

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Classification of environmental conditions –
Part 2-6: Environmental conditions appearing in nature – Earthquake vibration
and shock**

**Classification des conditions d'environnement –
Partie 2-6: Conditions d'environnement présentes dans la nature – Vibrations et
chocs sismiques**





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CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	6
4 General description of earthquake	6
4.1 General.....	6
4.2 Earthquake origin and propagation	7
4.3 Earthquake behaviour	7
4.4 Products on foundations	7
4.5 Products in buildings and structures	7
5 Seismic scales.....	7
5.1 Definition of intensity and magnitude	7
5.2 Examples of intensity scales	8
5.3 Example of magnitude scale	9
6 Description of the seismic environment by response spectra	10
6.1 Response spectrum	10
6.2 Ground response spectrum	10
6.3 Required response spectrum	11
7 Seismic activity zone classification	11
Annex A (informative) Example of seismic activity zones	16
A.1 Classification criteria of US Uniform Building Code	16
A.2 World seismic activity zones classification according to UBC	16
Bibliography.....	25
Figure 1 – Acceleration record of the Irpinia-Basilicata-Italy earthquake (1980)	12
Figure 2 – Model for composing a response spectrum.....	13
Figure 3 – Response spectrum of the Calitri record of Irpinia earthquake (1980) (Figure 1) for 2 % damping ratio value	14
Figure 4 – Example of required response spectrum for ground motion	15
Table 1 – Earthquake intensity scales for some countries/regions.....	8
Table 2 – European Macroseismic Scale (EMS-98).....	9
Table 3 – Moment Magnitude Scale	10
Table 4 – Seismic activity zones	11
Table A.1 – Seismic activity zones definition according to UBC.....	16
Table A.2 – Seismic activity zones classification according to UBC.....	16

INTERNATIONAL ELECTROTECHNICAL COMMISSION

CLASSIFICATION OF ENVIRONMENTAL CONDITIONS –**Part 2-6: Environmental conditions appearing in nature –
Earthquake vibration and shock**

FOREWORD

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IEC 60721-2-6 has been prepared by IEC technical committee 104: Environmental conditions, classification and methods of test. It is an International Standard.

This second edition cancels and replaces the first edition published in 1990. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the main aim of this revision is to classify in a limited number of classes the seismic activity level of the zone where the equipment could be installed;
- b) the correlation between intensity scales, magnitude scales and peak ground acceleration is deleted due to the scientific uncertainty to define such a correlation in a rigorous way;
- c) updated scales are given both for intensity and for magnitude;

- d) the earthquake zone map, which was not usable in practice, is replaced by an annex giving information about how to retrieve consistent peak ground acceleration distribution all over the world;
- e) with regard to identification of the peak ground seismic acceleration of the zone, where the equipment could be installed, the user is made aware that national standards and laws can apply.

The text of this International Standard is based on the following documents:

Draft	Report on voting
104/946/FDIS	104/952/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

A list of all parts in the IEC 60721 series, published under the general title *Classification of environmental conditions*, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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INTRODUCTION

This part of IEC 60721 is one of a series dealing with the following subjects:

- environmental parameters and their severities (IEC 60721-1);
- environmental conditions appearing in nature (IEC 60721-2);
- classification of groups of environmental parameters and their severities (IEC 60721-3).

This part of IEC 60721 is intended to be used as background material when selecting appropriate severities of parameters relating to earthquakes for product application. Severities given in IEC 60721-1 [1]¹ should be applied.

More detailed information can be obtained from specialist documentation and from technical literature, some of which is given in the bibliography.

¹ Numbers in square brackets refer to the Bibliography.