ANNEX 29

NATIONAL ANNEX TO

STANDARD

SFS-EN 1993-4-3 EUROCODE 3: DESIGN OF STEEL STRUCTURES

Part 4-3: Pipelines

Foreword

This National Annex is used together with Standard SFS-EN 1993-4-3 + AC.

This National Annex sets out:

a) National parameters for the following paragraphs in Standard SFS-EN 1993-4-3 + AC where national choice is permitted:

2.3 (2)

3.2(1)P

3.2 (2)P, (3), (4)

3.3 (2), (3), (4)

3.4 (3)

4.2 (1)P

5.1.1 (2), (3), (4), (5), (6), (9), (10), (11), (12), (13)

5.2.3 (2)

5.2.4 (1).

b) Guidance on the use of Informative Annexes A, B and C.

2.3 Reliability differentation

2.3(2)
The minimum reliability should be chosen according to National Annex for standard SFS-EN 1990 or standard SFS-EN 1997-1 depending on the case. National Annex to standard SFS-EN 1990 should be applied, when pipelines are above the ground level. National Annex to standard SFS-EN 1997-1 should be applied, when pipelines are not above the ground level.

3.2 Mechanical properties of pipeline steels

3.2(1)P
The recommended value should be used.

3.2(2)P
The recommended value should be used.

3.2(3)
The recommended value should be used.

3.2(4)
The recommended value should be used.

3.3 Mechanical properties of welds

3.3(2)
The recommended value should be used.

3.3(3)
The recommended value should be used.

3.3(4)
The recommended value should be used.

3.4 Toughness requirements of plate materials and welds

3.4(3)
The recommended value should be used.

4.2 Partial factors for actions

4.2(1)P
The values and load combinations given in the National Annex for standard SFS-EN 1990 or SFS-EN 1997-1 should be used depending on the case. National Annex to standard SFS-EN 1990 should be applied, when pipelines are above the ground level. National Annex to standard SFS-EN 1997-1 should be applied, when pipelines are not above the ground level.

5.1.1 Simplified calculation model for ultimate limit state design

5.1.1(2)
The values given in the National Annex for standard SFS-EN 1990 or standard SFS-EN 1997-1 should be used depending on the case. National Annex to standard SFS-EN 1990 should be applied, when pipelines are above the ground level. National Annex to standard SFS-EN 1997-1 should be applied, when pipelines are not above the ground level.

5.1.1(3)
The recommended values should be used.

5.1.1(4)
The recommended values should be used, if local conditions do not require values, which are more determining.

5.1.1(5)
The recommended value should be used, if local conditions do not require greater value.

5.1.1(6)
The recommended values should be used, if local conditions do not require values, which are more determining.

5.1.1(9)
The recommended value should be used.

5.1.1(10)
The recommended value should be used, if local conditions do not require other value to be used.

5.1.1(11)
The recommended values should be used, if local conditions do not require other values to be used.

5.1.1(12)
The recommended values should be used, if local conditions do not require other values to be used.

5.1.1(13)
The values given in the National Annex for standard SFS- EN 1990 or SFS- EN 1997-1 should be used for partial factor γ_F. depending on the case. National Annex to standard SFS-EN 1990 should be applied, when pipelines are above the ground level. National Annex to standard SFS-EN 1997-1 should be applied, when pipelines are not above the ground level. For other values above the recommended values should be used.

5.2.3 LS3: Deformation

5.2.3(2)
The recommended value should be used.

5.2.4 LS4: Fatique

5.2.4(1)
Other standards for fatigue load are not given in the National Annex.

Annex A
Analysis of resistances, deformations, stresses and strains of buried pipelines

Annex A may be used.

Annex B
Bibliography to National Standards and to design quides

Annex B may be used in individual projects, but Annex B is not a part of National Annex.

Annex C
Bibliography

Annex C may be used in individual projects, but Annex C is not a part of National Annex.