

# Accreditation Certificate

## CTL Tástáil Teo

Údarás Industrial Estate, An Choill Rua, Indreabhán, Co. Galway

**Testing Laboratory**

**Registration number: 092T**

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 2<sup>nd</sup> Edition** “*General Requirements for the Competence of Testing and Calibration Laboratories*”  
***(This Certificate must be read in conjunction with the Annexed Schedule of Accreditation)***

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Date of award of accreditation: **13:09:2002**

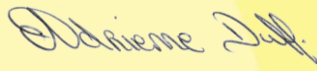
Date of last renewal of accreditation: **08:08:2017**

Expiry date of this certificate of accreditation: **08:08:2022**

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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:



Ms Ita Kinahan

Issued on 08<sup>th</sup> August 2017

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

## CTL TÁSTÁIL TEO

### Mechanical Testing Laboratory

**Initial Registration Date :** 29-June-1998  
**Postal Address:** Údarás Industrial Estate  
(Address of other locations An Choill Rua  
as they apply) Indreabhán  
Co. Galway

**Telephone:** +353 (91) 505430  
**E-mail:** Jm.bocquel@eirecomposites.com  
**Contact Name:** Mr. Jean-Marie Bocquel  
**Facilities:** 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



## CTL Tástáil Teo

### Mechanical 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
<b>1129</b> <b>Plastics and related products</b>		
.11    Tension tests <i>Carbon fibre reinforced</i>	Tensile strength and modulus	EN 2561: 1995
.19 <i>plastics</i> <i>Carbon fibre reinforced plastics - Unidirectional laminates</i>	Tensile strength perpendicular to the fibre direction	EN 2597: 1998
<i>Plastics</i> <i>Fibre reinforced plastics</i>	Determination of notched and unnotched tensile strength	EN 6035: 2015
Shear tests <i>Fibre reinforced plastics</i>	Standard test method for shear properties of composite materials for the V-notched beam method (excluding modulus determination)	ASTM D5379-12
<i>Fibre reinforced plastics composites</i>  <i>Carbon fibre reinforced plastics</i>	Interlaminar shear strength	EN 2563: 1997
	Determination of in-plane shear properties ( $\pm 45^\circ$ tensile test)	EN 6031: 2015

**Note: Temperature range for all tests: -55 °C to +180 °C**

# Scope of Accreditation



## CTL Tástáil Teo

### Mechanical 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
1129 <b>Plastics and related products</b>		
.20 <b>Compression tests</b> <i>Carbon fibre reinforced plastics</i> <i>Fibre reinforced plastics</i>	Compression strength and modulus	PrEN 2850:1997
	Determination of notched, unnotched and filled hole compressive strength	EN 6036: 2015
	Determination of compressive strength after impact	EN 6038: 2015
.49 <b>Other tests</b> <i>Fibre reinforced plastics</i>	Determination of glass transition temperatures	EN 6032: 2015
	Climbing Drum Peel: -70°C to +250°C	ASTM D1781-98 (2012) Standard Test method for Climbing Drum Peel for Adhesives
	Determination of bearing strength	EN 6037: 2015
	Determination of interlaminar fracture toughness energy ; mode I G <sub>ic</sub>	EN 6033: 2015

**Note: Temperature range for all tests: -55°C to +180°C**

# Scope of Accreditation



## CTL Tástáil Teo

### Mechanical 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
1129    Plastics and related products		
.49    Other tests <i>Fibre reinforced plastics</i>	Determination of interlaminar fracture toughness energy; mode II $G_{Ic}$	EN 6034: 2015
	Flexural properties of sandwich constructions	ASTM C393-16
	Density	ISO 1183-1 Method A (2004)
	Fibre volume fraction (FVF)	BS EN2564 (1998)
.99    Other products <i>Fibre reinforced plastics</i>	Flexural strength	EN 2562:1997
	Test method for the determination of the effect of exposure to humid atmosphere on physical and mechanical characteristics	prEN 2823:1998

**Note: Temperature range for all tests: -55 °C to +180 °C**