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SANS 50081-2:1998

Edition 1 and EN corr., and EN amdts A2, A1, nat. amdt 1

EN 81-2:1998

Edition 2 and corr., and amdts A2, A1

Any reference to SABS EN 81-2 is deemed
to be a reference to this standard
(Government Notice No. 1373 of 8 November 2002)

SOUTH AFRICAN NATIONAL STANDARD

Safety rules for the construction and installation of lifts

Part 2: Hydraulic lifts

This national standard is the identical implementation of EN 81-2:1998 and EN corrigendum, and EN amendments A2, A1, and is adopted with the permission of CEN, rue de Stassart 36, B-1050 Brussels.

**WARNING — Refer to the national
foreword in this standard for a reference
to a front-end standard**

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Table of changes

Change No.	Date	Scope
EN corr.	1999	Changed to correct a reference in the subclause on partially enclosed well (5.2.1.2), to add a reference in the subclause on strength of the walls (5.3.1.1), to correct wording in the subclause on lighting of the well (5.9), to correct the figure on examples of locking elements (figure 3), to correct a reference in the subclause on precautions against free fall, descent with excessive speed and creeping of the car (9.5), to correct the title of the clause on clearances between car and wall facing the car entrance, and between car, balancing weight or balancing weight (11), to correct the title of the subclause on clearances between car, balancing weight or balancing weight (11.3), to correct a reference in the subclause on electrical anti-creep system (14.2.1.5), to correct references in the subclause on technical details and plans (C.3), to correct a formula in the figure on hydraulic fluid flow through, pressure before and after the rupture valve (figure F.2), to correct figures in the clause on examples of calculation method (G.7), to correct a formula in the subclause on bending stress (G.7.5.1.1), to correct a reference in the subclause on general (J.1) in the annex on pendulum shock tests, and to correct a term in the second note to the annex on clauses of this standard addressing essential requirements or other provisions of EU directives.
EN amdt A2	2004	Amended to change or add text to the foreword and the introduction, to add new definitions, to change text in the clauses on lift well (5), machine and pulley rooms (6), lift machine (12), electric installations and appliances (13), protection against electric faults; controls; priorities (14), notices, markings and operating instructions (15), examinations – tests – register – maintenance (16), and to add and change text in the annexes on list of the electric safety devices (annex A), technical dossier (annex C), examinations and tests before putting into service (annex D), periodical examinations and tests, examinations and tests after an important modification or after an accident (annex E), machinery spaces – access (6.1) (annex L), and clauses of this standard addressing essential requirements or other provisions of EU directives (annex ZA).
EN amdt A1	2005	Amended to change text in the introduction, to change normative references, to change definitions, to change text in the clauses on protection against electric faults; controls; priorities (14), and examinations – tests – register – maintenance (16), to change text in the annexes on list of the electric safety devices (annex A), and safety components – tests procedures for verification of conformity (annex F), to add a new annex M on description of possible measures, and to change text in the annex on clauses of this standard addressing essential requirements or other provisions of EU directives (annex ZA).
Nat. amdt 1	2006	Amended to change the designation from SABS to SANS, with no technical changes.

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EN 81-2:1998

Edition 2 and corr., and amdts A2, A1

Abstract

Specifies the safety rules for the construction and installation of permanently installed new hydraulic lifts serving defined landing levels, having a car designed for the transportation of persons or persons and goods, suspended by jacks, ropes or chains and moving between guide rails inclined not more than 15° to the vertical. In addition, supplementary requirements are considered in special cases (potentially explosive atmosphere, extreme climate conditions, seismic conditions, transporting dangerous goods, etc.).

Keywords

acceptance (approval), construction, definitions, design, hoists, hydraulic equipment, hydraulic lifts, inspection, installation, lifting equipment, lifts, passenger lifts, safety, safety measures, specifications.

National foreword

This South African standard was approved by National Committee StanSA SC 5120.50B, *Lifts, escalators and passenger conveyors – Lifts other than domestic lifts*, in accordance with procedures of Standards South Africa, in compliance with annex 3 of the WTO/TBT agreement.

This SANS edition is technically identical to SABS EN 81-2:1998, with the addition of EN corrigendum, EN amendments A2 and A1, and national amendment 1.

Users of SANS 50081-2 should note that an SANS standard (SANS 1545-2) exists, which is based on SANS 50081-2, but which has additional information regarding the application of SANS 50081-2 in the South African environment. SANS 1545-2 is a front-end standard.

Deviations from the international requirements in this standard are given in SANS 1545-2. In the case of dispute, SANS 1545-2 will take precedence over this standard.

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EUROPEAN STANDARD

EN 81-2:1998/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2005

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English Version

Safety rules for the construction and installation of lifts - Part 2: Hydraulic lifts

Règles de sécurité pour la construction et l'installation des
élévateurs - Partie 2: Ascenseurs hydrauliques

Sicherheitsregeln für die Konstruktion und den Einbau von
Aufzügen - Teil 2: Hydraulisch betriebene Personen- und
Lastenaufzüge

This amendment A1 modifies the European Standard EN 81-2:1998; it was approved by CEN on 13 May 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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