

# Elbasen

**Guide to  
electrical  
installations  
Edition 4**





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## Guide to electrical installations

SEK Svensk Elstandard is a non-profit organization responsible for the Swedish electrotechnical standardization and coordinates the Swedish participation in global and European standardization as the Swedish national committee of IEC and CENELEC. See also [elstandard.se](http://elstandard.se).

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## Foreword to the English edition of Elbasen

The name Elbasen is a pun in Swedish. It can mean three different things. The most obvious is “the electric bass”. Another meaning is “the base on which electricity relies” and finally it can mean “the boss of a team of electricians”.

In this publication the international practice with decimal commas is used throughout instead of decimal points. The reason being that this English version of Elbasen is produced for all non-Swedish speakers who understand English and not only for native English speakers.

### Foreword

Elbasen is intended for people undertaking minor electrical installation work in homes, offices and in trade and commercial premises, where it is neither reasonable nor necessary to carry out advanced calculations. Consequently, Elbasen is simplified and does not take account of all the possibilities offered by the technical solutions set out in Swedish standards. The simplifications of the rules allow a generous safety margin. Elbasen has also been designed to ensure that the electrical installation will be functional and fit for its purpose from the user’s point of view, with good electrical safety.

The idea behind Elbasen is to offer a practical application of the rules under the “system approach”, with brief overall regulations and more detailed installation standards. The guidelines in Elbasen are mainly based on the Wiring Rules (Swedish standard SS 436 40 00 – Rules for Design and Erection of Electrical Installations) and SS 437 01 02 (Swedish standard – Guidelines for connection, location, metering and erection of electrical and telecommunication installations).

Elbasen consists primarily of edited extracts from the electrical installation standards and guidebooks listed in the bibliography at the end of this publication. Texts that originate from standards are indicated by a thin grey line in the inside margin (|).

Elbasen will be kept up to date by new editions in line with revisions to the installation standards on which it is based. Comments, suggestions for improvements and questions about the content may be sent to SEK Svensk Elstandard.

We hope you will find Elbasen useful and helpful in your work.