



**SLOVENSKI STANDARD**  
**SIST ETS 300 019-1-4 E1:2006**

**01-februar-2006**

ITih STANDARD PREVIEW  
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Equipment Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Part 1-4: Classification of environmental conditions; Stationary use at non-weatherprotected locations

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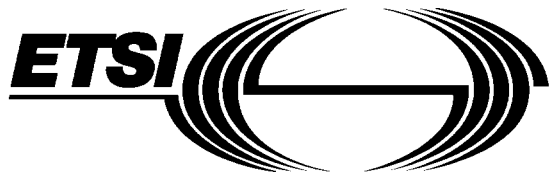
19.040	Preskušanje v zvezi z okoljem	Environmental testing
33.050.01	Telekomunikacijska terminalska oprema na splošno	Telecommunication terminal equipment in general

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Stationary use at non-weatherprotected locations**

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## Contents

Foreword .....	5
1 Scope .....	7
2 Normative references .....	7
3 Definitions.....	7
4 Environmental class.....	7
4.1 Class 4.1: Non-weatherprotected locations .....	7
Class 4.1E: Non-weatherprotected locations - extended.....	7
5 Environmental conditions.....	9
5.1 Climatic conditions.....	9
5.2 Biological conditions .....	11
5.3 Chemically active substances .....	11
5.4 Mechanically active substances.....	12
5.5 Mechanical conditions.....	13
Annex A (informative): .....	14
History .....	15

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## Foreword

This multi-part European Telecommunication Standard (ETS) has been produced by the Equipment Engineering (EE) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This standard is concerned with environmental conditions and environmental tests for telecommunications equipment and comprises two main parts, each with subdivisions:

- ETS 300 019-1: "Classification of environmental conditions".

This part of the standard, Part 1, specifies different standardised environmental classes covering climatic and biological conditions, chemically and mechanically active substances and mechanical conditions during storage, transportation and in use.

- ETS 300 019-2: "Specification of environmental tests".

This part of the standard specifies the test requirements for the different environmental classes.

Each part of the standard is divided into sub-parts. Sub-part 1-0 will form a general overview of Part 1. This sub-part, Sub-part 1-4, deals with stationary use at non-weatherprotected locations.

This part of the standard (Part 1) was submitted to Public Enquiry as prETS 300 019 Part B. The original Part A is to be published as ETSI Technical Report ETR 035 entitled: "Equipment Engineering (EE); Environmental engineering Guidance and terminology".

Annex A to this sub-part is informative.

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## 1 Scope

The purpose of this sub-part is to define a class of environmental conditions and their severities to which equipment may be exposed. Only severe conditions, which may be harmful to the equipment, are included. The severities specified are those which will have a low probability of being exceeded; generally less than 1 %.

For completeness the IEC grouping of open-air climates is given in Annex A.

This sub-part applies to equipment mounted for stationary use including periods of erection work, down time, maintenance and repair at non-weatherprotected locations defined in Clause 5.

## 2 Normative references

This ETS contains, by dated or undated reference, provisions from other publications. For dated references, subsequent amendments to, or revisions of any of these publications apply to this document only when incorporated into it by amendment or revision. For undated references, the latest version of the publication referred to applies.

- [1] ETR 035: "Equipment Engineering (EE); Environmental engineering Guidance and terminology".
- [2] IEC Publication 721-3-4: "Stationary use at non-weatherprotected locations".
- [3] IEC Publication 721-2-4: "Solar radiation and temperature".
- [4] IEC Publication 721-2-1: "Temperature and humidity".
- [5] IEC Publication 68-2-27: "Test Ea: Shock".

## 3 Definitions

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In this sub-part of this standard, the following definitions apply:

**Stationary use:** The equipment is mounted firmly on the structure, or on mounting devices, or it is permanently placed at a certain site. It is not intended for portable use - but short periods of handling during erection works, down time, maintenance and repair at the location are included.

**Non-weatherprotected location:** A location at which the equipment is not protected from direct weather influences.

## 4 Environmental class

The classes shown in parentheses, e.g. (4C3), may be selected for special applications.

### 4.1 Class 4.1: Non-weatherprotected locations

#### Class 4.1E: Non-weatherprotected locations - extended

Class 4.1 applies to many ETSI countries. Class 4.1 E covers all ETSI countries.

Class 4.1 is a combination of classes 4K2/4Z5/4Z7/4B1/4C2(4C3)/4S2/4M5 in IEC Publication 721-3-4 [2]. Class 4.1E is a combination of classes 4Z5/4Z7/4B1/4C2(4C3)/4S2/4M5 in IEC Publication 721-3-4 [2] and the climatic conditions are given in subclause 5.1.

This class applies to a non-weatherprotected location. The climatogram is shown in figure 1 in subclause 5.1.