Introduction

Page 3
In the Content List, replace:
“5.3.2 Method A for assessing fire resistance of columns”
with the following:
“5.3.2 Method A ”

In the Content List, replace:
“5.3.3 Method B for assessing fire resistance of columns”
with the following:
“5.3.3 Method B ”

In the Content List, replace:
“5.4.1 Non load bearing walls (partitions)”
with the following:
“5.4.1 Non load bearing compartmentation walls”

Page 9
In Figure 1, replace:
“Simple Calculation Models”
with the following:
“Simplified Calculation Models”
(4 occurrences)

In Table 0.1 replace in 3rd row 1st column:
“Analysis of parts of the structure
Analysis of parts of the structure Indirect fire actions within the subassembly are considered…”
with the following:
“Analysis of part of the structure
Indirect fire actions within the subassembly are considered…”
SECTION 1 GENERAL

Page 11
In the clause 1.3 replace:
with the following:
“The general assumptions given in EN 1990 and EN 1992-1-1 apply.”

Page 12
In the clause 1.5.6 replace:
“…It is obtained from the residual cross section by removing parts of the…”
with the following:
“…It is obtained by removing parts of the…”

Page 13
In the clause 1.6.1 replace:
“t time of fire exposure (min)”
with the following:
“t time in fire exposure (min)”

SECTION 2 BASIS OF DESIGN

Page 14
In the clause 2.1.1(1)P replace:
“…during the relevant fire exposure.”
with the following:
“…during the required time of fire exposure.”

In the clause 2.1.1(2)P replace:
“…during the relevant fire exposure.”
with the following:
“…during the required time of fire exposure.”

In the clause 2.1.2(4) replace:
“With the external fire exposure curve the same criteria (R, E, I) should apply, however the reference to this specific curve should be identified by the letters "ef" (see EN 1991-1-2).”
with the following:
“With the external fire exposure curve (see EN 1991-1-2) the same criteria (R, E, I) should apply, however the reference to this specific curve should be identified by the letters "ef".

In the clause 2.1.2(5) replace:
“With the hydrocarbon fire exposure curve the same criteria (R, E, I) should apply, however the reference to this specific curve should be identified by the letters "HC", see EN 1991-1-2.” with the following:
“With the hydrocarbon fire exposure curve (see EN 1991-1-2) the same criteria (R, E, I) should apply, however the reference to this specific curve should be identified by the letters "HC".”

Page 15
Change clause 2.1.3(1):
“(1) The load bearing function should...” to a principle:
“(1)P The load bearing function shall...”

Page 16
In the clause 2.4.1(2)P replace:
“It shall be verified for the relevant duration of fire exposure $t$.” with the following:
“It shall be verified for the specified duration of fire exposure $t$.”

SECTION 3 MATERIAL PROPERTIES

Page 25
In the clause 3.2.4(1) replace:
“...properties of prestressing steel at elevated temperatures may be obtained by the same...” with the following:
“...properties of prestressing steel at elevated temperatures should be obtained by the same...”

Page 28
In the clause 3.4(1) replace:
“For $860^\circ C < \theta \leq 120^\circ C$” with the following:
“For $860^\circ C < \theta \leq 1200^\circ C$”

SECTION 4 DESIGN PROCEDURES

Page 31
In the clause 4.2.3(1) in the Note replace:
“…The method described in Annex B.2 is based on the principle that the fire damaged cross-section is reduced by ignoring a damaged zone at the fire-exposed surfaces.”
with the following:
“…The method described in Annex B.2 is based on the principle that cross-section is reduced by ignoring an ineffective zone at the fire-exposed surfaces.”

Page 34
In the clause 4.3.1(2)P replace:
“…(e.g. insufficient rotational capacity,...”
with the following:
“…(e.g. insufficient rotation capacity,...”

Page 35
In the clause 4.3.3(6) replace:
“…sub-assemblies..”
with the following:
“…parts of the structure...”
In the clause 4.3.3(9) replace:
“…sub-assemblies..”
with the following:
“…parts of the structure...”

Page 37
In the clause 4.6(4) replace:
“...(see 4.2)...”
with the following:
“...(see 5)...”

SECTION 5 TABULATED DATA

Page 42
In the clause 5.3.2(2) in the Note 1 replace:
“The value of $e_{max}$, within limits $0,15h \leq e_{max} \leq 0,4h$ (and $b$), ...The recommended value is $0,15h$ (and b).”
with the following:
“The value of $e_{max}$, within limits $0,15h \leq e_{max} \leq 0,4h$ (or $b$), ...The recommended value is $0,15h$ (or b).”

Page 43
In the clause 5.3.2(3) replace:
“A reduction factor for the design load level in the fire situation, $\mu_{fi}$, has been introduced.”

with the following:

“Degree of utilization in the fire situation, $\mu_{fi}$, has been introduced in Table 5.2a.”

In the clause 5.3.2(3) in Table 5.2a in the last row replace:

“For prestressed columns the increase of axis distance according to 4.2.2. (4) should be noted.”

with the following:

“For prestressed columns the increase of axis distance according to 5.2(5) should be noted.”

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**Page 46**

Change title of paragraph 5.4.1:

“5.4.1 Non load-bearing walls (partitions)”

with the following:

“5.4.1 Non load-bearing compartmentation walls”

In the clause 5.4.1(1) replace:

“Where the fire resistance of a partition…”

with the following:

“Where the fire resistance of a wall…”

In the clause 5.4.2(3) add the following note:

“Note: Ratio of clear height of wall to wall thickness is limited to 40 in 5.4.1 (3). Clear height of wall includes limitation that Tabulated data for walls is valid for braced structures only, see corresponding limitation for columns in 5.3.1.”

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**Page 47**

In the clause 5.4.2(3) change the title of Table 5.4:

“Table 5.4: Minimum dimensions and axis distances for load-bearing reinforced concrete walls”

with the following:

“Table 5.4: Minimum dimensions and axis distances for load-bearing concrete walls”

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**Page 48**

In the clause 5.6.1(5) replace:

“…of I-shaped beams with varying webs (Figure 5.4c) should not be less than:”

with the following:

“…of I-shaped beams (Figure 5.4c) should not be less than:”

In the clause 5.6.1(5) replace:

“where $b_{\text{min}}$ is the minimum value of beam width according to Table 5.7.”

with the following:

“where $b_{\text{min}}$ is the minimum value of beam width according to Table 5.5.”
Page 55
In the clause 5.7.3(2) replace:
"Table 5.8 and the following rules apply for slabs where the longitudinal moment redistribution…"
with the following:
"Table 5.8 and the following rules apply for slabs where the moment redistribution…"

Page 56
In the clause 5.7.4(1) replace:
"…according to Section 2 of EN 1992-1-1,…"
with the following:
"…according to Section 5 of EN 1992-1-1,…"

Page 57
In the clause 5.7.5(7) in Table 5.10 and in Table 5.11 replace:
“For prestressed ribbed slabs, the axis-distance a should be increased in accordance with 5.2(4).”
with the following:
“For prestressed ribbed slabs, the axis-distance a should be increased in accordance with 5.2(5).”

SECTION 6 HIGH STRENGTH CONCRETE

Page 59
In the clause 6.2(2) replace:
“For concrete grades 80/95 < C ≤ 90/105 spalling can occur in any situation for concrete exposed directly to
the fire and at least one of the following methods should be provided:”
with the following:
“For concrete grades 80/95 < C ≤ 90/105 at least one of the following methods should be provided:”

Page 60
In the clause 6.4.2.1(2) replace:
“…fire damaged concrete..”
with the following:
“…ineffective concrete…”

In the clause 6.4.2.1(3) replace:
“…effective cross section..”
with the following:
“…reduced cross section…”

Page 61
In the clause 6.4.2.2(1) replace:
“…effective cross section..”
with the following:
“…reduced cross section…”

In the clause 6.4.2.2(2) replace:
“…effective cross section…”
with the following:
“…reduced cross section…”

ANNEX A TEMPERATURE PROFILES

Page 63
In the clause (2) replace:
“ - Convection factor is 25”
with the following:
“ - Convection factor is 25 W/m\(^2\)K”

ANNEX B SIMPLIFIED CALCULATION METHODS

Page 72
In the clause B.1.1(5) replace:
“…effective cross section…”
with the following:
“…reduced cross section…”

Page 74
In the clause B.1.2(2) replace:
“…effective cross section…”
with the following:
“…reduced cross section…”
(2 occurrences)

In the clause B.1.2(2) in Figure B.2 replace:
“ \(F\) is the total force in compressed reinforcement in the fire situation, and is equal to part of the total force in the tensed reinforcement”

with the following:
“ \(F_s\) is the total force in compressed reinforcement in the fire situation, and it is equal to part of the total force in the tensed reinforcement”

Page 75
In the clause B.1.2(3) replace:
“…in calculating the axis distance, \(a\) (see Figure B.2).”
with the following:
“...in calculating the axis distance, a.”

In the clause **B.1.2(4)** replace:
“The axis distance, a, from bottom surface of the effective cross-section to the centroid of the reinforcement layers may be calculated using Expression (B.2).”
with the following:
“The axis distance, a, to the centroid of the reinforcement layers may be calculated using Expression (B.2).”

In the clause **B.1.2(4)** replace:
“... $a_\nu$ is the axis distance from the bottom surface of the effective cross-section to reinforcement layer $\nu$”
with the following:
“... $a_\nu$ is the axis distance from the bottom surface of the reduced cross-section to reinforcement layer $\nu$”

In the clause **B.1.2(6)** replace:
“If the reinforcement bars have different areas and are distributed arbitrary the following procedure must be used.”
with the following:
“If the reinforcement bars have different areas and are distributed arbitrary the following procedure should be used.”

In the clause **B.1.2(6)** replace:
“The axis distance, $a_\nu$ (see Figure B.2), from the effective cross-section to the centroid of the reinforcement group is calculated in accordance with Expression (B.5).”
with the following:
“The axis distance, $a$ to the centroid of the reinforcement group is calculated in accordance with Expression (B.5).”

**Page 76**
In the clause **B.1.2(6)** replace:
“$a_i$ is the axis distance from effective cross-section to reinforcement bar i”
with the following:
“$a_i$ is the axis distance from reduced cross-section to reinforcement bar i”

In the clause **B.2(1)** replace:
“The method is applicable to the standard temperature-time curve only.”
with the following:
“The method is applicable to any fully developed fire curve, but data are only provided in this code for the standard temperature-time curve.”

In the clause **B.2(3)** replace:
“...(see Figure B.3 (c)). This is represented by a wall with a width equal to 2w (see Figure B.3 (d)). The flange of Figure B.3 (f) is related to the equivalent wall in Figure B.3 (d), and the web to the equivalent wall in Figure B.3 (a).”

with the following:
“...(see Figure B.3 (c)). A thick wall is represented by a wall with a width equal to 2w (see Figure B.3 (d)). The flange of Figure B.3 (f) is related to the equivalent slab in Figure B.3 (c), and the web to the equivalent wall in Figure B.3 (a).”

**Page 78**

In the clause **B.2(7)** replace:
“The width of the damaged zone for beams, slabs or members in plane shear may be calculated...”
with the following:
“The width of the damaged zone for beams, slabs or plates may be calculated...”

In the clause **B.2(8)** replace:
“ For columns, walls and other constructions where second order effects may be calculated using Expression (B.13).”
with the following:
“ For columns, walls and other constructions, where second order effects take place, the width of the damaged zone may be calculated using Expression (B.13).”

**Page 80**

In the clause **B.3.1(3)** replace:
“...(see section 5 of EN 1992-1) if...”
with the following:
“...(see section 5 of EN 1992-1-1) if...”

In the clause **B.3.1(5)** replace:
“...For a more accurate estimation the increase of the relative reaction at the ends of the column, due to the decrease of its stiffness...”
with the following:
“...For a more accurate estimation the increase of the relative restraint at the ends of the column, due to the decrease of its stiffness...”

**ANNEX D CALCULATION METHODS FOR SHEAR, TORSION AND ANCHORAGE**

**Page 92**

In the clause **D.1(3)** replace:
“...the actual shear behaviour of the concrete at elevated temperatures must be considered.”
with the following:
“…the actual shear behaviour of the concrete at elevated temperatures needs to be considered.”

**Page 94**
In the clause **D.3(7)** in the caption of Figure D.2 replace:
“…EN 1992-1…”
with the following:
“…EN 1992-1-1…”