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Ministry of Housing, Infrastructure and Outlying Districts

## **EN 13670 GL NA:2025**

National Annex to

### **EN 13670: Execution of concrete structures**

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#### **Foreword**

This Greenlandic National Annex (GL NA) replaces EN 13670 GL NA:2024.

The Annex is based on DS 2427:2011, including its 2017 corrigendum, which is the Danish National Annex to EN 13670:2010.

The Annex carries forward a number of provisions from '*Forskrifter for betonkonstruktioner*' (Regulations for Concrete Structures), Greenland Home Rule, 1996.

#### **Scope**

This Annex is adapted to national, geographical and climatic conditions as well as national legislation and specifies how EN 13670:2010 including amendments is to be applied in Greenland.

The Annex provides Greenlandic national choices and complementary information. For any complementary information, it is specified whether it is normative or informative. Normative information comprises requirements to be followed.

For structures covered by the Danish Building Regulations BR 24, levels of checking are left out and execution classes (EXC1, EXC2, and EXC3) are used to specify the extent of checking and other requirements for execution. Provisions related to execution classes are specified in DS/EN 1990 GL NA, Annex B5, DS 1140, DS/EN 13670 and DS 2427.

The numbering in the Annex refers to the numbering in EN 13670:2010 and DS 2427:2011.



## Overview of Greenlandic national choices and complementary information

EN 13670 and DS 2427 are applicable with the following national choices and complementary information:

Clause	Subject	Change
DK NA	References in DK NA	National choice
4.3.1	Execution classes, Requirements for independent inspection	Complementary information, Informative
8.5 (9) NOTES 1 and 2	Curing and protection, air humidity	Complementary information, Normative
8.5 (17)	Curing and protection, cold water casting	Complementary information, Normative
8.5 (18)	Curing and protection, concrete temperature during casting in frost	Complementary information, Normative
8.5 (19)	Curing and protection, measures for casting at temperatures below -10 °C.	Complementary information, Normative



## **National choices**

### **References in DK NA**

References in DS 2427 to other Danish National Annexes are replaced by references to corresponding Greenlandic National Annexes, where these are available. Where these do not exist, the Danish National Annexes apply.



## Complementary information, Normative

### 8.5 Curing and protection

(9)

NOTE 1: When determining the duration of curing, it must be taken into account that humidity can vary significantly.

NOTE 2: See SBI instruction 215, *Winter concreting*.

(17) When casting and curing in or near cold water, measures shall be taken to ensure that the water does not, through cooling of the formwork and the concrete, impair or damage the curing and properties of the concrete.

NOTE: Cold water close to 0 °C, e.g. seawater, cools the concrete if it washes up and down the formwork during curing. As a result, the curing may be impeded or, in the worst case, stop altogether, and the development of the concrete's expected properties may be impaired

(18) When casting in freezing weather, the temperature of the concrete at the time of placement shall be at least +10 °C.

(19) For casting where the air temperature is expected to remain below (-)10 °C for two days or more after placement, special measures shall be taken to protect the concrete from freezing.

NOTE: Special measures to protect concrete when casting below -10 °C may include insulation and heating of the concrete and the formwork.



## **Complementary information, Informative**

### **4.3.1 Execution classes**

(17)

NOTE 2: Independent inspection is not carried out for structures attributed to structural class KK2 in accordance with EN 1990 GL NA, Annex B5.