

---

---

**Prostheses and orthoses — Factors to be  
considered when specifying a prosthesis  
for a person who has had a lower limb  
amputation**

*Prothèses et orthèses — Facteurs à prendre en considération lors de la  
spécification d'une prothèse pour une personne ayant subi une  
amputation d'un membre inférieur*



**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

This document is a preview generated by EVS



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

## 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 29782 was prepared by Technical Committee ISO/TC 168, *Prosthetics and orthotics*.

## Introduction

The selection of components to be used in a prosthesis for a person should take account of their amputation level, stump and general physical characteristics, general clinical condition, functional capabilities, motivation and needs, anticipated activities and social and economic circumstances. The environmental conditions to which the prosthesis will be exposed and the locally available supply and maintenance arrangements must also be considered. At one extreme the person is unable to use a functional prosthesis but desires a cosmetic replacement. At the other extreme they desire and are able to achieve high levels of activity and require an appropriate prosthesis. Some people wish to engage in specific activities that require particular components. The prosthetic team with their educational and clinical experience has to make a choice of components based on this information.

This document is a preview generated by EVS

# Prostheses and orthoses — Factors to be considered when specifying a prosthesis for a person who has had a lower limb amputation

## 1 Scope

This International Standard describes the factors to be considered when specifying a prosthesis for a person who has had a lower limb amputation.

## 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 8548-2, *Prosthetics and orthotics — Limb deficiencies — Part 2: Method of describing lower limb amputation stumps*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8548-2 and the following apply.

### 3.1

#### **balance**

ability to maintain the body's mass over its base of support

### 3.2

#### **coordination**

ability to execute smooth, accurate, controlled movements

### 3.3

#### **endurance**

ability to sustain repeated muscular effort

## 4 Stump characteristics

NOTE A method of describing a lower limb amputation stump is given in ISO 8548-2.

### 4.1 General

The characteristics listed in 4.2 to 4.7 require particular consideration.