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Ministry of Housing, Infrastructure and Outlying Districts

EN 1993-5 GL NA:2025

National Annex to

Eurocode 3: Design of steel structures – Part 5: Piling

Foreword

This Greenlandic National Annex (GL NA) is based on DS/EN 1993-5 DK NA:2017

Scope

The Annex is adapted to national, geographical and climatic conditions as well as national legislation and specifies how EN 1993-5:2007 and its 2009 corrigenda are 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.

The numbering in the Annex refers to the numbering in EN 1993-5:2007 or DS/EN 1993-5 DK NA:2017.



Overview of possible Greenlandic national choices and complementary information

DS/EN 1993-5 DK NA:2017 is applicable with the following national choices and complementary information:

Clause	Subject	Change
DK NA	References in DK NA	National choice
3.9 (1)P	Lowest service temperature for assessment of fracture toughness	National choice
5.1.1(4) NOTE	Partial factors for materials Application of control class	National choice
5.2.2 (2) NOTE 9	Bending and shear for sheet piling of single and double U-piles	Complementary information, informative



National choices

References in DK NA

References in DS/EN 1993-5 DK NA:2017 to other Danish National Annexes are replaced by references to corresponding Greenlandic National Annexes. Where these do not exist, the Danish National Annexes apply.

3.9(1)P Lowest service temperature for assessment of fracture toughness

The lowest service temperature is determined for the location in question. Where sufficient data for determining the lowest service temperature are not available, an agreement shall be made with the building authority regarding its determination.

NOTE: For the lowest service temperature for the assessment of fracture toughness, the characteristic minimum temperature in accordance with EN 1991-1-5, Table A.1(1) GL NA, may be used.

5.1.1(4) Partial factors for materials, Note

The note is deleted and replaced by:

For structures covered by the Danish Building Regulations 2024, chap. 1.3, section 6 and 7, the extended control class cannot be applied, and γ_3 is taken as 1,00.

For the manufacturing of components with attestation level AVCP 1+, 1 and 2+ and with certification for the scope of inspection at least corresponding to provisions in DS/EN 1990 DK NA:2024, Annex F DK NA (7) and (8), γ_3 may be taken as 0,95.



Complementary information

Informative

5.2.2(2) Bending and shear for sheet piling of single and double U-piles

The following is added:

NOTE 9: When piling in permafrost, ice-rich deposits, or in soil that during winter contains more ice than the pore volume of the corresponding thawed and drained material, a seasonal or permanent thawing of the ground may result in more unfavourable conditions for the structure.