

**NATIONAL ANNEX  
TO STANDARD  
SFS-EN 1992-3 EUROCODE 2: DESIGN OF CONCRETE STRUCTURES  
Part 3: Liquid retaining and containment structures**

**Foreword**

This National Annex is used together with the standard SFS-EN 1992-3:2006

This National Annex sets out

a) the national parameters for the following paragraphs in standard SFS-EN 1992-3 where national selection is permitted:

7.3.1 (111)

7.3.1 (112)

7.3.3 (Figures 7.103N and 7.104N)

8.10.1.3 (102) and (103)

9.11.1 (102)

b) Guidance for the use of the informative Annexes K, L, M and N.

### 7.3.1 General considerations

(111)

The recommended values are used for limiting values of crack width  $w_{k1}$ .

*Guidance: Examples of structures in different Tightness Classes:*

Tightness Class 1: small water towers, swimming pools

Tightness Class 2: water towers where aesthetically disturbing leakage is not allowed.

Tightness Class 3: big water towers, reservoirs and tanks containing harmful substances (as at dumping places).

*Note:*

*In the English standard there is a misspelling in the sentence dealing with the tightness class 2. In the parenthesis "water bars" should be "water barriers".*

(112)

For the depth of the compression zone  $x_{min}$  the recommended values may be used.

### 7.3.3 Control of cracking without direct calculation

*Comment:*

*Figures 7.103N and 7.104N can be used as such.*

### 8.10.1.3 Post-tensioning ducts

*Comment:*

*This paragraph does not include any national choice, although so wrongly is stated in chapter "National Annex for EN 1992-3" of the English standard.*

(103)

For factor  $\kappa$  the recommended value  $\kappa = 0,25$  is used.

### 9.11.1 Minimum area of passive reinforcement and cross-sectional dimensions

(102)

The thickness of walls forming the sides of reservoirs or tanks should generally not be less than 120 mm for class 0 and 200 mm for classes 1 or 2. Slipformed walls should always be thicker than 200 mm whatever the class and the holes left by the lifting rods should be filled with a suitable grout.

**Annex K****Effect of temperature on the properties of concrete**

The informative annex K may be used. Chapter K.2 may be used in design situation where the temperature of the construction permanently lays between -25 ... -40 °C.

**Annex L****Calculation of strains and stresses in concrete sections subjected to restrained imposed deformations**

The informative annex L may be used.

**Annex M****Calculation of crack widths due to restraint of imposed deformations**

The informative annex M may be used.

**Annex N****Provision of movement joints**

The informative annex N may be used.