

**Eurocode 3: Design of steel structures**  
**Part 3-2: Towers, masts and chimneys**  
**Chimneys**  
**Estonian National Annex**

**Eurokoodeks 3: Teraskonstruksioonide projekteerimine**  
**Osa 3-2: Tornid, mastid ja korstnad**  
**Korstnad**  
**Eesti standardi rahvuslik lisa**

## FOREWORD

This document:

- is the Estonian National Annex to the European Standard EN 1993-3-2:2006 “Eurocode 3: Design of steel structures – Part 3-2: Towers, masts and chimneys – Chimneys”. It includes Estonian Nationally Determined Parameters (NDP) and procedures and it must be used together with EN 1993-3-2:2006 for structural design of constructions built in Estonia;
- was ratified with order nr 272 of the Estonian Centre for Standardisation dated 17.12.2009;
- has been endorsed with a notification published in the January 2010 issue of the official bulletin of the Estonian centre for Standardisation.

The National annex of EVS-EN 1993-3-2 was prepared by Aldur Parts. This document has been approved by Technical Committee EVS/TK 13 „Ehituskonstruksioonide projekteerimine“.

The proposition to prepare a national annex was made by EVS/TK 13, it was coordinated by the Estonian Centre for Standardisation.

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## Annex NA (informative) National requirements for Estonia

According to EN 1993-3-2:2006 every country should implement a national annex that might give alternative procedures, values and recommendations for classes with Notes indicating where National choice may be made. National choice is allowed in the following clauses:

- |              |                     |
|--------------|---------------------|
| — 2.3.3.1(1) | — 6.4.3(2)          |
| — 2.3.3.5(1) | — 7.2(1)            |
| — 2.6(1)     | — 7.2(2)            |
| — 4.2(1)     | — 9.1(3)            |
| — 5.1(1)     | — 9.1(4)            |
| — 5.2.1(3)   | — 9.5(1)            |
| — 6.1(1)P    | — A.1(1)            |
| — 6.2.1(6)   | — A.2(1) (2 places) |
| — 6.4.1(1)   | — C.2(1)            |
| — 6.4.2(1)   |                     |

### NA.2.3.3.1 Imposed loads

(1) Imposed loads should be applied on platforms and railings.

NOTE 1 The National Annex may give information on imposed loads on platforms and railings. The following characteristic values of imposed loads are recommended:

- Imposed loads on platforms:  $2,0 \text{ kN/m}^2$  (see also EN 13084-1) ... (2.1a)
- Horizontal loads on railings:  $0,5 \text{ kN/m}$  ... (2.1b)

— *No additional information is given in the Estonian National Annex.*

NOTE 2 These loads may be assumed to act in the absence of other climatic loads.

### NA.2.3.3.5 Ice loads

(1) For chimneys that are likely to be subject to ice loading, the appropriate ice thicknesses, densities and distributions should be determined.

NOTE 1 The National Annex may give further information on ice loading.

— *No further information is given in the Estonian National Annex.*

NOTE 2 See also 2.3.2 of EN 1993-3-1.

### NA.2.6 Durability

(1) Durability should be satisfied by complying with the fatigue assessment (see section 9) and appropriate choice of the calculated shell thickness (see 4) and/or by appropriate corrosion protection. See also section 4 of EN 1993-1-1.

NOTE The National Annex may give information on the design service life of the structure. A service life of 30 years is recommended.