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# Lifts for the transport of persons and goods —

## Part 33: T-type guide rails for lift cars and counterweights

*Ascenseurs et monte-charges pour le transport des personnes et des marchandises —*

*Partie 33: Guides à profil en T des cabines et contrepoids*



Reference number  
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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 178, *Lifts, escalators and moving walks*.

This first edition of ISO 8100-33 cancels and replaces the fourth edition of ISO 7465:2007, which has been technically revised.

The main changes are as follows:

- in [Clause 5](#) and Bibliography, the reference to ISO 630:1995 is updated with ISO 630-2:2021;
- in [Clause 5](#), steel grades detailed in Table 2, GR235 and GR275, shall be used for the raw material of guide rails;
- [Figures 2](#) and [3](#), and [Tables 6](#) and [8](#) include the minimum distance between the spot-facing and the surface in contact with the fishplate; this parameter affects only to guide rails with inclined foot flange where spot-facing is manufactured;
- some non-preferred rail types have become preferred types in [Tables 5](#), [6](#), [7](#) and [8](#) (T90/A, T75/B, T78/B, T90/B, T114/B, T127-1B or BE);
- in [Table 7](#), the second moment of area related to the X-axis of T127-2/B,  $I_x$  is corrected; it was 201,7 cm<sup>4</sup> and it is 200,17 cm<sup>4</sup>;
- in [Table 7](#), the radius of gyration of T127-1/B is corrected; it was  $i_x = 3,065$  cm and  $i_y = 2,361$  cm and it is  $i_x = 2,875$  cm and  $i_y = 2,567$  cm;
- in [Table 8](#), the dimension  $g$  of T125/B or BE has been corrected; it was 8 mm and it is 9 mm;
- in [6.2.8](#), the length of short waves is corrected from 500 mm to 1 000 mm;
- in [Table 10](#), the values of the tolerances  $t_{10}$  and  $t_{18}$  are shifted.
- in [Table 10](#) and [Figure 5](#), tolerance for the parallelism between the top of the blade and the surface in contact with the fishplate  $t_{19}$  is added;

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- in [Figure 5](#), the envelope requirements for the base machining height at the guide rail ends are removed;
- in [7.1](#), the sentence, which obliges to have a specific tensile strength on the fishplate that depends on the tensile strength of the guide rail, is deleted.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).