SLOVENSKI STANDARD
SIST EN 1991-1-3:2004/oprA1:2013

01-december-2013

Evrokod 1: Vplivi na konstrukcije - 1-3. del: Splošni vplivi - Obtežba snega

Eurocode 1 - Actions on structures - Part 1-3: General actions - Snow loads

Eurocode 1 - Einwirkungen auf Tragwerke - Teil 1-3: Allgemeine Einwirkungen, Schneelasten

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Eurocode 1 - Actions sur les structures - Partie 1-3: Actions générales - Charges de neige

Ta slovenski standard je istoveten z: EN 1991-1-3:2003/prA1

ICS:

91.010.30	Tehnični vidiki	Technical aspects

SIST EN 1991-1-3:2004/oprA1:2013   **en,fr,de**

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
EN 1991-1-3:2003

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October 2013

ICS 91.010.30

English Version

Eurocode 1 - Actions on structures - Part 1-3: General actions - Snow loads

Eurocode 1 - Actions sur les structures - Partie 1-3: Actions générales - Charges de neige

Eurocode 1 - Einwirkungen auf Tragwerke - Teil 1-3: Allgemeine Einwirkungen, Schneelasten

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 250.

This draft amendment A1, if approved, will modify the European Standard EN 1991-1-3:2003. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN 1991-1-3:2003/prA1:2013 (E)

Contents

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Foreword

This document (EN 1991-1-3:2003/prA1:2013) has been prepared by Technical Committee CEN/TC 250 "Structural Eurocodes", the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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EN 1991-1-3:2003/prA1:2013 (E)

1 Modifications to the Foreword

Replace the 5th paragraph:

"Annexes A and B are normative. Annexes C, D and E are informative."

with the following one:

"Annex A is normative. Annexes B, C, D and E are informative.".

In the final part "National Annex for EN1991-1-3", in the final list, in the 1st line of the numbering of subclauses, just after "1.1(2)", *add* "1.1(3)".

In the final part "National Annex for EN1991-1-3", in the final list, in the 4th line of the numbering of subclauses, just after "4.1(1)", *add* "4.1(2)".

In the final part "National Annex for EN1991-1-3", in the final list, in the 5th line of the numbering of subclauses, replace "5.2(1), 5.2(4), 5.2(5), 5.2(6), 5.2(7)," *with* "5.2(2), 5.2(5), 5.2(6), 5.2(7), 5.2(8), Table 5.2, 5.3.2(3),".

In the final part "National Annex for EN1991-1-3", in the final list, in the 5th line of the numbering of subclauses, after "5.3.4(3),", *add* "5.3.4(4),".

2 Modification to 1.2, Normative references

Delete the NOTE:

NOTE: The following European Standards, which are published or in preparation, are cited in normative clauses

EN 1991-2   Eurocode 1: Actions on structures
                                   Part 2: Traffic loads on bridges".

3 Modification to 5.3.1, General

At the end of 5.3.1(3), replace "in Figure 5.1." *with* "in Table 5.2.

Table 5.2 Snow load shape coefficients

Angle of pitch of roof α	$0° \leq \alpha \leq 30°$	$30° < \alpha < 60°$	$\alpha \geq 60°$
$\mu_1(\alpha)$	$\mu_1(0°) \geq 0{,}8$	$\mu_1(0°)\dfrac{(60° - \alpha)}{30°}$	$0{,}0$
$\mu_2(\alpha)$	$0{,}8$	$0{,}8\dfrac{(60° - \alpha)}{30°}$	$0{,}0$
$\mu_3(\alpha)$	$0{,}8 + 0{,}8\,\alpha/30$	$1{,}6$	--

NOTE: The National Annex may specify the value of $\mu_1(0°)$. The recommended value is $\mu_1(0°) = 0{,}8$.".

4 Modification to 5.3.2, Monopitch roofs

Paragraph 5.3.2(1), replace:

"(1) The snow load shape coefficient μ_1 that should be used for monopitch roofs is given in Table 5.2 and shown in Figure 5.1 and Figure 5.2."
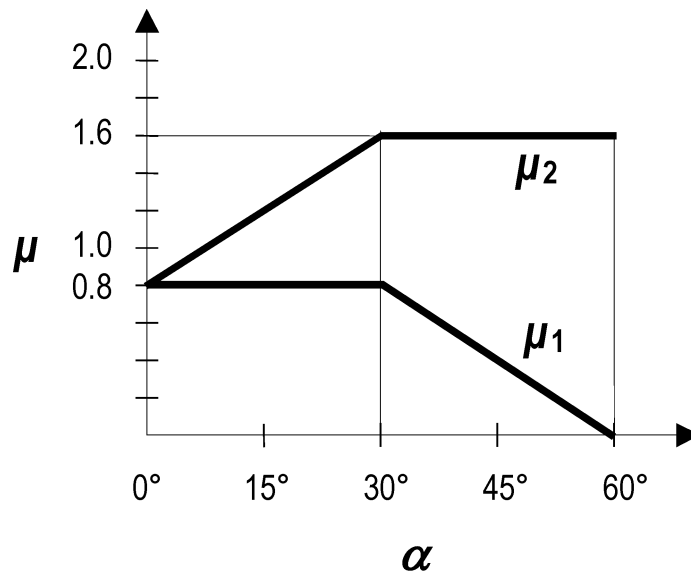
4

Figure 5.1: Snow load shape coefficients"

with:

"(1)   The snow load shape coefficient μ_1 that should be used for monopitch roofs is given in Table 5.2 and the relative load arrangement is shown in Figure 5.1.".

5   Modifications to 5.3.2, Monopitch roofs

After Paragraph 5.3.2(2), delete:

"   **Table 5.2:**   **Snow load shape coefficients**

Angle of pitch of roof α	$0° \leq \alpha \leq 30°$	$30° < \alpha < 60°$	$\alpha \geq 60°$
μ_1	0,8	$0,8(60 - \alpha)/30$	0,0
μ_2	$0,8 + 0,8\,\alpha/30$	1,6	--

".

In Paragraph 5.3.2(3), replace:

"(3) The load arrangement of Figure 5.2 should be used for both the undrifted and drifted load arrangements."

with:

"(3)   The load arrangement of Figure 5.1 should be used for both the undrifted and drifted load arrangements, unless specified for the drifted load arrangement for local/specific conditions.

NOTE: Based on local or specific conditions the National Annex may specify an alternative drifting load arrangement.".

In Paragraph 5.3.2(3), replace:
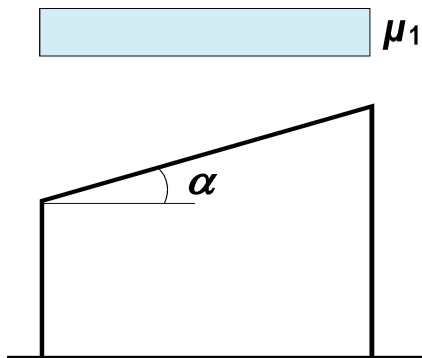
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"

Figure 5.2: Snow load shape coefficient - monopitch roof"

with:
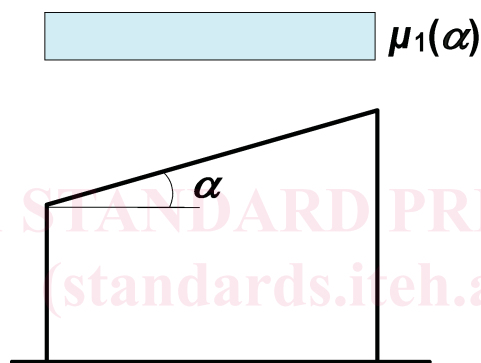
"

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Figure 5.1 — Snow load shape coefficient - monopitch roof".

6 Modifications to 5.3.3, Pitched roofs

In Paragraph 5.3.3(1), replace "given in Figure 5.3, where μ_1 is given in Table 5.2 and shown in Figure 5.1." *with* "given in Figure 5.2, where $\mu_2(\alpha)$ is given in Table 5.2.".
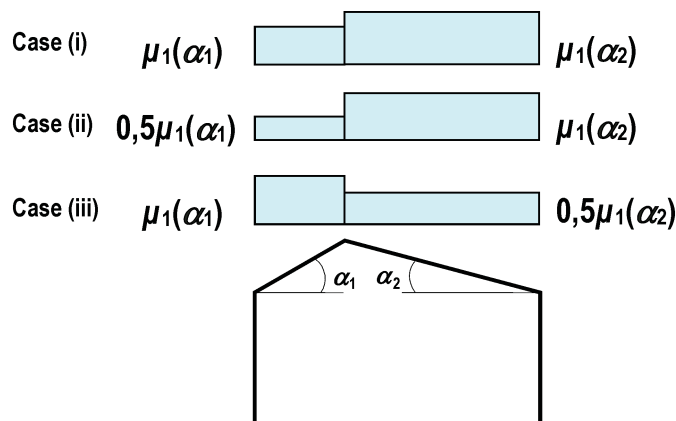
In Paragraph 5.3.3(2), replace:

"

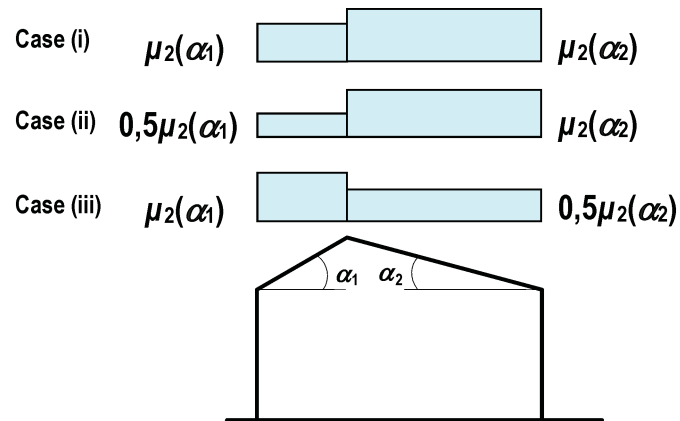**Figure 5.3 — Snow load shape coefficients - pitched roofs"**

with:

6

"

Figure 5.2 — Snow load shape coefficients - pitched roofs".

In Paragraph 5.3.3(3), replace "in Figure 5.3" *with* "in Figure 5.2".

In Paragraph 5.3.3(4), delete "in Figure 5.3" *with* "in Figure 5.2".

7   Modifications to 5.3.4, Multi-span roofs

In Paragraph 5.3.4(1), replace "in Figure 5.4" *with* "in Figure 5.3".

In Paragraph 5.3.4(2), replace "in Figure 5.4" *with* "in Figure 5.3".

In Paragraph 5.3.4(3), replace "in Figure 5.4" *with* "in Figure 5.3".
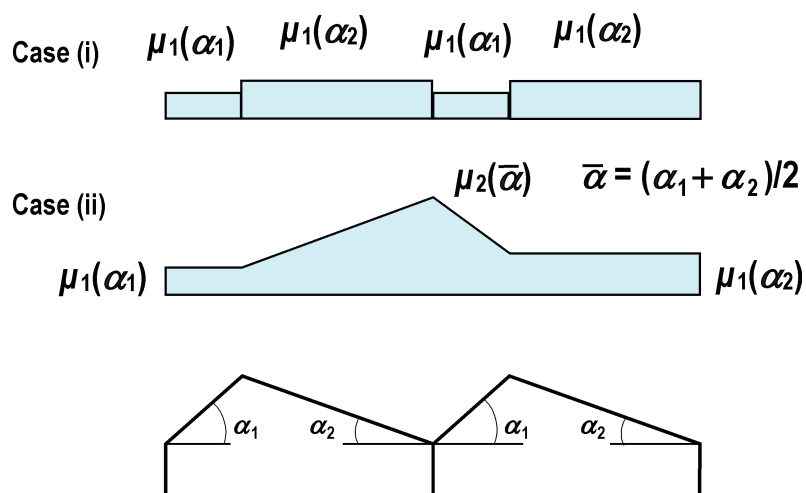
In Paragraph 5.3.4(3), replace:

"

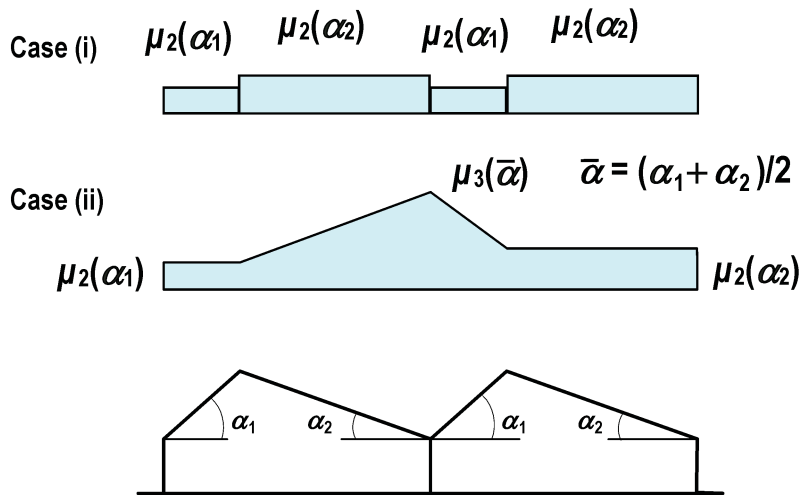**Figure 5.4: Snow load shape coefficients for multi-span roofs"**

with:

"

Figure 5.3: Snow load shape coefficients for multi-span roofs"*.

8   Modifications to 5.3.5, Cylindrical roofs

In Paragraph 5.3.5(1), replace:

"   For $\beta > 60°$, $\mu_3 = 0$ (5.4)"

with:

"   For $\beta > 60°$, $\mu_4 = 0$ (5.4)".

In Paragraph 5.3.5(1), replace:

"   For $\beta \leq 60°$, $\mu_3 = 0,2 + 10\ h/b$ (5.5)"

with:

"   For $\beta \leq 60°$, $\mu_4 = 0,2 + 10\ h/b$ (5.5)".

In Paragraph 5.3.5(1), replace:

"An upper value of μ_3 should be specified.

NOTE 1: The upper value of μ_3 may be specified in the National Annex. The recommended upper value for μ_3 is 2,0 (see Figure 5.5).
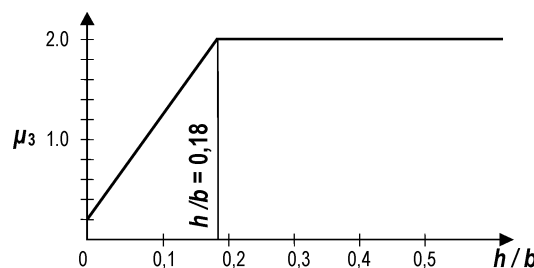

Figure 5.5: Recommended snow load shape coefficient for cylindrical roofs of differing rise to span ratios (for $\beta \leq 60°$)"

with:

"An upper value of μ_4 should be specified.

NOTE 1: The upper value of μ_4 may be specified in the National Annex. The recommended upper value for μ_4 is 2,0 (see Figure 5.4).