

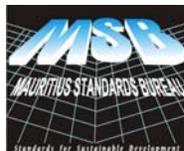
MAURITIAN
STANDARD

MS EN
131-2:2010
(including Amendment 1:2012)

First edition
2012-11-24

**Ladders —
Part 2: Requirements, testing,
marking**

ICS: 97.145



Mauritius Standards Bureau

Moka

Gr 16

This national standard is the identical implementation of EN 131-2:2010 with Amendment 1:2012 and is adopted with the permission of CEN, Rue de Stassart 36, B-1050 Brussels.

National foreword

This Mauritian Standard is identical with the European Standard **EN 131- 2:2010 A1:2012**, *Ladders — Part 2: Requirements, testing, marking*. It was adopted by the Mauritius Standards Bureau in 2012 on the recommendation of the **Mechanical Engineering Standards Committee** through its **Subcommittee on Ladders** and approval of the **Standards Council** on **29 October 2012**. It was notified in the Government Gazette on **24 November 2012***.

For the purposes of this standard the following changes should be made:

- (i) the words 'European Standard' should be read as 'Mauritian Standard';
- (ii) the 'decimal comma' should be replaced by the 'decimal point';
- (iii) Clause 3 – to insert the following statement as a note:
- 'feet' is also known locally as 'shoes'

The following Mauritian Standards are identical to the European Standards, which are referenced in the adopted standard:

European Standards

Corresponding Mauritian Standards

EN 131-1:2007, *Ladders — Part 1: Terms, types, functional sizes*

MS EN 131-1:2007, *Ladders — Part 1: Terms, types, functional sizes*

EN 131-3 :2007, *Ladders — Part 3: User Instructions*

MS EN 131-3 :2007, *Ladders — Part 3: User Instructions*

General notice no 2458 of 2012



COPYRIGHT PROTECTED DOCUMENT

© MSB 2012

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 or posting on the internet or an intranet, without permission in writing from Mauritius Standards Bureau at the address below

*Mauritius Standards Bureau
Villa Road
Moka
Mauritius*

*Telephone + (230) 433 3648
Fax + (230) 433 5051/ 433 5150
E-mail msb@intnet.mu*

Contents

			Page
National foreword			2
Introduction			4
1		Scope	5
2		Normative references	5
3		Terms and definitions	6
4		Requirements	7
	4.1	General	7
	4.2	Materials	7
	4.3	Design	11
	4.4	Surface finish	12
	4.5	Hinges (turning points)	12
	4.6	Opening restraints	12
	4.7	Rungs/steps/platforms	12
	4.8	Platform	14
	4.9	Antiskid devices	14
	4.10	Extending and sectional ladders	14
5		Testing	14
	5.1	General	14
	5.2	Strength test of stiles	15
	5.3	Bending test of the stiles	15
	5.4	Lateral deflection test of the ladder	16
	5.5	Bottom stile ends test	17
	5.6	Vertical load on rungs, steps and platforms	18
	5.7	Torsion test of rungs and steps	19
	5.8	Test of opening restraints and hinges of standing ladders	20
	5.9	Test for ladder rung/step hooks of extending ladders and combination ladders	21
	5.10	Kick-up test of the platform of standing ladders	22
	5.11	Feet pull test	23
	5.12	Test on hand-/kneerails	25
	5.13	Maximum extension of ladder	27
	5.14	3-part combination ladder in A-position test	27
	5.15	Torsion on ladder length	27
	5.16	Test methods for plastic ladders	29
6		Marking and user instructions	33
7		Certification	33
Annex A (normative) Test sequence			34
Annex B (informative) A-deviations			35
Bibliography			38

Introduction

Due to the unhomogeneity of the material wood, special requirements have been appropriated on this item.

PREVIEW

1 Scope

This European Standard specifies the general design features, requirements and test methods for portable ladders.

It does not apply to step stools or ladders for specific professional use such as firebrigade ladders, roof ladders and mobile ladders.

It does not apply to ladders used for work on or near live electrical systems or installations. For this purpose EN 61478 applies.

NOTE For insulating ladders for use on or near low voltage electrical installations in the range below 1000 V a.c. or 1 500 V d.c. EN 50528 is under preparation.

This European Standard is intended to be used in conjunction with EN 131-1.

For single or multiple hinge joint ladders EN 131-4 applies.

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.

EN 59, *Glass reinforced plastics — Measurement of hardness by means of a Barcol impressor*

EN 131-1:2007, *Ladders — Part 1: Terms, types, functional sizes*

EN 131-3, *Ladders — Part 3: User Instructions*

EN 204, *Classification of thermoplastic wood adhesives for non-structural applications*

EN 301, *Adhesives, phenolic and aminoplastic, for load-bearing timber structures — Classification and performance requirements*

EN 385, *Finger jointed structural timber — Performance requirements and minimum production requirements*

EN 386:2001, *Glued laminated timber — Performance requirements and minimum production requirements*

EN 391:2001, *Glued laminated timber — Delamination test of glue lines*

EN 392, *Glued laminated timber — Shear test of glue lines*

EN 408, *Timber structures — Structural timber and glued laminated timber — Determination of some physical and mechanical properties*

EN 844-9:1997, *Round and sawn timber — Terminology — Part 9: Terms relating to features of sawn timber*

EN 1310, *Round and sawn timber — Method of measurement of features*

EN 61478, *Live working — Ladders of insulating material (IEC 61478:2001)*

EN ISO 179-1, *Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test (ISO 179-1:2000)*

EN ISO 527-1, *Plastics — Determination of tensile properties — Part 1: General principles (ISO 527-1:1993 including Corr 1:1994)*