



# ANNUAL REPORT 2022

NSAI TECHNICAL COMMITTEE - NSAI/TC 003

CONCRETE STANDARDS CONSULTATIVE  
COMMITTEE

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## 1 Introduction

Concrete and its related products are some of the most widely used materials in the construction of Ireland's built environment due in part to their versatility, mechanical properties and low maintenance requirements. Concrete is a material which is 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 industry currently has 6 experts involved in international work

- 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 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 a number of CEN technical committees (TCs) associated with concrete and its related products. The CSCC is also responsible for developing and updating National documents, predominantly Standard Recommendations and National Annexes providing guidance on the design, production, testing and execution standards and codes published by the respective CEN TCs which the CSCC mirror.

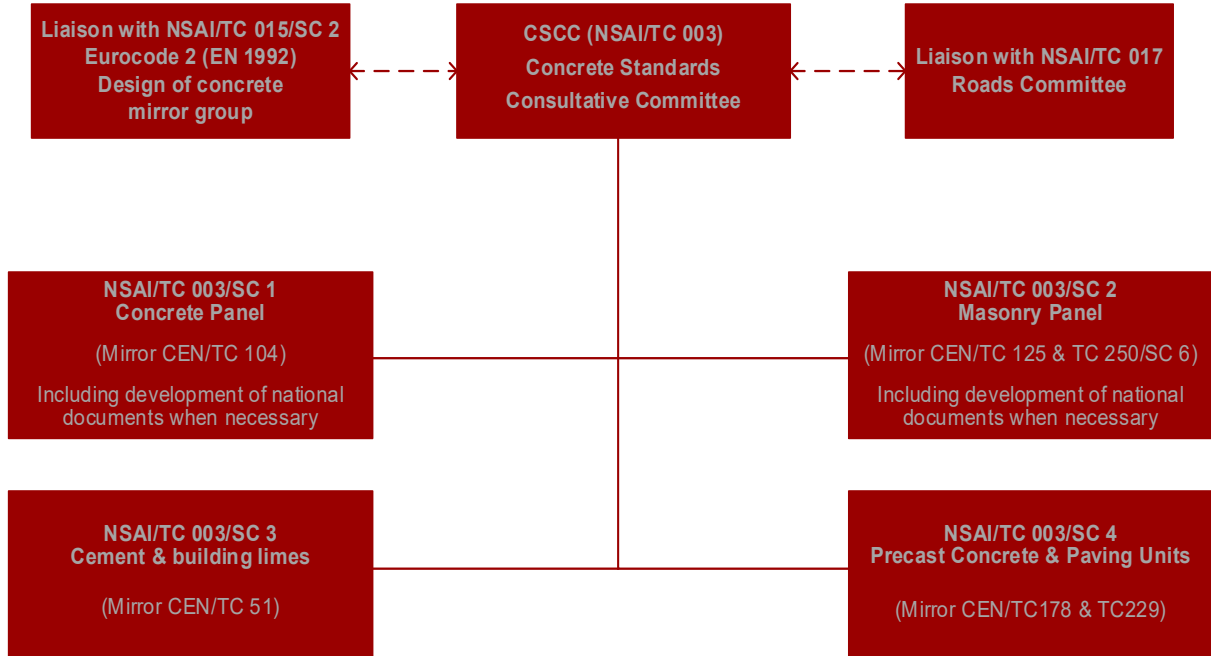
The committee and sub-committees mirror the following international committees:

Committee Name	Committee Title
<b>CEN/TC 104</b>	Concrete and related products
<b>CEN/TC 104/SC 1</b>	Concrete - Specification, performance, production and conformity
<b>CEN/TC 104/SC 1/WG 1</b>	Exposure Resistance Classes (RC)
<b>CEN/TC 104/WG 15</b>	Ground granulated blast furnace slag
<b>CEN/TC 51</b>	Cement & Building Lime
<b>CEN/TC 125</b>	Masonry
<b>CEN/TC 178</b>	Paving units and kerbs
<b>CEN/TC 229</b>	Precast concrete products
<b>CEN/TC 250/SC 6</b>	Eurocode 6 – Design of Masonry Structures

### 3 Structure and Membership

#### 3.1 Structure

The Figure below illustrates the structure of the Committee:



#### 3.2 Members

The organisations involved in the CSCC and its subcommittees in 2022 are listed below:

Organisation
Banagher Precast Concrete
Breedon
Clogrennane
CMI
DHLGH
Ecocem
Homebond
IBEC
ICF
ICS
Infrastruct
Irish Cement
Kilsaran
MTU
NBCO
NSAI (SBE - Certification)
Private Consultants
Roadstone
Trinity College Dublin
TUD

## 4 Summary of 2022 Activities

### 4.1 National

#### 4.1.1 Meetings

Members attended the following CSCC meetings on-line in 2022:

Meeting	Date	Location
1	29 <sup>th</sup> March 2022	On-line
2	15 <sup>th</sup> November 2022	On-line

The sub-committees of the CSCC also met during 2022.

The Masonry Panel met frequently throughout 2022.

The Concrete Panel met with Ecocem/DCU/Repak to hear of research being carried out on recycled container glass powder. Discussions on the progress and impact of a new standard being developed, EN 206 Part 100 on exposure resistance classes were also held.

#### 4.1.2 National Work

The work of the CSCC and its subcommittees in 2022 was predominantly focused on monitoring the development of international documents such as the new document, EN 206 Part 100 on exposure resistance classes and the progress of the revision to EN206 – *Concrete - Specification, performance, production and conformity*.

The Concrete Panel (NSAI/TC 003/SC 1) has taken on the role of monitoring the development of EN 206 as any changes in this standard will have implications on the concrete industry in Ireland. The revision of EN 206 progressed slowly during 2022 but the Panel met with the convener of the ad-hoc group developing EN 206 Part 100 to get an understanding of the work involved in the development of the Exposure Resistance Class guidance.

The Concrete Panel also reviewed the revised Clause 4 of the draft I.S. 420 – Concrete Manholes being developed by NSAI/TC 11/WG 7.

The Masonry Panel (NSAI/TC 3/SC 2) formally undertook a review of S.R. 325 which involved a public consultation on the content of the document.

NSAI/TC 3/SC 3 – Cement and building closely monitored the work of CEN/TC 51.

### 4.2 International

#### 4.2.1 Meetings

Committee members attended the following international meetings in 2022:

Committee name	Location	Date
<b>CEN/TC 104/SC 1/WG 1 - EXPOSURE RESISTANCE CLASSES (RC)</b>	On-Line	February 2022
<b>CEN/TC 104/SC 1 - CONCRETE - SPECIFICATION, PERFORMANCE, PRODUCTION AND CONFORMITY</b>	On-Line	30 June 2022
<b>CEN/TC 104 - CONCRETE AND RELATED PRODUCTS</b>	On-Line	1 July 2022
<b>CEN/TC 125 - MASONRY</b>	On-Line	27 January 2022
<b>CEN/TC 51 - CEMENT AND BUILDING LIMES</b>	On-Line	24 March 2022

### 4.2.2 International Work

As stated in section 4.1.2, the work at international level which was of most importance to the CSCC in 2022 was the work of CEN/TC 104 and its Subcommittee (SC 1) in developing a new document, EN 206 Part 100 on exposure resistance classes and the progress of the revision to EN206 – *Concrete - Specification, performance, production and conformity*.

CEN/TC 51 – Cement and building lime, worked on finalising prEN 197-6: Cement - Part 6: Cement with recycled building materials.

Work of CEN/TC 125 - Masonry was limited in 2022, with work of CEN/TC 229 - Precast concrete focused on the CPR Acquis process. A call for experts was made by CEN/TC 229 to support a revision of EN 12737. This would be of interest to the agricultural sector in Ireland and the NSAI sought experts to support any future work on this standard with the potential for a national ad-hoc group being established in 2023.

There were also many concrete, cement and masonry standards confirmed in 2022.

### 4.2.3 International Voting Results

International and regional committees mirrored by the CSCC subcommittees issued 95 ballots in 2022. NSAI actively voted on 22% of these ballots.

## 5 Irish Publications/Reviews

### 5.1 Publications

There were no national documents published by the CSCC in 2022.

### 5.2 Reviews

There were no reviews carried out by the CSCC or its sub-committees in 2022.

## 6 Work programme for 2023 onwards

The Concrete Panel (NSAI/TC 003/SC 1) will continue to closely monitor the work and developments associated with Exposure Resistance Classes and the EN 206 Part 100 document in conjunction with NSAI/TC 15/SC 2 especially due to the inclusion of the performance rules using an ERC approach alongside the Deemed to Satisfy rules in the new EN 1992-1-1 Eurocode 2 general part.

CSCC members will also need to support NSAI/TC 15/SC 2 in the review of the NDPs in the prEN 1992-1-1 Eurocode 2 standard.

The review of S.R. 325 - *Recommendations for the design of masonry structures in Ireland to Eurocode 6* will continue into 2023 with the identification of evidence-based research needs and call for research data to be provided to NSAI/TC 3/SC 2 to allow for informed discussion and decisions to be made by the committee when revising the document.

Members will explore the need to establish an ad-hoc group to monitor any potential developments associated with a revision of EN 12737 Precast concrete slats for livestock.

The revision of the Construction Products Regulation (CPR – Regulation No. 305/2011) will progress through out 2023 which will have a significant impact on harmonised standards, CE marking and the single market over the coming years. As part of this the CPR Acquis process examining essential performance based characteristics is due to focus on cement products in 2023 and the NSAI/TC 003/SC 3 dealing with cement and building lime will be monitoring this work.

Actions falling out of government initiatives eg in the area of climate action and housing for all may also impact the work of NSAI TC 003.

Significant resources will be required by the CSCC and the NSAI secretariat in 2023 and beyond particularly in respect to member's time and commitment as well as the need for any associated research and calibration studies which may be required.



**NSAI**  
Standards

## NSAI/TC 003 Concrete Standards Consultative Committee

*NSAI Annual Report 2022*