

ANNEX 26

NATIONAL ANNEX
TO
SFS-EN 1997-2 EUROCODE 7: GEOTECHNICAL DESIGN
Part 2 – Ground survey and testing

This national annex is used together with Standard SFS-EN 1997-2:2007

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NATIONAL ANNEX TO STANDARD

SFS-EN 1997-2:2007 GEOTECHNICAL DESIGN – PART 2 GROUND INVESTIGATION AND TESTING

1. Preface

This National Annex shall be used together with Standard SFS-EN 1997-2:2007. National choices in the Annex concern house building works and also associated excavation works and other foundation construction works.

Standard SFS-EN 1997-2:2007 includes:

- detailed rules concerning ground investigations,
- general specifications concerning testing (determinations),
- derivation procedures for soil characteristics and geotechnical model at building site,
- examples of calculation methods based on field and laboratory tests.

National choices may be made regarding the use of the publications of CEN ISO/Technical Specifications (CEN ISO/TS) and the informative annexes set out in Standard SFS-EN 1997-2:2007.

2. National choices

In several paragraphs, Standard SFS-EN 1997-2:2007 refers to the publications of CEN ISO/Technical Specifications (CEN ISO/TS) used as supplementary material. The choices concerning the use of the said publications are set out in Table 1 of this National Annex.

Standard SFS-EN 1997-2:2007 is accompanied by 24 informative annexes. The choices concerning the use of the said annexes are set out in Table 2 of this National Annex.

Some of the CEN ISO/TS publications and informative annexes (or of their parts) may be approved for use as such. Whereas some of the said publications and annexes remain informative until they become Standards and are published. Informative publications and annexes may be used in Finland, as applicable, provided that the Finnish application rules, prepared for them, are taken into consideration. Guideline publications used in Finland and their application rules are set out in the publication: **SFS Handbook 179-2 Geotechnical investigation and testing. Laboratory investigations of soil 2008.**

TABLE 1. **National Annex to SFS-EN 1997-2**
Use of CEN ISO/TS publications in Finland

Item/CEN ISO/TS	Adopted as such	National rule to be used or application rule for the adopted TS publication
4.8.1(2)P, Note, CEN ISO/TS 22476-10:2004 (Weight sounding)	Yes	
4.10.1(4), Note, CEN ISO/TS 22476-11:2004 (Flat dilatometer)	Yes	
5.5.3.1(3), Note, CEN ISO/TS 17892-1:2004 (Determination of water content)	Yes	
5.5.4.1(3)P, Note, CEN ISO/TS 17892-2:2004 (Determination of volume weight)	Yes	
5.5.5.1(2)P, Note, CEN ISO/TS 17892-3:2004 (Determination of solid density)	No	SFS Handbook 179-2. 2008
5.5.6.1(1), Note, CEN ISO/TS 17892-4:2004 (Grain size analysis)	No	SFS Handbook 179-2. 2008
5.5.7.1(5), Note, CEN ISO/TS 17892-12:2004 (Determination of consistency limits)	No	SFS Handbook 179-2. 2008
5.7.2(1)P, Note, CEN ISO/TS 17892-6:2004 (Strength index tests of soil)	No	SFS Handbook 179-2. 2008
5.8.4.1(2), Note, CEN ISO/TS 17892-7:2004 (Unconfined compression test)	Yes	Note: Does not apply to stabilised soil.
5.8.5.1(3)P, Note, CEN ISO/TS 17892-8:2004 (Unconsolidated closed triaxial test)	Yes	
5.8.6.1(1)P, Note, CEN ISO/TS 17892-9:2004 (Consolidated triaxial compression test)	No	SFS Handbook 179-2. 2008
5.8.7.1(1)P, Note, CEN ISO/TS 17892-10:2004 (Consolidated direct box shear test)	Yes	
5.9.2.2(7)P, Notes, CEN ISO/TS 17892-5:2004 (Oedometer test)	No	SFS Handbook 179-2. 2008
5.11.2(1)P and 8, Notes, CEN ISO/TS 17892-11: 2004 (Water permeability test)	No	SFS Handbook 179-2. 2008
5.12.5.1(4), Note, Annexes U.4 and X.4.9.3 (Determination of density and porosity)	Yes	
5.12.5.2(3), Note, CEN ISO/TS 17892-3:2004 (Determination of density and porosity)	Yes	

TABLE 2. **National Annex to SFS-EN 1997-2**
Use of informative annexes in Finland

Annex/subject	Adopted as such	National rule to be used or application rule for the adopted Annex SFS-EN 1997-2
A List of investigation results of geotechnical test standards	Yes	
B Planning of geotechnical investigations: - B.1 Stages of ground investigations - B.2 Choice of ground investigation methods	Yes Yes	Geophysical methods other than seismic sounding, may also be approved for use.
- B.3 The spacings for survey points and the survey depths	Yes	When determining the spacings for survey points and the survey depths, the small scale of geological formations in Finland is taken into account.
C An example of derivation of groundwater pressure on the basis of a model and long-term observations	Yes	
D CPT and CPTU tests	Yes	
E Pressometer test	Yes	
F SPT drilling	Yes	
G Ram drilling	Yes	
H Weight sounding	Yes	
I Vane auger	Yes	
J Dilatometer test DMT	Yes	
K Plate loading test	Yes	
L Preparation of soil sample for testing	Yes	
M.1 Check list for classification tests	Yes	
M.2 Determination of water content	Yes	
M.3 Determination of volume weight	Yes	
M.4 Determination of solid density	No	SFS Handbook 179-2. 2008
M.5 Grain size analysis	No	SFS Handbook 179-2. 2008
M.6 Determination of relative density	Yes	
M.7 Determination of dispersion of soil type	Yes	
M.8 Determination of frost susceptibility	Yes	

TABLE 2 continued

Annex/subject	Adopted as such	National rule to be used or application rule for the adopted Annex SFS-EN 1997-2
N Soil chemical tests	Yes	
O Strength index tests of soil	No	SFS Handbook 179-2. 2008
P Strength tests of soil: - triaxial compression tests - consolidated direct box shear tests	No Yes	SFS Handbook 179-2. 2008
Q Compressibility tests of soil (oedometer test)	No	SFS Handbook 179-2. 2008
R Compaction tests of soil	Yes	
S Water permeability tests of soil	No	SFS Handbook 179-2. 2008
T Preparation of rock samples	Yes	
U Classification tests of rock material	Yes	
V Expansion tests of rock material	Yes	
W Strength tests of rock material	Yes	
X Literature	Informative use	