MALAYSIAN STANDARD

MS EN 81-3:2008

SAFETY RULES FOR THE CONSTRUCTION AND INSTALLATION OF LIFTS - PART 3: SERVICE LIFTS

ICS: 91.140.90

Descriptors: lifts, service lifts, electric equipment, building codes, safety requirements, accident

FOR SALE WITHIN MALAYSIA ONLY

DEPARTMENT OF STANDARDS MALAYSIA

DEVELOPMENT OF MALAYSIAN STANDARDS

The **Department of Standards Malaysia (STANDARDS MALAYSIA)** is the national standards and accreditation body of Malaysia.

The main function of STANDARDS MALAYSIA is to foster and promote standards, standardisation and accreditation as a means of advancing the national economy, promoting industrial efficiency and development, benefiting the health and safety of the public, protecting the consumers, facilitating domestic and international trade and furthering international cooperation in relation to standards and standardisation.

Malaysian Standards (MS) are developed through consensus by committees which comprise balanced representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject at hand. To the greatest extent possible, Malaysian Standards are aligned to or are adoption of international standards. Approval of a standard as a Malaysian Standard is governed by the Standards of Malaysia Act 1996 [Act 549]. Malaysian Standards are reviewed periodically. The use of Malaysian Standards is voluntary except in so far as they are made mandatory by regulatory authorities by means of regulations, local by-laws or any other similar ways.

STANDARDS MALAYSIA has appointed **SIRIM Berhad** as the agent to develop, distribute and sell the Malaysian Standards.

For further information on Malaysian Standards, please contact:

Department of Standards Malaysia
Ministry of Science, Technology and Innovation
Level 1 & 2, Block 2300, Century Square
Jalan Usahawan
63000 Cyberjaya
Selangor Darul Ehsan
MALAYSIA

Tel: 60 3 8318 0002
Fax: 60 3 8319 3131
http://www.standardsmalaysia.gov.my

E-mail: central@standardsmalaysia.gov.my

OR

SIRIM Berhad
(Company No. 367474 - V)
1, Persiaran Dato' Menteri
Section 2, P.O. Box 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA

Tel: 60 3 5544 6000
Fax: 60 3 5510 8095
http://www.sirim.my

E-mail: msonline@sirim.my

Committee representation

The Industry Standards Committee on Mechanical Engineering (ISC F) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Department of Occupational Safety and Health Malaysia
Department of Standards Malaysia
Jabatan Kerja Raya Malaysia
Machinery and Equipment Manufacturer's Association
Malaysian Industrial Development Authority
Malaysian Iron and Steel Industry Federation
Ministry of International Trade and Industry
National Institute of Occupational Safety and Health Malaysia
Petroliam Nasional Berhad
SIRIM QAS International Sdn Bhd
Science and Technology Research Institute for Defence
Suruhanjaya Perkhidmatan Air Negara
Suruhanjaya Tenaga
The Institution of Engineers, Malaysia
Universiti Kebangsaan Malaysia
Universiti Malaya
Universiti Sains Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Lifting Devices which supervised the adoption of the EN Standard consists of representatives from the following organisations:

Construction Industry Development Board Malaysia
Department of Occupational Safety and Health Malaysia
Favelle Favco Cranes (M) Sdn Bhd
IKRAM QA Services Sdn Bhd
Jabatan Kerja Raya Malaysia
MHE-Demag Malaysia Sdn Bhd
MS Elevators Engineering Sdn Bhd
Northport (Malaysia) Berhad
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd (Construction and Building Materials Testing Section)
Southern Wire Industries (M) Sdn Bhd
Tenaga Nasional Berhad
The Institution of Engineers, Malaysia
Top Safe OSH Training Solutions Sdn Bhd
Universiti Kebangsaan Malaysia

The Working Group on Lifts and Escalators which recommended the adoption of the EN Standard consists of representatives from the following organisations:

Department of Occupational Safety and Health Malaysia
Fuji Lift and Escalator Manufacturing Sdn Bhd
Fujitec (Malaysia) Sdn Bhd
Hitachi Elevator Engineering (M) Sdn Bhd
KONE Elevator (M) Sdn Bhd
Malaysian Lift and Escalator Association
MS Elevators Engineering Sdn Bhd
Niche Elevator Sdn Bhd
Otis Elevator Company (M) Sdn Bhd
Persatuan Kontraktor Lift dan Eskalator Malaysia
RYODEN (Malaysia) Sdn Bhd
SIRIM Berhad (Secretariat)
The Institution of Engineers, Malaysia
ThyssenKrupp Elevator Malaysia Sdn Bhd

FOREWORD

The adoption of the EN Standard as a Malaysian Standard was recommended by the Working Group on Lifts and Escalators under the authority of the Mechanical Engineering Industry Standards Committee.

This Malaysian Standard is identical with EN 81-3:2000, *Safety rules for the construction and installation of lifts – Part 3: Electric and hydraulic service lifts*, published by the European Committee for Standardization (CEN) with the exceptions as listed below.

MS EN 81 consists of the following parts, under the general title *Safety rules for the construction and installation of lifts*:

Part 1: *Electric lifts*

Part 2: *Hydraulic lifts*

Part 3: *Electric and hydraulic service lifts*

This standard is published with the permission of the European Committee for Standardization. Such permission is hereby acknowledged.

MALAYSIAN STANDARD EXCEPTIONS

a) in the source text, "this European Standard" should read "this Malaysian Standard";

b) the comma which is used as a decimal sign (if any), to read as a point;

c) in the normative references, references to European/International Standards should be replaced by equivalent Malaysian Standards as follows:

Referenced European/International Standards	Corresponding Malaysian Standards
EN 81-1:1998, *Safety rules for the construction and installation of lifts – Part 1: Electric lifts*	MS 2021-1:2006, *Safety rules for the construction and installation of lifts – Part 1: Electric lifts*
EN 81-2:1998, *Safety rules for the construction and installation of lifts – Part 2: Hydraulic lifts*	MS 2021-2:2007, *Safety rules for the construction and installation of lifts – Part 2: Hydraulic lifts*
prEN 81-8:1997, *Safety rules for the construction and installation of lifts – Part 8: Lift landing doors – Fire resistance testing*	MS 1073-2:1996, *Specification for fire resistant doorsets – Part 2: Methods for determination of fire resistance – General principles*

FOREWORD *(continued)*

Referenced European/International Standards	Corresponding Malaysian Standards
EN 294:1992, *Safety of machinery - Safety distances to prevent danger zones being reached by the upper limbs*	MS ISO 13852:2003, *Safety of machinery – Safety distances to prevent danger zones being reached by the upper limbs*
EN 60947-4-1, *Low-voltage switchgear and controlgear - Part 4: Contactors and motor-starters - Section 1: Electromechanical contactors and motor-starters*	MS IEC 60947-4-1, *Low-voltage switchgear and controlgear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-starters*
EN 60947-5-1, *Low-voltage switchgear and controlgear - Part 5: Control circuit devices and switching elements - Section 1: Electromechanical control circuit devices*	MS IEC 60947-5-1, *Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements -Electromechanical control circuit devices*

d) in the bibliography, references to European/International Standards should be replaced by equivalent Malaysian Standards as follows:

Referenced European/International Standards	Corresponding Malaysian Standards
EN 1050:1996, *Safety of machinery - Principles for risk assessment*	MS ISO 14121:2004, *Safety of machinery – Principles of risk assessment*
EN 60950, *Safety of information technology equipment, including electrical business equipment*	MS IEC 60950-1, *Information technology equipment – Safety – Part 1: General requirements*
prEN ISO 14122-1:1996, *Safety of machinery – Permanent means of access to machines and industrial plants – Part 1: Choice of a fixed means of access between two levels*	MS ISO 14122-1:2004, *Safety of machinery – Permanent means of access to machinery – Part 1: Choice of a fixed means of access between two levels*
prEN ISO 14122-2:1996, *Safety of machinery – Permanent means of access to machines and industrial plants – Part 2: Working platforms and gangways*	MS ISO 14122-2:2003, *Safety of machinery – Permanent means of access to machinery – Part 2: Working platforms and gangways*