

Accreditation Certificate

Mattest (Ireland) Ltd

Unit 2, Northwest Business Park, Ballycoolin, Dublin 15

Testing Laboratory

Registration number: 286T


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: **31:05:2011**

Date of last renewal of accreditation: **30:03:2016**

Expiry date of this certificate of accreditation: **30:03:2021**

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 30 March 2016

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,B

MATTEST (IRELAND) LTD

Construction Material Testing Laboratory

Initial Registration Date : 31-May-2011
Postal Address: Mattest (Ireland) Ltd
(Address of other locations as they apply) Unit 2, Northwest Business Park,
Ballycoolin,
Dublin 15

Telephone: +353 (1) 8278600
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E-mail: info@mattest.ie
Contact Name: Mr Barry Gilroy Technical & Area Manager
Facilities: Public testing service

Schedule of Accreditation



Permanent Laboratory:
Category A,B

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 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



Mattest (Ireland) Ltd

Permanent Laboratory:
Category A

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
211 Cementitious Materials		
.11 Portland Cement	Flexural and Compressive Strength of Cement (loads 2-100 kN) <ul style="list-style-type: none"> - Including making - Including curing 	BS EN 196-1:2016
	Consistence and Setting Time	BS EN 196-3:2005 + A1 2008
.99 <i>Other Materials</i>	Moisture Content	BS EN 15167-1:2006
	Initial Setting Time	BS EN 15167-1:2006
	Activity Index	BS EN 15167-1:2006

Scope of Accreditation



Mattest (Ireland) Ltd

Permanent Laboratory:

Category A

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
212 Concrete		
.12	Compressive strength of cubes (loads 30 - 3000 kN)	BS EN 12390-3:2009
.23	- Including curing of Cubes	BS EN 12390-2:2009
.27	- Density of Cubes	BS EN 12390-7:2009
.24 Concrete hardened Concrete	Cored Specimens:- - Examination - Preparation - Testing for compressive strength	BS EN 12504-1:2009
.21	Making Concrete Cubes	BS EN 12390-2:2009

Scope of Accreditation



Mattest (Ireland) Ltd

Permanent Laboratory:
Category A

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
216 Aggregates		
.03	Reducing laboratory samples	BS EN 932-2:1999
.34	Particle Density & Water Absorption (31.5 - 4mm)	BS EN 1097-2:2013
.12	Particle size distribution: - Sieving method	BS EN 933-1:2012
.13	Flakiness Index	BS EN 933-3:2012
.17	Resistance to fragmentation - Los Angeles method	BS EN 1097-2:2010 Clause 5, excluding Annex A
.22	- LA _{RB}	BS EN 13450:2002 Modified for Railway Ballast - Annex C.
	Magnesium Sulphate Soundness	BS EN 1367-2:2009
.23	Methylene Blue	BS EN 933-9:2009 + A1:2013
.26		

Scope of Accreditation



Mattest (Ireland) Ltd

Permanent Laboratory:
Category A

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
<p>216 Aggregates</p> <p>.34</p> <p>.99</p>	<p>Water Content</p> <p>Density & Water Content - Vibrating Hammer</p> <p>Determination of 10% Fines Value (TFV). Load range 30 - 3000 kN -Aggregates in the dry condition -Aggregates in the soaked condition</p>	<p>BS EN 1097-5:2008</p> <p>BS EN 13286-4:2003</p> <p>BS 812-111:1990</p>

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Mattest (Ireland) Ltd

Permanent Laboratory:

Category A

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
217 Bituminous Mixtures .11 for roads and other paved areas	Soluble Binder content	BS EN 12697-1:2012
	- Percentage Refusal Density (PRD)	BS 598-104:1989
	Determination of the Maximum Density	EN 12697-5:2009 (incorporating corrigendum 2012)
		Procedure A (Volumetric)
	Binder content by ignition	BS EN 12697-39:2012
	Particle size distribution	BS EN 12697-2:2015
	Determination of Bulk Density	BS EN 12697-6:2012 Method A - Dry Method B - S.S.D Method C - Sealed specimen Method D - Dimensions
Determination of Void Characteristics	BS EN 12697-8:2003	

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Mattest (Ireland) Ltd

Permanent Laboratory:

Category A

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
217 Bituminous Mixtures .11 for roads and other paved areas	Laboratory compaction of Bituminous Materials	BS EN 12697-32:2003 Vibratory Compactor

Scope of Accreditation



Mattest (Ireland) Ltd

Permanent Laboratory:

Category A

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
218 Soils		
.11	Moisture content - oven drying method	BS 1377-2:1990
.31	Particle size distribution - wet sieving - dry sieving	BS 1377-2:1990
.11	Moisture condition Value (MCV) - natural moisture content	BS 1377-4:1990
.31	Liquid limit - cone petrometer one point method - definitive method	BS 1377-2:1990
.31	Plastic Limit	BS 1377-2:1990
.31	Plasticity Index	BS 1377-2:1990
.11	Dry density/moisture Content relationship using the - 2.5 kg Rammer - 4.5 kg rammer - vibrating hammer	BS 1377-4:1990
.41	Undrained shear Strength triaxial - triaxial compression without measurement of pore pressure (0.25kN to 50kN)	BS 1377-7:1990

Scope of Accreditation



Mattest (Ireland) Ltd

Permanent Laboratory:

Category A

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
<p>218 Soils .31</p>	<p>Determination of Laboratory (CBR) California Bearing Ratio</p>	<p>BS 1377:4:1990 Sample preparation Compactive effort:- -Rammer Compaction to a specified density (Method 3) -By Vibrating Compaction with specified effort (Method 6)</p>
<p>218 Soils .41</p>	<p>Determination of shear strength by direct shear (large shear box apparatus)</p>	<p>BS EN 1377-7:1990</p>

Scope of Accreditation



Mattest (Ireland) Ltd

Permanent Laboratory:

Category B

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
212 Concrete		
.01	Sampling - composite sample - spot sample	BS EN 12350-1:2009
.12	Slump	BS EN 12350-2:2009
.21	Making concrete cubes	BS EN 12390-2:2009
.13	Air content of fresh concrete - Pressure gauge method	BS EN 12350-7:2009

Scope of Accreditation



Mattest (Ireland) Ltd

Permanent Laboratory:
Category B

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
218 Aggregates .01	Sampling - from stockpiles	BS EN 932-1:1997
224 Road Pavements .01 - Surfaces	Surface macro texture using a volumetric patch	BS EN 13036-1:2010
254 Soils for Civil Engineering Purposes .10	In situ bulk density - nuclear method - compliance testing	BS 1377-9:1990
218 Soils .31 Strength and consolidation tests	In situ determination of the vertical deformation and strength characteristics of a soil by a plate loading test. Range of measurement:- 4 to 200kN Calculation of - Equivalent CBR - Elastic modulus MN/m ² /m - Modulus of subgrade reaction kN/m ² /m - Stiffness modulus MN/m ² from plate loading test	BS 1377-9:1990 In-house method MIL/TP 042, based on (NRA) National Roads Authority Highway Documents:- HD 25-26/2010, HD 25/1994 and Series 600 NRA Specification for roadworks.

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Mattest (Ireland) Ltd

Permanent Laboratory:

Category B

Construction Material Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
<p>218 Soils</p> <p>.99 Other tests</p>	<p>Insitu determination of the strength of soils and unbound flexible pavements using the Dynamic Cone Penetrometer method to depths up to 1.5m and calculation of equivalent CBR</p>	<p>Documented in house method TP 43 based on Transport Research Laboratory (TRL) PR/INT/277/04 and National Roads Authority (NRA) Highway Documents:- HD 25-26/2010.</p>