 17025 and any further requirements specified by the Irish National Accreditation Board.

Manager:



Dr Adrienne Duff

Chairperson:



Mr Tom O'Neill

Issued on 26 September 2011

Organisations are subject to annual surveillance and are re-assessed every five years. The renewal date on this Certificate confirms the latest date of renewal of accreditation. To confirm the validity of this Certificate, please contact the Irish National Accreditation Board.

The INAB is a signatory of the European co-operation for Accreditation (EA) Testing Multilateral Agreement (MLA) and the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement.

Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:
Category A

ANECTO LTD

Mechanical/Environmental Testing Laboratory

<i>Initial Registration Date :</i>	12-December-2006	08-July-2011
<i>Postal Address:</i>	Mervue Business Park	Ballybrit Business Park
<i>(Address of other locations as they apply)</i>	Galway	Ballybrit Galway
<i>Telephone:</i>	+353 (91) 757404	
<i>Fax:</i>	+353 (91) 757387	
<i>E-mail:</i>		
<i>Contact Name:</i>	Frank Enright	
<i>Facilities:</i>	Public testing service	

Schedule of Accreditation



Permanent Laboratory:
 Category A

THE IRISH NATIONAL ACCREDITATION BOARD (INAB) is the Irish body for the accreditation of organisations including laboratories.

Laboratory accreditation is available to testing and calibration facilities operated by manufacturing organisations, government departments, educational institutions and commercial testing/calibration services. Indeed, any organisation involved in testing, measurement or calibration in any area of technology can seek accreditation for the work it is undertaking.

Each accredited laboratory has been assessed by skilled specialist assessors and found to meet criteria which are in compliance with ISO/IEC 17025 or ISO/IEC 15189 (medical laboratories). Frequent audits, together with periodic inter-laboratory test programmes, ensure that these standards of operation are maintained.

Testing and Calibration Categories:

- Category A:** Permanent laboratory calibration and testing where the laboratory is erected on a fixed location for a period expected to be greater than three years.
- Category B:** Site calibration and testing that is performed by staff sent out on site by a permanent laboratory that is accredited by the Irish National Accreditation Board.
- Category C:** Site calibration and testing that is performed in a site/mobile laboratory or by staff sent out by such a laboratory, the operation of which is the responsibility of a permanent laboratory accredited by the Irish National Accreditation Board.
- Category D:** Site calibration and testing that is performed on site by individuals and organisations that do not have a permanent calibration/testing laboratory. Testing may be performed using
- (a) portable test equipment
 - (b) a site laboratory
 - (c) a mobile laboratory or
 - (d) equipment from a mobile or site laboratory

Standard Specification or Test Procedure Used:

The standard specification or test procedure that is accredited is the issue that is current on the date of the most recent visit, unless otherwise stated.

Glossary of Terms

Facilities:

- Public calibration/testing service:** Commercial operations which actively seek work from others.
- Conditionally available for public calibration/testing:** Established for another primary purpose but, more commonly than not, is available for outside work.
- Normally not available for public calibration/testing:** Unavailable for public calibration/testing more often than not.

Laboratory users wishing to obtain assurance that calibration or test results are reliable and carried out to the Irish National Accreditation Board criteria should insist on receiving an accredited calibration certificate or test report. Users should contact the laboratory directly to ensure that this scope of accreditation is current. INAB will, on request, verify the status and scope.

Scope of Accreditation



**Anecto Ltd Ballybrit Business Park
Galway
Mechanical/Environmental Testing Laboratory**

Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
<p>Medical Device Tests</p> <p>Packaging</p> <p>Ageing</p>	<p>Integrity Testing</p> <p>Bubble leak</p> <p>Dye penetration</p> <p>Heat Seal Peel testing</p> <p>Standard Test Method for Seal Strength of Flexible Barrier Materials</p> <p>Accelerated and real time Ageing Standard guide or Accelerated Ageing of Sterile Barrier Systems for Medical Devices</p>	<p>ASTM F2096-04</p> <p>ASTM F1929-98(2004)</p> <p>EN868-1 (Annex F)</p> <p>ASTM F88-06 ASTM F88-09</p> <p>ASTM F1980-02 ASTM F1980-07</p>
<p>Packaging</p>	<p>Incline Impact</p> <p>Edge Crush Test</p>	<p>TAPPI T 811-2007 ISO 3037:2007</p>
	<p>Edge Crush Clamp</p>	<p>TAPPI T 839-2008</p>

Scope of Accreditation



Anecto Ltd Ballybrit Business Park

Galway

Mechanical/Environmental Testing Laboratory

Permanent Laboratory:

Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
Packaging	Incline Impact Corrugated Fibreboard- Determination of the grammage of the component Papers after seperation	ISO 3039-2010
	Paper and Board- Determination of water absorptiveness-Cobb Method	ISO 535:1991
	Paper and Board- Determination of grammage	IS EN 150536:1997

Scope of Accreditation



Anecto Ltd Mervue Business Park Galway Mechanical/Environmental Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
General Non-explosive stores and equipment including: Aerospace Structures, Materials & Equipment Computers & Peripherals Domestic Appliances Electrical/Electronic Components, Connectors & Products Electro-Mechanical Devices Large Shipping Cases 1 Loaded Containers Marine Equipment Frequency Mining Equipment Components Motor Vehicles Accessories & Components Office Equipment Packages & Packaging Material Radar Equipment Radio & Television Equipment Safety Appliances & Equipment Satellites & Sub-Assemblies Security Devices & Alarms Frequency Shipping Containers & Systems Telecommunications Equipment Traffic Signals & Signs, Static & Portable Transport Packages Unit Loads Unitised Loads	ENVIRONMENTAL TESTS (non-explosive items)	IEC 68-2-1:1994-05 IEC 68-2-2:1994-05 IEC 68-2-14:1986-04
	CLIMATIC	
	Temperature Steady State & Cyclic	
	Temperature range -60°C to +100°C Max Chamber Size 2.4m x 15m x 1.5m	
	Temperature range -40°C to +100°C Max Chamber Size .96m x .96m x .96m	
	Temperature & Humidity Steady State & Cyclic	
		IEC 68-2-3:1969
	Temperature range -40°C to +100°C	IEC 68-2-56:1988
	Humidity range 40 - 98% Max Chamber Size .96m x .96m x .96m	IEC 60068-2-78:2001 IEC 68-2-30:1985-08
	Temperature range -60°C to +100°C	ASTM D4332-06 IEC 68-2-38:1999
	Humidity range: 40 - 95% Max Chamber Size 2.4m x 15m x 1.5m	
	Environmental Testing Temperature/humidity cyclic test	IS EN 60068-2-38-2009(IEC)

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Anecto Ltd Mervue Business Park Galway Mechanical/Environmental Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
General Non-explosive stores and equipment including:	Thermal Shock	
Aerospace Structures, Materials & Equipment	Automated Transfer	IEC 68-2-14:1986-04
Computers & Peripherals	Max Temperature +150°C	
Domestic Appliances	Min Temperature - 75°C	
Electrical/Electronic Components, Connectors & Products	Max Chamber Size: .45m x .63m x .4m	
Electro-Mechanical Devices	Environmental testing - Change of temperature	IS EN 60068-2-14 - 2009(IEC)
Large Shipping Cases 1		
Loaded Containers		
Marine Equipment Frequency	Salt Spray	
Mining Equipment	Capacity: 1000 litre	IEC 68-2-11:1999
Components		ASTM B117-03
Motor Vehicles Accessories & Components		ASTM B117-07
Office Equipment		ASTM B117-07a
Packages & Packaging Material		ASTM B117-09
Radar Equipment		
Radio & Television Equipment		
Safety Appliances & Equipment	Ingress Protection	IEC 60529:2001-02
Satellites & Sub-Assemblies	Standard Practice for Operating Salt Spray (Fog) Apparatus	
Security Devices & Alarms Frequency		
Shipping Containers & Systems		
Telecommunications Equipment	IPX1	
Traffic Signals & Signs, Static & Portable	Platform Size: 60cm diameter	
Transport Packages		
Unit Loads	IPX5	
Unitised Loads	Nozzle Size: 6.3mm	

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
General Non-explosive stores and equipment including: Aerospace Structures, Materials & Equipment Computers & Peripherals Domestic Appliances Electrical/Electronic Components, Connectors & Products Electro-Mechanical Devices Large Shipping Cases 1 Loaded Containers Marine Equipment Frequency Mining Equipment Components Motor Vehicles Accessories & Components Office Equipment Packages & Packaging Material Radar Equipment Radio & Television Equipment Safety Appliances & Equipment Satellites & Sub-Assemblies Security Devices & Alarms Frequency Shipping Containers & Systems Telecommunications Equipment Traffic Signals & Signs, Static & Portable Transport Packages Unit Loads Unitised Loads	Incline Impact Max Load: 200Kg Max Impact Velocity: 3.0m/s Standard Test for Impact Testing for Shipping Containers and Systems Max Load: 200Kg Max Impact Velocity: 3.0m/s Sequential Tests (Conditioning, Compression, Vibration, Shock, TS 4, TS 1) Based on above equipment	ASTM D880-92 (2002) ASTM D880-92 (2008) ASTM D4169-05 ASTM D4169-08 ASTM D4169-09 ASTM D6653-01(06) ISTA Series 1A, B, C, D, E, G, H ISTA Series 2A, B, C, D, E ISTA Series 3A, E, F ISTA Series 7B, D

Scope of Accreditation



Anecto Ltd Mervue Business Park Galway Mechanical/Environmental Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
Packaging for the transport of dangerous goods Drums: Metals Wood Fibreboard Plastics Jerricans: Metal Plastics Boxes: Metal Wood Fibreboard Plastics	Environmental tests Performance tests Drop tests Max Height 1.8m Preconditioning at -18°C (plastics) Stack tests Max Weight 1000Kg (ambient temperature & 40°C as required) Leakproofness tests Max Pressure 30KPa	UN Chapter 6.1 Packagings (Ed 10) ISO 16104:2003

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Anecto Ltd Mervue Business Park Galway
Mechanical/Environmental Testing Laboratory

Permanent Laboratory:
 Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
Packaging for the transport of dangerous goods Bags: Plastics Textiles Paper Composite packaging Plastics receptacle Glass, porcelain or stone receptacle	Environmental tests Internal pressure (hydraulic) tests Max Pressure 1MPa Conditioning at 23 °C/50% RH (Fibreboard) as required Preconditioning at -18 °C (plastics)	UN Chapter 6.1 Packagings (Ed10) ISO 16104:2003

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INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
Packaged Product	Complete, filled transport packages - General rules for the compilation of performance test schedules	ISO 4180-1:1980 Part 1: General principles ISO 4180-2:1980 Part 2: Quantitative Data
Packaged Product	Standard Test Method for Determination of Leaks in Flexible Packaging by Bubble Emission	ASTM D3078-02 ASTM D3078-02(2008)
Packaged Product	Standard Test Method for Leakage Testing of Empty Rigid Containers by vacuum Method	ASTM D4991-07
Packaged Product	Standard Test Method for Thermal Insulation Performance of distribution Packages	ASTM D3130-07 ASTM 3103-07e1
Packaged Product	Standard Practice for Performance Testing of Packages for single parcel delivery systems.	ASTM D7386-08 Standard (TS4) Packs Small (TS1) Packs