Ineqarnermut, Attaveqaasersuutinut Isorliunerusunullu Naalakkersuisoqarfik
Ministry of Housing, Infrastructure and Outlying Districts

EN 1999-1-x GL NA:2025

National Annex to
Eurocode 9: Design of aluminium structures –
Part 1-1: General structural rules
Part 1-2: Structural fire design
Part 1-3: Structures susceptible to fatigue

Foreword

This Greenlandic National Annex (GL NA) replaces EN 1999-1-x GL NA:2024 (Parts 1-1 and 1-3).

Scope

This Annex is adapted to national, geographical and climatic conditions as well as national legislation and specifies how EN 1999-1-1:2008 with its 2009, 2010 and 2014 amendments, EN 1999-1-2:2008 with its 2009 amendment, and EN 1999-1-3:2008 with its 2012 amendment 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.

The numbering in the Annex refers to the numbering in EN 1999-1-1:2008, EN 1999-1-2:2008, and EN 1999-1-3:2007 or the associated DS/EN 1999-1-1 DK NA:2019, DS/EN 1999-1-2 DK NA:2007, and DS/EN 1999-1-3 DK NA:2011.

Overview of Greenlandic national choices and complementary information

DS/EN 1999-1-1 DK NA:2019, DS/EN 1999-1-2 DK NA:2007, and DS/EN 1999-1-3 DK NA:2011 are applicable with the following national choices and complementary information:

Clause	Subject	Change
DK NA	References in DK NA	National choice
EN 1999-1-1, 6.1.3(1)	Partial safety factors	National choice
EN 1999-1-1, 7.2.1(1)	Serviceability limit states for buildings – Vertical deflections	Complementary information, Normative
EN 1999-1-1, 7.2.2(1)	Serviceability limit states for buildings – Horizontal deflections	Complementary information, Normative
EN 1999-1-2, 2.4.2(3)	Member analysis – Reduction factor for load combinations	National choice

National choices

References in DK NA
References in DS/EN 1999-1-1 DK NA:2019 and DS/EN 1999-1-3:2011 to other Danish National Annexes are replaced by references to corresponding Greenlandic National Annexes. Where these do not exist, the Danish National Annexes apply.

EN 1999-1-1, 6.1.3(1), Partial safety factors
For structures covered by the Danish Building Regulations, 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:2021, Annex F DK NA (7) and (8), γ_3 may be taken as 0,95.

EN 1999-1-2, 2.4.2(3) Member analysis – Reduction factor for load combinations
NOTE 2 is replaced by:

NOTE 2: An example of the relationship between the reduction factor, η_{fi}, and the load factor, $Q_{k,1}/G_k$, is given in EN 1990 GL NA, A1.3.1(8).

NOTE 3 is replaced by:

NOTE 3: Where the ratio between the characteristic values of variable and permanent loads, Q_k/G_k, is ≥ 1,0, a simplified value of η_{fi} = 0,65 may be applied, except for areas with imposed loads corresponding to category E in accordance with EN 1991-1-1:2007, where η_{fi} = 0,75. For Q_k/G_k < 1,0, η_{fi} is determined according to Expressions (2.5a) and (2.5b) or EN 1990 GL NA, Figure A1.3.1 GL NA.

NOTE 4 The following note is added:

NOTE 4: Expressions (2.5a) and (2.5b) shall be used instead of Expression (2.5) in accordance with the national choice in EN 1990 GL NA when calculating load combinations in STR.

Complementary information
Normative

EN 1999-1-1, 7.2.1(1), Serviceability limit states for buildings – Vertical deflections
The complementary information given in DS/EN 1999-1-1 DK NA:2019 applies.

EN 1999-1-1, 7.2.2(1), Serviceability limit states for buildings – Horizontal deflections
The complementary information given in DS/EN 1999-1-1 DK NA:2019 applies.