

Accreditation Certificate

Kilsaran Concrete

Piercetown, Dunboyne, Co. Meath

Testing Laboratory

Registration number: 241T

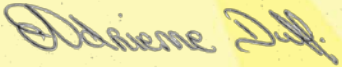
is accredited by the Irish National Accreditation Board (INAB) to undertake testing as detailed in the Schedule bearing the Registration Number detailed above, in compliance with the International Standard ISO/IEC 17025:2005 2nd Edition "General Requirements for the Competence of Testing and Calibration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

Date of award of accreditation: 15:09:2009

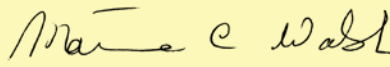
Date of last renewal of accreditation: 15:09:2009

Expiry date of this certificate of accreditation: 15:09:2014

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 15 September 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

KILSARAN CONCRETE Dunboyne Quarry Concrete

Construction Testing Laboratory

<i>Initial Registration Date :</i>	15-September-2009	15-September-2009	15-September-09
<i>Postal Address:</i>	Dunboyne Laboratory	Gallstown Laboratory	Tullamore Lab
<i>(Address of other locations as they apply)</i>	Kilsaran Concrete Group Head Offices Piercetown Dunboyne, Co. Meath	Gallstown Quarry Grangebellew Drogheda Co. Louth	Bunaterin Plant Tullamore Co. Offaly
<i>Telephone:</i>	+353 (1) 8251311	+353 (41)6861515	+353 (57) 9321727
<i>Fax:</i>	+353 (1) 8251782		
<i>E-mail:</i>	keith.goodwin@kilsaran.ie		
<i>Contact Name:</i>	Keith Goodwin		
<i>Facilities:</i>	Normally not available for Public testing		

<i>Initial Registration Date :</i>	15-September-2009
<i>Postal Address:</i>	Ballinascorney Laboratory
<i>(Address of other locations as they apply)</i>	Ballinascorney Quarry Brittas, Co. Dublin
<i>Telephone:</i>	+353 (1) 4582430

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



Kilsaran Concrete

Dunboyne Laboratory, Kilsaran Concrete,

Head Office, Piercetown, Dunboyne, Co. Meath

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
216 Aggregates .03 Sample Preparation	Sample reduction of aggregates and sands in accordance with EN 932-2:1999 cl.8 Riffle Box Method and cl. 10 Quartering Method	EN 932-2:1999 AP2
.13 Sieve analysis	Determination of Particle Size Distribution of Aggregates and Sands in Dry Gradings and cl. 7.1 Washing and sieving. Determination of Particle Size Distribution of Aggregates and Sands with Automatic Particle Size Analyser in accordance with EN 933-1:1997 cl. 4. Dry Gradings and cl. 7.1 Washing and sieving.	EN 933-1:1997/A1 AP5
.17 Flakiness Index	Determination of particle shape - Flakiness Index	EN 933-3:1997/A1 AP5(B)

Scope of Accreditation



Kilsaran Concrete

Dunboyne Laboratory, Kilsaran Concrete,

Head Office, Piercetown, Dunboyne, Co. Meath

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		
.21 Making and curing test specimens in the field	Making and curing of test specimens for strength and density tests in the laboratory.	EN 12390-2:2009 CP3
.27 Mass per unit volume of hardened concrete	Density of hardened concrete	EN 12390-7:2009 CP4
.23 Compression tests on moulded specimens	Compressive strength testing of hardened concrete specimens. Load Range 30-3000 kN	EN 12390-3:2009 CP5
222 Masonry units and segmental pavers		
.30 Strength tests	Tensile splitting strength of Concrete Block Paving, Load Range 30-3000 kN	EN 1338:2003 PP3
	Bending strength and breaking load of concrete Flags, Load Range 30-100 kN	EN 1339:2003 PP4

Scope of Accreditation



Kilsaran Concrete

Dunboyne Laboratory, Kilsaran Concrete,

Head Office Piercetown, Dunboyne, Co. Meath

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
216 Aggregates .01 Sampling	Sampling of aggregates and sands in accordance with EN 932-1:1996 Cl. 8.8 Sampling from Stockpiles	EN 932-1:1996 <i>AP1</i>
212 Concrete .01 Sampling	Sampling of fresh concrete	EN 12350-1:2009 <i>CP1</i>
.12 Consistency	Slump testing of fresh concrete	EN 12350-2:2009 <i>CP2</i>
.22 Curing test specimens in the laboratory	Making and curing of test specimens for strength and density tests in the field	EN 12390-2:2009 <i>CP3</i>

Scope of Accreditation



Kilsaran Concrete

Gallstown Lab, Gallstown Quarry, Grangebellew,

Drogheda, Co. Louth

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
216 Aggregates .03 Sample preparation	Sample reduction of aggregates and sands in accordance with EN 932-2:1999 cl. 8 Riffle Box Method and cl. 10 Quartering Method	EN 932-2:1999 <i>AP2</i>
.13 Sieve analysis	Determination of Particle Size Distribution of Aggregates and Sands in accordance with EN 933-1:1997 CL. 4. Dry Gradings and cl. 7.1 Washing and sieving	EN 933-1:1997/A1 <i>AP5</i>
217 Bituminous materials .11 Bitumens	Sample reduction of bituminous materials Binder content of bituminous materials (Binder Ignition Method) Particle size distribution of resultant Aggregate from Binder Ignition Test	EN 12697-28:2000 <i>BP2</i> EN 12697-39:2004 <i>BP3</i> EN 12697-2:2002/A1 <i>BP3</i>

Scope of Accreditation



Kilsaran Concrete

Gallstown Lab, Gallstown Quarry, Grangebellew,

Drogheda, Co. Louth

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 .21 Making and curing tests specimens in the field	Making and curing of test specimens for strength and density tests in the Laboratory.	EN 12390-2:2009 CP3

Scope of Accreditation



Kilsaran Concrete

Gallstown Lab, Gallstown Quarry, Grangebellew,

Drogheda, Co. Louth

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 .01 Sampling	Sampling of bituminous materials in accordance with EN 12697-27:2000 Cl. 4.1 from a truck, Cl. 4.3 from the Augers of the Paver	EN 12697-27:2000 <i>BP1</i>
212 Concrete .01 Sampling	Sampling of fresh concrete	EN 12350-1:2009 <i>CP1</i>
.12 Consistency	Slump testing of fresh concrete	EN 12350-2:2009 <i>CP2</i>
.22 Curing test specimens in the laboratory	Making and curing of test specimens for strength and density tests in the field	EN 12390-2:2009 <i>CP3</i>
216 Aggregates .01 Sampling	Sampling of aggregates and sands in accordance with EN 932-1:1996 Cl. 8.8 Sampling from Stockpiles	EN 932-1:1996 <i>AP1</i>

Scope of Accreditation



Kilsaran Concrete

Tullamore Laboratory Bunaterin Plant, Tullamore,

Co. Offaly

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
216 .03 Aggregates Sample preparation	Sample reduction of aggregates and sands in accordance with EN 932-2:1999 cl. 8 Riffle Box Method and cl. 10 Quartering Method	EN 932-2:1999 AP2
.13 Sieve analysis	Determination of Particle Size Distribution of Aggregates and Sands in accordance with EN 933-1:1997 cl. 4. Dry Gradings and cl. 7.1 Washing and sieving	EN 933-1:1997/A1 AP5
217 .11 Bituminous materials Bitumens	Sample reduction of bituminous materials Binder content of bituminous materials (Binder Ignition Method) Particle size distribution of resultant Aggregate from Binder Ignition Test	EN 12697-28:2000 BP2 EN 12697-39:2004 BP3 EN 12697-2:2002/A1 BP3
212 .21 Concrete Making and curing test specimens in the field	Making and curing of test specimens for strength and density tests in the Laboratory	EN 12390-2:2009 CP3

Scope of Accreditation



Kilsaran Concrete

Tullamore Laboratory Bunaterin Plant, Tullamore,

Co. Offaly

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
216 Aggregates .01 Sampling	Sampling of aggregates and sands in accordance with EN 932-1:1996 Cl. 8.8 Sampling from Stockpiles	EN 932-1:1996 <i>AP1</i>
217 Bituminous materials .01 Sampling	Sampling of bituminous materials in accordance with EN 12697-27:2000 Cl. 4.1 from a truck, Cl. 4.3 from the Augers of the Paver	EN 12697-27:2000 <i>BP1</i>
212 Concrete .01 Sampling	Sampling of fresh concrete	EN 12350-1:2009 <i>CP1</i>
.12 Consistency	Slump testing of fresh concrete	EN 12350-2:2009 <i>CP2</i>
.22 Curing test specimens in the laboratory	Making and curing of test specimens for strength and density tests in the field	EN 12390-2:2009 <i>CP3</i>

Scope of Accreditation



Kilsaran Concrete

Ballinascorney Laboratory, Ballinascorney Quarry,

Brittas, Co. Dublin

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
216 Aggregates .03 Sample preparation	Sample reduction of aggregates and sands in accordance with EN 932-2:1999 cl. 8 Riffle Box Method and cl. 10 Quartering Method	EN 932-2:1999 <i>AP2</i>
.13 Sieve analysis	Determination of Particle Size Distribution of Aggregates and Sands in accordance with EN 933-1:1997 cl. 4. Dry Gradings and cl. 7.1 Washing and sieving	EN 933-1:1997/A1 <i>AP5</i>
217 Bituminous materials .11 Bitumens	Sample reduction of bituminous materials Binder content of bituminous materials (Binder Ignition Method) Particle size distribution of resultant Aggregate from Binder Ignition Test	EN 12697-28:2000 <i>BP2</i> EN 12697-39:2004 <i>BP3</i> EN 12697-2:2002/A1 <i>BP3</i>

Scope of Accreditation



Kilsaran Concrete

Ballinascorney Laboratory, Ballinascorney Quarry,

Brittas, Co. Dublin

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
216 Aggregates .01 Sampling	Sampling of aggregates and sands in accordance with EN 932-1:1996 Cl. 8.8 Sampling from Stockpiles	EN 932-1:1996 <i>AP1</i>
217 Bituminous materials .01 Sampling	Sampling of bituminous materials in accordance with EN 12697-27:2000 Cl. 4.1 from a truck, Cl. 4.3 from the Augers of the Paver	EN 12697-27:2000 <i>BP1</i>