



ANNUAL REPORT 2018

NSAI TECHNICAL COMMITTEE - NSAI/TC 003

CONCRETE STANDARDS CONSULTATIVE
COMMITTEE

Contents

1	Introduction	3
2	Scope of TC	3
3	Structure and Membership.....	3
3.1	Structure	3
3.2	Members	4
4	Summary of 2018 Activities	5
4.1	National.....	5
4.1.1	Meetings	5
4.1.2	National Work.....	5
4.2	International.....	5
4.2.1	Meetings	5
4.2.2	International Work.....	6
4.2.3	International Standards Reviewed.....	6
4.2.4	International Voting Results	6
5	Irish Publications/Reviews	7
5.1	Publications	7
5.2	Reviews	7
6	Work programme for 2019 onwards	7

1 Introduction

Concrete and its related products are one of the most widely used materials in the construction of Ireland's built environment due in part to its versatility, mechanical properties and low maintenance requirements. It is a material of significant importance to the Irish construction industry and economy. Its use in the construction industry also benefits from the development and maintenance of National and international concrete related standards. Some of the main benefits of standardisation in respect to concrete and its related products include:

- The provision of guidance on the design and execution of concrete structures ensuring a minimum level of safety and reliability are achieved; and,
- The removal of technical barriers to trade, allowing an open market throughout Europe (i.e. CE marking) and providing Irish manufacturers and companies access to larger markets into which they can sell their products and services.



The industry currently has 6 experts involved in international work

The Concrete Standards Consultative Committee (CSCC) provides a representative and strategic forum for the concrete industry in Ireland through which participation in European technical committees concerned with standards relating to concrete and related products for structural and other uses is co-ordinated.

2 Scope of TC

The CSCC (NSAI/TC 003) is responsible for monitoring (mirroring) the work of several CEN technical committees (TCs) related to concrete and its related products. There are currently 3 sub-committees under the remit of the CSCC which are responsible for developing and updating National documents, predominantly Standard Recommendations and National Annexes providing guidance on the design, product, testing and execution standards and codes published by the respective CEN TCs which the CSCC mirror.

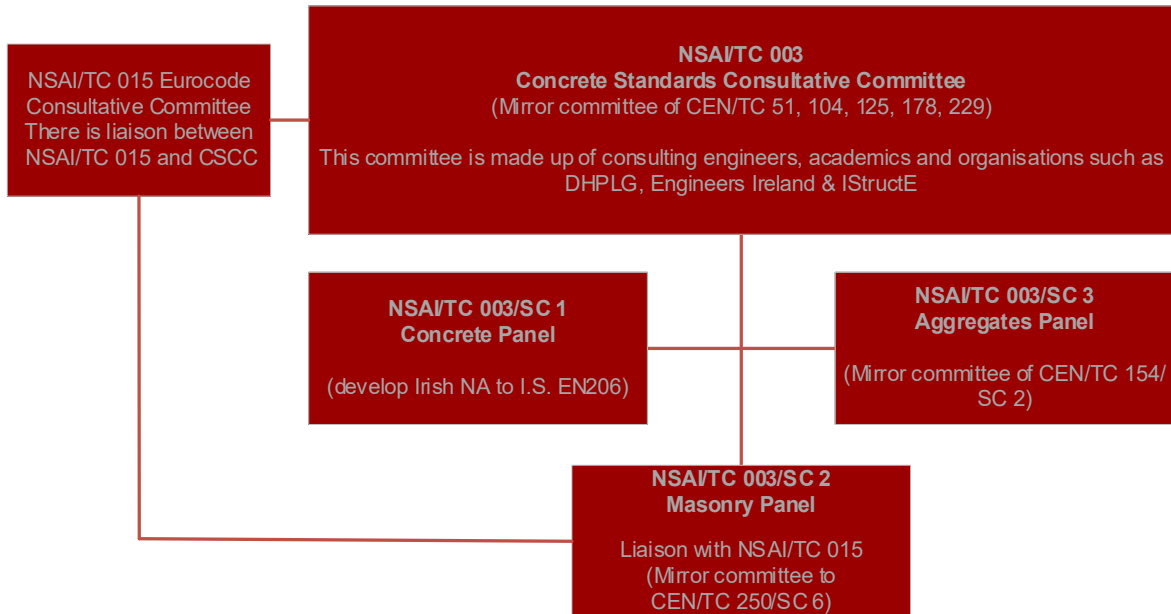
The committee and its sub-committees mirror the following international committees:

Committee Name	Committee Title
CEN/TC 104	Concrete and related products
CEN/TC 104/SC 1	Concrete - Specification, performance, production and conformity
CEN/TC 104/WG 14	Concrete in contact with drinking water
CEN/TC 51	Cement & Building Lime
CEN/TC 125	Masonry
CEN/TC 154/ SC 2	Aggregates for concrete, including those for use in roads and pavements
CEN/TC 178	Paving units and kerbs
CEN/TC 229	Precast concrete products

3 Structure and Membership

3.1 Structure

The Figure below illustrates the structure of the Committee:



3.2 Members

The list below are the members for the year:

Organisation	Name	Role
Cork Institute of Technology	Brian O'Rourke	NSAI/TC 003 Committee Chair
Irish Cement	Richard Bradley	National committee member
Private Consultant	Michael Byrne	National committee member
Infrastruct	Thomas Callanan	National committee member
Roadstone	Donal Crowley	National committee member
Private Consultant	Malachy Dolan	National committee member
DHPLG	Simon Dolphin	National committee member
NSAI	James Duane	National committee member
Kilsaran	Keith Goodwin	National committee member
Roadstone	Colin Heffernan	National committee member
Roadstone	Thomas Holden	National committee member
Dublin Institute of Technology	Niall Holmes	National committee member
IBEC	David Howard	National committee member
Garland Consultancy	Noel Kane	National committee member & SC2 Masonry Panel Chair
Private Consultant	Brendan Lynch	National committee member
Irish Cement	Eanna Nolan	National committee member
Private Consultant	John Reddy	National committee member
Private Consultant	Tori Ryan	National committee member
ICF	Liam Smyth	National committee member
Banagher Precast Concrete	Eamon Stack	National committee member
NSAI (IAB)	Gary O'Sullivan	National committee member
Homebond	Conor Taaffe	National committee member
Trinity College Dublin	Roger West	National committee member
DHPLG	John Wickham	National committee member

4 Summary of 2018 Activities

4.1 National

2018 saw the appointment of a new CSCC National Secretary, as Ken Murphy took over as secretary from Fran Mackey who retired from the NSAI after 40 years' service.

2018 also saw the retirement of Noel Kane as chair of the Masonry Panel. The CSCC would like to acknowledge Noel's enormous contribution to Irish standards development over the last three decades and wish him well upon his retirement.

4.1.1 Meetings

Committee members attended the following national meetings in the NSAI as follows:

MEETING	DATE
1	13 th March 2018
2	18 th October 2018

4.1.2 National Work

The work of the CSCC in 2018 predominantly focused on monitoring the development of international documents such as the revision to EN 206 - Concrete - Specification, performance, production and conformity. The CSCC need to monitor the development of this critical standard closely as any changes in this standard will have implications on the concrete industry in Ireland. As the revision of this document progresses towards CEN enquiry, the committee will need to consider the revision to the Irish National Annex to EN 206.

Other standards under revision/development which the committee monitored during 2018 were:

- EN 197 – Cement – Parts 1 & 2;
- Eurocode 2 – Design of concrete structures; and,
- Eurocode 6 – Design of masonry structures.

Several CSCC committee members sat on the NSAI ad-hoc committee on concrete blocks, NSAI/TC 63, which was tasked with developing and publishing a protocol for the assessment and testing of concrete blocks affected by free mica and pyrite in North West Ireland in an extremely short time-frame. I.S. 465 - Assessment, testing and categorisation of damaged buildings incorporating concrete blocks containing certain deleterious materials was published in 2018 and was welcomed by all stakeholders involved in the remediation of structures affected by the deleterious materials, free mica and pyrite.

A review of the CSCC in its entirety was also undertaken in 2018 to highlight the risks and resources required to complete the committee's work programme over the next three years. The review highlighted the need to consider a restructuring of the CSCC and its sub-committees. The review was presented to the CSCC in October 2018 and will be further discussed in Q1 of 2019 to achieve consensus from the CSCC members as to the most appropriate solution to handle the workload which will arise over the next three years.

4.2 International

4.2.1 Meetings

In April 2018, the NSAI and Irish Cement sponsored the successful plenary meeting of CEN/TC 51 - Cement and building limes at the Clayton Hotel, Ballsbridge, Dublin.

Committee members also attended the following international meetings:

COMMITTEE NAME	LOCATION	DATE
CEN/TC 51	Dublin	April 2018
CEN/TC 104/SC 1	Oslo	June 2018
CEN/TC 125	Brussels	November 2018

4.2.2 International Work

As stated in section 5.1.2, the work at international level which was of most importance to the CSCC in 2018 was the revisions to the following:

- EN197 – Cement - Parts 1 and 2;
- EN206 – Concrete - Specification, performance, production and conformity;
- Eurocode 2 (EN1992) – Design of concrete structure suite of standards – principally EN1992-1-1; and,
- Eurocode 6 (EN1996) – Design of masonry structures - principally EN1996-1-1.

The work on these documents is ongoing with the CEN enquiry stage for the revised prEN197-1 - Cement - Part 1: Composition, specifications and conformity criteria for common cements, due to close in January 2019.

4.2.3 International Standards Reviewed

Sixty-four (64 no) EN standards were scheduled for systematic review in 2018. The CSCC voted to confirm these standards for a further 5 years.

4.2.4 International Voting Results

The following CEN ballots were approved by CSCC members during 2018.

Reference	Result	Closed on
Decision 01-2018 - prCEN TS - Determination of C3A	Approved	14/03/2018
Re-appointment of CEN/TC 229/WG 4 Convenor	Approved	30/04/2018
Appointment of a new WG 9 Convenor - N 1460	Approved	29/05/2018
EN 1341:2012	Approved	30/05/2018
EN 1342:2012	Approved	30/05/2018
EN 1343:2012	Approved	30/05/2018
Draft DECISION 886 - Allocation CEN/TC 104/SC 1 Secretariat	Approved	07/08/2018
FprEN 196-11	Approved	16/08/2018
FprEN 772-22	Approved	20/09/2018
Decision 18-2018 - prEN 197-2:2018 - To be sent to Enquiry	Approved	04/10/2018
Nomination of Paul KUBECZKO - Convenor of CEN/TC 229/WG 3	Approved	30/10/2018
EN 12192-1:2002	Approved	30/11/2018
EN 1344:2013	Approved	30/11/2018
EN 15037-5:2013	Approved	30/11/2018
EN 1504-5:2013	Approved	30/11/2018
EN 196-2:2013	Approved	30/11/2018
EN 459-2:2010	Approved	30/11/2018
EN 845-1:2013+A1:2016	Approved	30/11/2018
EN 1745 - Activation of a PWI	Approved	07/12/2018
FprEN 12350-2 to be submitted to FV	Approved	14/12/2018
FprEN 12350-3 to be submitted to FV	Approved	14/12/2018
FprEN 12350-4 to be submitted to FV	Approved	14/12/2018
FprEN 12350-5 to be submitted to FV	Approved	14/12/2018
FprEN 12350-6 to be submitted to FV	Approved	14/12/2018
FprEN 12350-7 to be submitted to FV	Approved	14/12/2018
FprEN 12350-8 to be submitted to FV	Approved	14/12/2018
FprEN 12390-2 to be submitted to FV	Approved	14/12/2018
FprEN 12390-3 to be submitted to FV	Approved	14/12/2018
FprEN 12390-5 to be submitted to FV	Approved	14/12/2018
FprEN 12390-7 to be submitted to FV	Approved	14/12/2018

FprEN 12390-8 to be submitted to FV	Approved	14/12/2018
FprEN 12504-1 to be submitted to FV	Approved	14/12/2018

5 Irish Publications/Reviews

5.1 Publications

Amendment 2 of S.R. 325 was published in 2018 providing national guidance regarding the application of I.S. EN 13914-1:2016 in relation to external render.

As mentioned in section 5.1.2, I.S. 465:2018 - Assessment, testing and categorisation of damaged buildings incorporating concrete blocks containing certain deleterious materials was also published in 2018.

5.2 Reviews

The committee did not review any national documents in 2018. The revision of a several documents in 2019 will need to be considered. These include:

- I.S. EN 206:2013/NA:2015 - National Annex to I.S. EN 206:2013 - Concrete - Specification, performance, production and conformity;
- I.S. EN 450-1:2005+A1:2007/NA:2010 - Fly ash for concrete - Part 1: Definition, specifications and conformity criteria;
- I.S. EN 934-2:2009/NA:2010 - Admixtures for concrete, mortar and grout - Part 2: Concrete admixtures - Definitions, requirements, conformity, marking and labelling;
- I.S. EN 1520:2002/NA:2010 - Prefabricated reinforced components of lightweight aggregate concrete with open structure;
- I.S. EN 12737:2004+A1:2007/NA:2008 - Irish National Annex to Precast concrete products - Floor slats for livestock;
- I.S. EN 13224:2004+A1:2007/NA:2010 – Irish National Annex to Precast concrete products - Ribbed floor elements; and,
- I.S. EN 13225:2004/NA:2010 – Irish National Annex to Precast concrete products - Linear structural elements.

6 Work programme for 2019 onwards

2019 will see an increase in the workload of the CSCC. As listed in section 6.2, several reviews will need to be carried out.

A full revision of S.R. 325 - Recommendations for the design of masonry structures in Ireland to Eurocode 6 is also scheduled to begin in 2019.

Subject to the progress made on the revision to EN 206, the CSCC will need to review the new revised CEN enquiry draft of the document once made available and consider the revision of the Irish National Annex (NA) to EN 206. Significant resources will be required by the CSCC to revise and develop S.R 325 and the Irish NA to EN 206. Therefore, further consideration to the restructure of the CSCC and its sub-committees will need to take place during 2019 to ensure the development of these documents is not impacted.