

Icelandic National Annexes to EUROCODES

(The following National Annexes, which contain special requirements for bridges,
are not included in this book: 1991-2 / 1992-2 / 1993-2 / 1994-2 / 1995-2)

Íslenskir þjóðarviðaukar við evrópska þolhönnunarstaðla

(Eftirtaldir viðaukar, sem innihalda sérákvæði fyrir brýr,
eru ekki í þessari bók: 1991-2 / 1992-2 / 1993-2 / 1994-2 / 1995-2)



Sýnishorn

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Án skriflegs leyfis útgefanda má ekki endurprenta eða afrita þennan staðal með neinum hætti, vélrænum eða rafrænum, svo sem ljósritun, hjóðritun eða annarri aðferð sem nú er þekkt eða verður síðar fundin upp, né miðla staðlinum í rafrænu gagnasafni.

1. prentun.

Formáli

Skjölin í þessu riti eru íslenskir þjóðarviðaukar við evrópska þolhönnunarstaðla (Icelandic National Annexes to Eurocodes) sem gefnir hafa verið út sem íslenskir staðlar.

Þjóðarviðaukarnir eru gefnir út á ensku þar sem ekki er hægt að fá þolhönnunarstaðlana sjálfa á íslensku.

Viðaukar við þá staðla sem varða sérstaklega hönnun brúarmannvirkja eru ekki hluti af þessari útgáfu. Áætlað er að þeir taki gildi sem íslenskir staðlar fyrripart ársins 2011. Um er að ræða EN 1991-2 / EN 1992-2 / EN 1993-2 / EN 1994-2 / EN 1995-2.

Við hönnun mannvirkja hérlendis skal því hér eftir aðeins nota evrópsku þolhönnunarstaðlana ásamt íslensku þjóðarviðaukunum. Kröfur byggingarreglugerðar teljast þá uppfylltar.

Með gildistöku þessara þjóðarviðauka við evrópsku þolhönnunarstaðlana falla úr gildi heimildir til að nota íslensku forstaðlana um þolhönnun (ENV) sem og heimildir til að nota aðra staðla við þolhönnun.

Öryggiskröfur sem settar eru fram í stöðlunum eru á ábyrgð viðkomandi stjórnvalda og geta verið breytilegar í aðildarlöndum CEN (Evrópsku staðlasamtakanna)

Í þjóðarviðaukunum má m.a. finna:

- Tölugildi sem gilda hérlendis, ef nota á önnur gildi en koma fram í evrópsku þolhönnunarstöðlunum.
- Tilvísanir í ákveðna staðla eða leiðbeiningar eftir því sem við á.
- Leiðbeiningar um notkun þjóðarviðaukanna eftir því sem við á.

Í þjóðarviðaukunum er vísað í allar greinar sem heimilt er að gera sérstaka viðbót við, þó að í mörgum tilfellum sé aðeins vísað til að nota ákvæði viðkomandi staðals óbreytt.

Byggingarstaðlaráð sá um gerð þjóðarviðaukanna með stuðningi frá umhverfisráðuneytinu. Sérstakur stýrihópur sem skipaður var af umhverfisráðherra hafði yfirumsjón með gerð skjalanna.

Stýrihópurinn skipaðu:

- Dr. Hafsteinn Pálsson, umhverfisráðuneyti, formaður
- Jón Sigurjónsson, Nýsköpunarmiðstöð Íslands, formaður Byggingarstaðlaráðs
- Níels Indriðason, Verkís
- Dr. Bjarni Bessason, Háskóli Íslands
- Dr. Eyjólfur Árni Rafnsson, Mannvit verkfræðistofa.

Þrjú vinnuhópar störfuðu að gerð þjóðarviðaukanna:

Grundun

- Pálmi Ragnar Pálmason, Verkís
- Jórunn Halldórsdóttir, Mannvit verkfræðistofa
- Jón Skúlason, Almenna verkfræðistofan
- Jón Skúli Indriðason, Efla verkfræðistofa

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- Snæbjörn Kristjánsson, Ferill verkfræðistofa
- Baldvin Einarsson, Efla verkfræðistofa
- Eggert Valmundsson, Verkís

Álagsstaðlar

- Flosi Sigurðsson, Verkís
- Guðbrandur Steinþórsson, Háskólinn í Reykjavík
- Dr. Bjarni Bessason, Háskóli Íslands

Aðrir staðlar

Brunastaðlar

- Dr. Björn Karlsson, Brunamálastofnun
- Benedikt Jónsson, Brunamálastofnun

Brúarstaðlar

- Einar Hafliðason, Vegagerðin

Aðrir sem komu að starfi nefndanna voru:

- Guðmundur Gunnarsson, Brunamálastofnun
- Bjarni Ingibergsson, BM Vallá
- Bjarni Jón Pálsson, Efla verkfræðistofa
- Úlfar Aðalsteinsson, Almenna verkfræðistofan
- Hrund Einarsdóttir, Ferill verkfræðistofa

Með öllum vinnuhópum störfuðu:

- Arngrímur Blöndahl, Byggingarstaðlaráð / Staðlaráð Íslands
- Dr. Hafsteinn Pálsson, umhverfisráðuneyti / BSTR

Eftirtaldir aðilar styrktu verkefnið með fjárframlögum:

- Umhverfisráðuneytið
- Brunamálastofnun
- Framkvæmdasýsla ríkisins
- Fasteignir ríkissjóðs
- Vegagerðin

Foreword

This document contains the Icelandic National Annexes to the Eurocodes, that have been adopted as Icelandic Standards.

The National Annexes are published in English as the Eurocodes themselves are only available in English.

National Annexes to those Eurocodes that refer specifically to bridge constructions are not part of this publication. It is foreseen that these Annexes will be adopted as Icelandic Standards in the first half of 2011, i.e. the National Annexes to ÍST EN 1991-2, ÍST EN 1992-2, ÍST EN 1993-2, ÍST EN 1994-2 and ÍST EN 1995-2.

From now on, only the Eurocodes with their respective National Annexes shall be used for construction design in Iceland. The requirements of the Icelandic Building Regulation are then considered to be fulfilled.

With the adoption of these National Annexes to the Eurocodes, any permissions to use the Icelandic prestandards for construction design (ENVs) or other standards are withdrawn.

The safety requirements contained in the standards are the responsibility of the relevant authorities and can be different in different CEN member countries.

The National Annexes contain:

- Numerical values that apply in Iceland, if these are different from the values given in the Eurocodes.
- References to specific standards or guidelines, as appropriate.
- Guidance for the use of the National Annexes, as appropriate.

The National Annexes refer to all clauses where a special amendment is allowed, even if in many cases it has been decided not to amend the clause.

The Construction Sector Committee of Icelandic Standards (Byggingarstaðlaráð, BSTR) was responsible for developing the National Annexes with the financial support of the Ministry for Environment. A Steering Group appointed by the Minister supervised the development of the National Annexes.

The Steering Groups membership was as follows:

- Dr. Hafsteinn Pálsson, Ministry for Environment, Chairman
- Jón Sigurjónsson, Innovation Center Iceland
- Níels Indriðason, Verkís engineering
- Dr. Bjarni Bessason, University of Iceland
- Dr. Eyjólfur Árni Rafnsson, Mannvit engineering.

Three Working Groups were set up to develop the National Annexes:

Geotechnic and Foundation

- Pálmi Ragnar Pálmason, Verkís engineering
- Jórunn Halldórsdóttir, Mannvit engineering
- Jón Skúlason, Almenna verkfræðistofan engineering
- Jón Skúli Indriðason, Efla engineering

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- Snæbjörn Kristjánsson, Ferill engineering
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Loads

- Flosi Sigurðsson, Verkís engineering
- Guðbrandur Steinþórsson, Reykjavík University
- Dr. Bjarni Bessason, University of Iceland

Other standards

Fire

- Dr. Björn Karlsson, Iceland Fire Authority
- Benedikt Jónsson, Iceland Fire Authority

Bridges

- Einar Hafliðason, The Icelandic Road Administration

Other experts who participated:

- Guðmundur Gunnarsson, Iceland Fire Authority
- Bjarni Ingibergsson, BM Vallá
- Bjarni Jón Pálsson, Efla engineering
- Úlfar Aðalsteinsson, Almenna verkfræðistofan engineering
- Hrund Einarsdóttir, Ferill engineering

All Working Groups were assisted by:

- Arngrímur Blöndahl, Construction Sector Committee of Icelandic Standards
- Dr. Hafsteinn Pálsson, Ministry for Environment

Financial support was received from:

- Ministry for Environment
- Iceland Fire Authority
- The Government Construction Contracting Agency
- The Government Real Estate
- The Icelandic Road Administration

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** The following National Annexes which contain special requirements for bridges are not included in this document: 1991-2 / 1992-2 / 1993-2 / 1994-2 / 1995-2.*

ÍST EN 1990 EUROCODE 0
Basis of structural design

Sýnishorn

National Annex to IST EN 1990:2002

EUROCODE: Basis of Structural Design

Preface

National choice is allowed in EN 1990 through clauses:

- A1.1
- A1.2.1 (1)
- A1.2.2 (Table A1.1)
- A1.3.1 (Tables A1.2(A) to (C))
- A1.3.1 (5)
- A1.3.2 (Table A1.3)
- A1.4.2 (2)

Furthermore, guidance can be given for the use of informative annexes.

CLAUSES

Annex A

| | |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| A1.1 | Table 2.1 Indicative design working life shall be used as it is. |
| | Table A1.1 Recommended values for factors for buildings shall be used as it is. |
| A1.2.1 (1) | This section shall be used as it is. |
| A1.2.2 (Table A1.1) | This section shall be used as it is. |
| A1.3.1 (Tables A1.2 (A) to (C)) | This section shall be used as it is. |
| A1.3.1 (5) | Not specified. |
| A1.3.2 (Table A1.3) | Not specified. When the main action is snow, ice, or wind, ψ_{11} is to be used, otherwise ψ_{21} shall be used. |
| A1.4.2 (2) | Use as recommended. |