

Accreditation Certificate

PMS Pavement Management Services Ltd - Highway Testing Laboratory

Raheen Industrial Estate, Athenry, Co. Galway

Testing Laboratory

Registration number: 230T

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: 09:06:2009

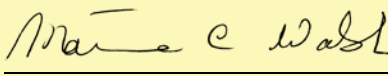
Date of last renewal of accreditation: 09:06:2009

Expiry date of this certificate of accreditation: 09:06:2014

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: 

Dr Máire Walsh

Issued on 09 June 2009

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

PMS PAVEMENT MANAGEMENT SERVICES LTD - HIGHWAY TESTING LABORATORY

Construction Materials Testing Laboratory

Initial Registration Date : 9-June-2009
Postal Address: Raheen Industrial Estate
(Address of other locations as they apply) Athenry
Co. Galway
Telephone: +353 (0)91 877040
Fax: +353 (0)91 844101
E-mail: ht@iol.ie
Contact Name: Brian Mulry
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/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



Highway Testing Laboratory

(Highway Testing Laboratory is a Registered Business of PMS

Pavement Management Services Ltd.)

Construction Materials 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
212 Concrete		
.23 Compression Tests on Moulded Specimens	Determination of Compressive Strength (Loads from 100 kN-2000 kN) Dimension Strength	BS 1881:Part 116: 1983 ISEN 12390-3:2002
.22 Compression Tests on moulded specimens	Concrete Curing	BS 1881:Part 111:1983 ISEN 12390-2:2001
.27 Mass per unit volume of hardened concrete	Determination of Density Determination of Density Dimension	BS 1881:Part 114:1983 ISEN 12390-7:2000 ISEN 12390-1 2000
217 Bituminous Materials		
.61 Asphalts	Binder Content and Aggregate Grading by Ignition Oven Method.	BS DD250:1999 ISEN 12697 - 39 :2004 ISEN 12697 - 2:2002 ISEN 933- 1 1998
.11 Bituminous Macadam		
.99 Road and Paving Materials	Duriez Compressive Strength Test (Loads from 5 kN to 200 kN)	NRA Revised Specification for Stabilised Wet-Mix Macadam (02/11/99) NRA Specification for Grave Emulsions based on French National Standard NF P98-251-4:2004)

Scope of Accreditation



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Construction Materials 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
.11 Bituminous Macadam	Percentage Refusal Density (PRD)	BS 598: Part 104: 1989

Scope of Accreditation



Highway Testing Laboratory

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Construction Materials Testing Laboratory

Permanent Laboratory:

Category B

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
217 Bituminous Materials .99 Roads and Paved Areas	Measurement of Texture Depth by Sand Patch Test Measurement of Pavement Surface Macro-texture depth using a Volumetric Patch Method - Glass Beads	BS 598:Part 105:2000; Clause 5 I.S. EN 13036-1:2001
235 Pedestrial surfaces .01 Wet pendulum frictional resistance .02 Dry floor frictional resistance	Measurement for skid resistance by the pendulum method	IS EN: 13036-4:2003 IS EN 13036-4:2003
254 Construction materials testing equipment .99 Road and Airfield Surfaces - Friction	Measurement of surface skid resisting using the Griptestter	BS 7941-2:2000 Include correlation to SCRIM TRRL PR/H/58/93 Sept 93

Scope of Accreditation



Highway Testing Laboratory

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Permanent Laboratory:
Category B

Construction Materials Testing Laboratory

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
224 Road pavement and surfaces .30 Surface characteristics	SCRIM (Sideway-force Coefficient Routine Investigation Machine)	BS 7941-1:2006 S.R. CEN/TS 15901-6:2009
224 Road pavement and surfaces .40 Structural tests	FWD (Falling Weight Deflectometer)	NRA Guidelines for the use of the Falling Weight Deflectometer in Ireland, July 2000
224 Road pavement and surfaces .20 Surface profile tests	Road Surface Profiler (RSP): Longitudinal and transverse profile	ASTM E1926 - 08 ASTM E950/E950M - 09
224 Road pavement and surfaces .30 Surface characteristics	Road Surface Profiler (RSP): Texture depth	ISO 13473: Part 1: 2004 Characterization of pavement texture by use of surface profiles

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Construction Materials 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
218 Soils .11 Classification Tests	Determination of Moisture Content Determination of Particle Size Distribution (Wet Sieving Method) Determination of Particle Density Determination of Liquid Limit- Definitive Method using the Cone Penetrometer.	BS 1377: Part 2: 1990; Clause 3 BS 1377: Part 2: 1990; Clause 9.2 BS 1377: Part 2: 1990; Clause 8.2 BS 1377: Part 2: 1990; Clause 4.3
216 Aggregates .13 Sieve Analysis	Particle Size Distribution Washing & Sieving Dry Sieving	BS 812: Part 103.1: 1985 ISEN: 933 -1: 1998
216 Aggregates .17 Flakiness Index	Determination of Flakiness Index	BS 812: Part 105 section 105.1:1989 ISEN 933-3:1997

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Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
216 .34 Aggregates Moisture Content Water Content	Determination of Moisture Content Determination of Water Content	BS 812: Part 109: 1990; Clause 6 ISEN 1097-5:2008
216 .20 Aggregates Aggregate Crushing Value	Aggregate Crushing Value (Loads from 100 kN-2000 kN)	BS 812: Part 110: 1990
216 .22 Aggregates Los Angeles Value Particle Density Particle Density and Absorption	Determination of resistance to fragmentation of Los Angeles Value Determination of PD 31.5 mm-63 µm Determination of PD and Absorption 31.5-4.0 mm	ISEN 1097- 2:1998 ISEN 1097-6: 2000 Clause A4 ISEN 1097-6: 2000 Clause 8
216 .99 Aggregates	Assessment of fines- Methylene Blue Test	ISEN 933-9:1999