

Institut luxembourgeois de la normalisation de l'accréditation, de la sécurité et qualité des produits et services

ILNAS-EN 13586:2004+A1:2008

Cranes - Access

Appareils de levage à charge suspendue - Accès

Krane - Zugang

National Foreword

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This European Standard was approved by CEN on 1 October 2003 and includes Corrigendum 1 issued by CEN on 24 January 2007 and Amendment 1 approved by CEN on 4 March 2008.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 13586:2004+A1:2008) has been prepared by WG 4 under the direction of Technical Committee CEN/TC 147, "Cranes - Safety", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

This document supersedes EN 13586:2004.

This document includes Amendment 1, approved by CEN on 2008-03-04 and the Corrigendum issued on 2007-01-24.

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A].

The modifications of the related CEN Corrigendum have been implemented at the appropriate places in the text and are indicated by the tags [AC].

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association and supports essential requirements of EU Directive(s).

For relationship with EU Directives, see informative Annexes ZA and ZB, which are integral parts of this document. (A)

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This European Standard is a harmonised standard to provide one means for access on cranes to conform with the relevant Essential Health and Safety Requirements of the Machinery Directive 98/37/EC.

This European Standard is a type C standard as stated in EN 1070.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this standard.

When provisions of this type C standard are different from those which are stated in type B standard, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

1 Scope

This European Standard specifies design requirements for non-powered access installed on cranes.

NOTE 1 For other type of access a requirement for information to be supplied is specified.

This European Standard covers access to control stations and all access required for maintenance, certain erection and dismantling operations (see below) and emergency.

For those cranes which are intended to be erected and dismantled at their places of work, specific requirements for the access needed during these operations are given in the appropriate European Standards for specific crane types.

NOTE 2 Specific requirements for access on particular types of crane are given in the appropriate European Standard for the particular crane type.

The dimensions given in this European Standard do not take into account the safety distances related to:

- guarding;
- relative movement between crane and adjacent structure;
- hazardous surface temperature;
- electrical equipment.

The significant hazards covered by this European Standard are identified in clause 4.

This European Standard is not applicable to cranes which are manufactured before the date of publication by CEN of this standard.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 292-1:1991, Safety of machinery - Basic concepts, general principles for design — Part 1: Basic terminology, methodology.

EN 292-2:1991+A1:1995, Safety of machinery — Basic concepts, general principles for design — Part 2: Technical principles and specifications.

EN 349, Safety of machinery — Minimum gaps to avoid crushing of parts of the human body.

EN 363, Personal protective equipment against falls from a height — Fall arrest systems.

EN 1070:1998, Safety of machinery — Terminology.

3 Terms, definitions and symbols

3.1 Symbols

b	Rung	and
D	Rung	ena

- d Distance between centre line of rung and vertical surface
- e Distance between the ladder and an obstacle to the rear
- f Distance between the axis of the ladder and a lateral obstacle
- g Going
- g Gap between stiles if they are discontinuous
- g Gap between separate sections of handrails when they are discontinuous
- h Rise
- i Rung pitch
- k Rung size
- I Clear width
- m Clear width
- n Diameter, width, thickness
- p Tread width
- p Free length for hand-clearance
- q Hand clearance to mounting surface
- r Vertical distance between the lower part of handrails and handholds and the floor or the foothold
- Vertical distance between the higher part of the handrail and the floor of the platform or rest platform situated at the top of the ladder or the stair
- t Handrail situated along a ladder. Clearance between the edge of the handrail and the edge of the rung or the side rail of the ladder
- u Clearance between parallel handrails where the body has to pass through
- v Distance between the floor or stair and the handrail or guard-rail
- v1 Gap between the top of the toe board and the bottom of the intermediate guard rail
- v2 Gap between the top of the intermediate guard rail and the bottom of the guard-rail
- w Distance between the floor and the top of the toe board
- y Clearance between the floor and the lower edge of the toe board
- z Distance between rungs and handhold or handrails