INTERNATIONAL STANDARD

ISO 4190-5

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Lift (Elevator) installation —

Part 5: Control devices, signals and additional fittings

Installation d'ascenseurs —

Partie 5: Dispositifs de commande et de signalisation et accessoires complémentaires

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4190-5 was prepared by Technical Committee ISO/TC 178, *Lifts, escalators and moving walks*.

This third edition cancels and replaces the second edition (ISO 4190-5:1987), which has been technically revised.

ISO 4190 consists of the following parts, under the general title *Lift (Elevator) installation*[1)]*:*

— *Part 1: Class I, II, III and VI lifts*

— *Part 2: Class IV lifts*

— *Part 3: Service lifts class V*

— *Part 5: Control devices, signals and additional fittings*

— *Part 6: Passenger lifts to be installed in residential buildings — Planning and selection*

1) The title, which differs in various respects in the other, previously published, parts, is to form the subject of a Technical Corrigendum for each of the parts concerned.

Introduction

This third edition of ISO 4190-5 takes into account the latest studies concerning ergonomics and the needs of various people with disabilities.

Many regional disabled people's associations were associated with this work and were in agreement with these new concepts. A general consensus had been obtained on the data recorded in this part of ISO 4190.

However, due to existing regulations and, in particular, local habits, in some countries it could be difficult to introduce a part of these specifications without certain precautions being taken (for example, modification of a well-known symbol).

Concerning provisions expressed in terms of values (dimensions, sound level, etc.), this part of ISO 4190 often gives two ranges of values: a general range, followed by a recommended range. The range of recommended values is intended as the target to be reached, as far as is possible, in each country.

Lift (Elevator) installation —

Part 5:
Control devices, signals and additional fittings

1 Scope

This part of ISO 4190 specifies the control devices, buttons and indicators to be provided when a lift (US: elevator) is constructed and installed, taking into account the type of control intended for the lift and also ensuring the ease of access for disabled persons (motor and/or sensory). Annex B gives particular requirements for access. The description of the controls is given only in order to define the buttons and indicators. It does not constitute a complete description of these controls nor does it attempt to standardize them.

This part of ISO 4190 also specifies the requirements for handrails when provided in the car.

It is applicable to lifts of classes I to IV and VI as defined in ISO 4190-1 and ISO 4190-2.

Group collective lifts have common controls and are electrically interconnected so as to provide a better service and for reasons of economy. The system can be more or less complex according to the number of lifts and the expected traffic. Consequently, this part of ISO 4190 does not deal with supplementary signals which the manufacturer may consider useful (e.g. “next car, stand clear of the doors”).

The following are not dealt with in this part of ISO 4190:

a) special features (and their corresponding signals), such as certain features for improving the service of bed lifts, touch screens or voice activators;

b) any devices for speeding the traffic in the case of automatic doors (variable time delays according to different criteria, closing button, light ray, etc.).

The requirements of this part of ISO 4190 are intended to be followed in all cases where the controls and the basic signals are concerned, and can also be used as a guide in developing supplementary signals.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4190-1, *Lift (Elevator) installation — Part 1: Class I, II, III and VI lifts*

ISO 4190-2, *Lift (Elevator) installation — Part 2: Class IV lifts*