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Ladders

Part 7: Mobile ladders with platform

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee B/512, Ladders.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Foreword

This document (EN 131-7:2013) has been prepared by Technical Committee CEN/TC 93 "Ladders", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by January 2014, and conflicting national standards shall be withdrawn at the latest by January 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This European Standard is one of a series about ladders. The other Standards of this series are listed in Clause 2 and in the Bibliography.

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1 Scope

This European Standard defines terms and specifies the general design characteristics of mobile ladders with platform. It applies to mobile ladders with a working platform, with a maximum area of 1 m², and a maximum platform height of 5 m, to be used only by one person at the time. The maximum load is 150 kg which includes a maximum combined load of the user and any tools, equipment and materials

It does not apply to portable ladders according to EN 131-1, to portable ladders according to EN 131-4, to portable ladders for fire service use according to EN 1147, to loft ladders according to EN 14975, to step stools according to EN 14183, to Stairs, stepladders and guard-rails according to EN ISO 14122-3 and to insulating ladders according to EN 50528.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 131-2, *Ladders — Part 2: Requirements, testing, marking*

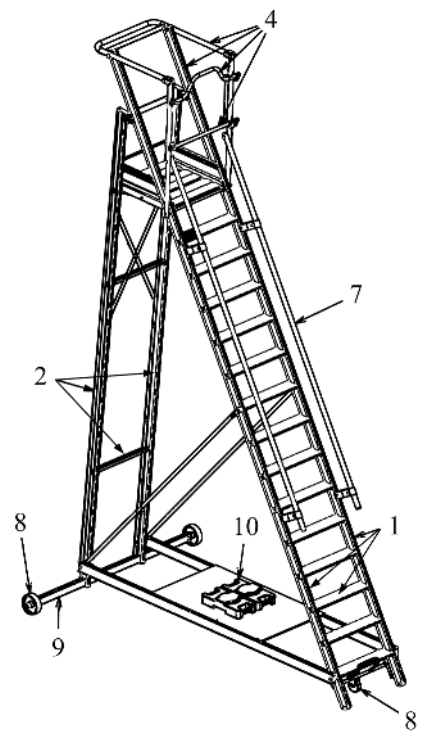
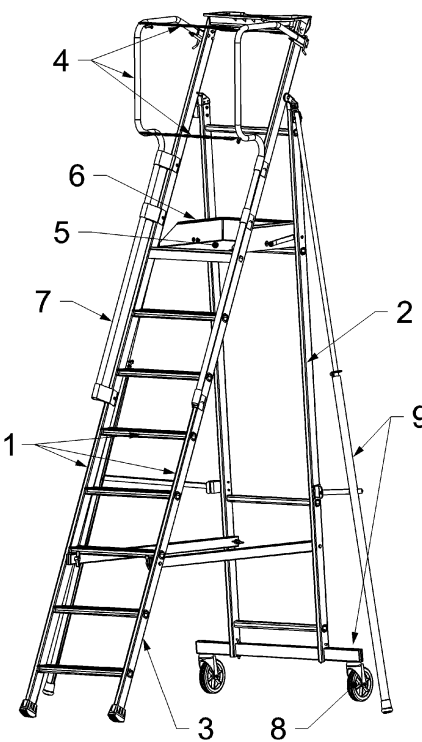
EN 131-3, *Ladders - Part 3: User Instructions*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

Table 1 — Terms and definitions

Dimensions in millimetres

No	Term	Definition	Figure
3.1	ascending leg	leg of a ladder with climbing supports	
3.2	supporting leg	leg of a ladder without climbing supports	
3.3	stile	lateral part of a ladder which supports the rungs or steps as well as cross struts of supporting legs	
3.4	preventions from falls		
3.4.1	guard rail	device to hold and protect from falls, installed on the platform of mobile platform ladders	
3.4.2	middle rail	element of the guard rail, placed between the top rail and the platform	
3.4.3	gate at the ascending leg	rigid or flexible device, parallel to the platform, to hold and to protect from falls	
3.5	platform	topmost standing surface which is different from a step	
3.6	toe board	side protection fixed at the platform or the guard rail	
3.7	handrail	device for mobile ladders parallel to the ascending leg, which allows a secure grip during the ascending/descending	
3.8	wheel	device to facilitate the movement of the mobile platform ladder Note 1 to entry: Wheels can be: — used only use for transportation; or — used for transportation and as load bearing element; — fitted with brakes.	
3.9	stabiliser	device to increase the stability of the mobile platform ladder	

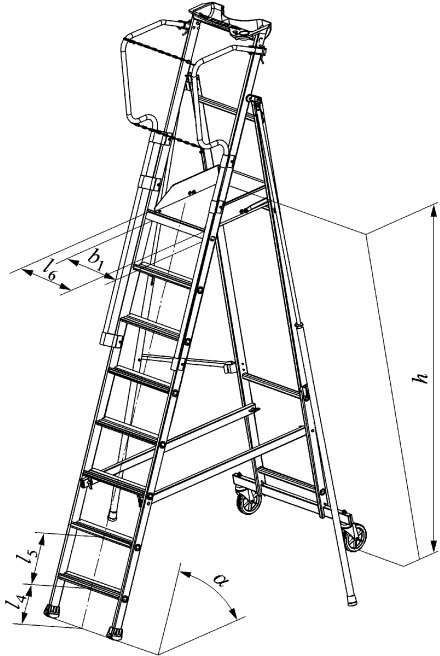
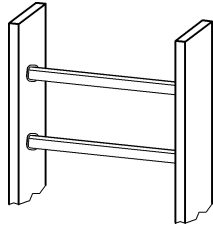
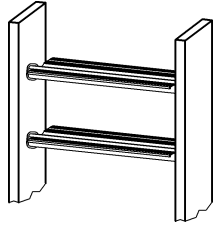
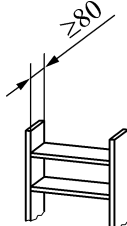
3.10	ballast	permanent/fixed load applied to the mobile platform ladder used to increase its resistance to overturning	
3.11	angle of inclination of the ascending leg α	angle between the floor and the imaginary line joining the upper edges of the sides of the front steps	
3.12	distance between the bottom end and the lowest rung/wide rung/step l_4	distance from the lower end of the ladder to the upper edge of the lowest rung/wide rung/step, measured in the middle line between the stiles	
3.13	distance between rungs/wide rungs/ steps l_5	distance between the rungs/wide rungs/steps and between the top rung/wide rung/step and the platform measured in the middle line between the stiles at the upper edges	
3.14	climbing height h	vertical distance between the ground and the top of the platform measured vertically when all feet are in contact with the ground	
3.15	inner width of ascending leg b_1	usable distance between the inner sides of the stiles measured at the level of the platform	
3.16	Rung (g)	climbing support with a standing surface from front to back of less than 50 mm and at least 20 mm	 Figure 4
3.17	wide rung (g)	climbing support with a standing surface from front to back equal to or greater than 50 mm and less than 80 mm	 Figure 5
3.18	Step (g)	climbing support with a standing surface from front to back equal to or greater than 80 mm	

Figure 6		
3.19	distance between the bottom end and the lowest rung/ wide rung/ step h_1	vertical distance between the floor and the top of the first rung/wide rung/step
3.20	distance between rungs/ wide rungs/ steps h_2	vertical distance between the rungs/wide rungs/steps and between the top rung/wide rung/step and the platform measured in the middle line between the stiles at the upper edges
3.21	clearance e	clearance between two rungs of consecutive ascending legs

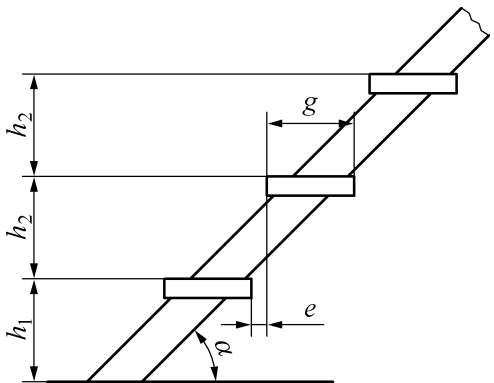


Figure 7

4 Requirements

4.1 General

A mobile platform ladder shall be designed and manufactured to prevent accidental slips of product and/or user.

The marking shall be legible and durable.

The durability of the marking shall be verified.

Wide rungs/steps and platforms shall be designed to be horizontal when the product is used on a flat floor.

Wide rungs, rungs, steps and platforms made of metal or plastics shall have a textured surface on the working face to reduce slipping. The contact surface of the coverings shall adhere firmly to the rungs or steps.

4.2 Surface finishes

This requirement shall be according EN 131-2.

The coating of wooden parts shall be transparent and permeable to water vapour. This does not apply to platform components manufactured from plywood materials.

4.3 Materials

4.3.1 General

The requirements on materials shall be according to EN 131-2 apply unless otherwise stated.

4.3.2 Wood

Wood used for the platform should be of durable quality and be suitable for both indoor and outdoor use.

The coating shall be transparent and permeable to water vapour.