

# Accreditation Certificate

## Mattest (Ireland) Ltd

Unit 18 University Hall, Sarsfield Road, Wilton, Cork

### Testing Laboratory

Registration number: 289T

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: 31:05:2011

Date of last renewal of accreditation: 31:05:2011

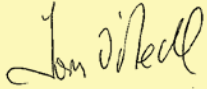
Expiry date of this certificate of accreditation: 31:05:2016

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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: 

Mr Tom O'Neill

Issued on 31 May 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

## MATTEST (IRELAND) LTD

### Construction Material Testing / Chemical Testing Laboratory

**Initial Registration Date :** 31-May-2011  
**Postal Address:** Mattest (Ireland) Ltd  
*(Address of other locations as they apply)* Unit 18 University Hall  
Sarsfield Road  
Wilton, Cork

**Telephone:** +353 (21) 4342061  
**Fax:** +353 (21) 4342083  
**E-mail:** [regan@mattest.ie](mailto:regan@mattest.ie)  
**Contact Name:** Mr Rory Egan  
**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



**Mattest (Ireland) Ltd**

Permanent Laboratory:  
Category A

**Construction Material Testing/ Chemical Testing Laboratory**

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
212 Concrete		
.23 Making of moulded specimens	Making and Curing Test Cubes	EN 12390-2:2009
.23 Compression tests on moulded specimens	Determination of compressive strength of test specimens including curing (Cubes) load from 30-2000 kN	BS 1881:Part 116:1983 BS 1881:Part 111:1983 EN 12390: Part 3:2002
.24 Compression tests on hardened concrete cores	Determination of compressive strength of test specimens (Cores) load from 30-2000 kN	EN 12504: Part 1:2000 EN 12390: Part 3: 2002 EN 12390: Part 7: 2000
.27 Mass per unit volume of hardened concrete	Determination of density of hardened concrete	BS 1881: Part 114: 1983 EN 12390: Part 7: 2000

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**Mattest (Ireland) Ltd**

Permanent Laboratory:  
Category A

**Construction Material Testing / Chemical Testing Laboratory**

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
216 .13 <b>Aggregates</b> Sieve analysis	Determination of particle size distribution - Washing and sieving - Dry sieving	EN 933: Part 1: 1997
.17     Flakiness Index	Determination of particles shape	EN 933: Part 3: 1997
.20     Aggregate crushing value	Determination of aggregate crushing value (ACV)	BS 812: Part 110: 1990
.34     Moisture content	Determination of moisture/water content	BS 812: Part 109: 1990 EN 1097: part 5: 2008
.99     Other tests - Unbound and hydraulically bound mixtures	Test methods for laboratory reference density and water content - Vibrating hammer	EN 13286: Part 4: 2003
.99     Other tests - Chemical tests	Determination of water soluble chloride salts using the Volhard method (reference method) Range; 0.01-4.00%	EN 1744: Part 1: 1998
.99     Other tests - Chemical tests	Determination of water soluble sulphates 0.01-2.00%; acid soluble sulphates 0.01 - 2.00%	EN 1744: Part 1: 1998 EN 1744: Part 1: 1998

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**Construction Material Testing/ Chemical Testing Laboratory**

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
216    Aggregates		
.99    Other tests - Chemical tests	Determination of total sulphur content 0.01 - 2.00%	EN 1744: Part 1: 1998
.99    Other tests - Ten percent fines	Determination of ten percent fines value (TFV) - Dry Condition - Soaked Condition	BS 812: Part 111: 1990

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**Construction Material Testing/ Chemical Testing Laboratory**

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
217 Bituminous materials		
.11 Bitumen	Determination of soluble binder content	EN 12697: Part 1: 2000
.11 Bitumen	Determination of particle size distribution	EN 12697: Part 2: 2000
.11 Bitumen	Determination of percentage refusal density	BS 598: Part 104: 2005
.11 Bitumen	Determination of the maximum density	EN 12697: Part 5: 2002

# Scope of Accreditation



**Mattest (Ireland) Ltd**

Permanent Laboratory:  
Category A

## Construction Material Testing/ Chemical Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
<b>218</b> <b>Soils</b>		
.11    Classification tests	Determination of the particle size distribution	BS1377: Part 2: 1990
.11    Classification tests	Determination of the moisture content	BS1377: Part 2: 1990
.11    Classification tests	Determination of liquid limit (definitive method)	BS1377: Part 2: 1990
.11    Classification tests	Determination of liquid limit (one-point method)	BS1377: Part 2:1990
.11    Classification tests	Determination of the plastic limit	BS 1377: Part 2: 1990
.11    Classification tests	Determination of plasticity index	BS1377: Part 2: 1990
.21    Chemical tests	Determination of sulphate content of soil (gravimetric method) - water extract 0.01 - 2.00%	BS 1377: Part 3: 1990
.21    Chemical tests	Determination of sulphate content of soil (gravimetric method) - acid extract 0.01 - 2.00%	BS 1377: Part 3: 1990

# Scope of Accreditation



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Permanent Laboratory:  
Category A

**Construction Material Testing/ Chemical Testing Laboratory**

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
.21 Chemical tests	Determination of water soluble chloride content 0.01 - 2.00%	BS 1377: Part 3: 1990
.21 Chemical tests	Determination of acid soluble chloride content 0.01 - 2.00%	BS 1377: Part 3: 1990
.21 Chemical tests	Determination of pH value 4.0 - 9.0 pH Units	BS 1377: Part 3: 1990

# Scope of Accreditation



**Mattest (Ireland) Ltd**

Permanent Laboratory:  
Category A

**Construction Material Testing/ Chemical Testing Laboratory**

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
218    Soils		
.31    Compaction and density tests	Determination dry density/moisture content relationship - 2.5/4.5 kg rammer	BS1377: Part 4: 1990
.31    Compaction and density tests	Determination dry density/moisture content relationship - Vibrating hammer	BS 1377: Part 4: 1990
.31    Compaction and density tests	Determination of the moisture condition value (MCV)	BS1377: Part 4: 1990

# Scope of Accreditation



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**Construction Material Testing/ Chemical Testing Laboratory**

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
222 Masonry units and segmental pavers		
.30 Strength tests	Determination of compressive strength - masonry units Load range from 30 to 2000kN	EN 771: Part 1: 2000