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Lead-acid starter batteries –

Part 4: Dimensions of batteries for heavy trucks

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WATERMARK

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LEAD-ACID STARTER BATTERIES

Part 4: Dimensions of batteries for heavy trucks

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
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PREFACE

This standard has been prepared by IEC Technical Committee No. 21: Secondary Cells and Batteries.

The text of this standard is based on the following documents:

| Six Months' Rule | Report on Voting | Two Months' Procedure | Report on Voting |
|------------------|------------------|-----------------------|------------------|
| 21(C0)290 | 21(C0)297 | 21(C0)301 | 21(C0)304 |

Full information on the voting for the approval of this standard can be found in the Voting Reports indicated in the above table.

LEAD-ACID STARTER BATTERIES
Part 4: Dimensions of batteries for heavy trucks

SECTION ONE - GENERAL

1. Scope

- 1.1 This standard is applicable to lead-acid batteries used for starting, lighting and igniting of heavy trucks.

2. Object

The object of the present standard is to specify the main dimensions of starter batteries of nine types.

SECTION TWO - MAIN DIMENSIONS OF BATTERIES

3. Standard series

The series of starter batteries for trucks comprises nine batteries of Types D1, D2, D2a, D3, D3a, D4, D5, D6 and D7.

4. Main dimensions of batteries

The dimensions corresponding to the starter batteries shall be in accordance with Table 1.

5. Fastening

Types D2, D3, D4, D5, D6 and D7 are intended for fastening by the upper part of the battery only. This fastening shall be effected at a level defined by dimension h_1 in Figures 2, 4 and 5. The configuration shall permit the fitting of an angle-iron frame both legs of which are 20 mm wide for the major part of its length and width.

However, Types D1, D2a and D3a may be fastened by the base of the battery container or by the upper part of the battery container.

Fastening by the base of the container on the long sides is effected by fixing mouldings over the full length of the long sides and providing notches to prevent movement of the battery lengthwise, as shown in Figure 1.

Fastening of Type D1 by the base of the case on the short sides is effected by fixing lugs with notches to prevent movement of the battery crosswise. This arrangement of the lugs and notches shall be in accordance with Figure 1.

TABEAU I / TABLE I

Dimensions des batteries de démarrage au plomb prévues pour poids lourds
 Dimensions of lead-acid starter batteries for heavy trucks

| Type | l | l ₁ | l ₂ | b | b ₁ | b ₂ | h | h ₁ | c | l + 2c |
|------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------|----------|
| D1 | 386 ⁰ ₋₅ | 377 ⁰ ₋₅ | 390 ⁰ ₋₅ | 175 ⁰ ₋₄ | 175 ⁰ ₋₄ | -- | 205 ⁰ ₋₄ | 184 ⁰ ₋₄ | 10 max. | 406 max. |
| D2 | 349 ⁰ ₋₅ | 344 ⁰ ₋₈ | -- | 175 ⁰ ₋₄ | 162 ⁰ ₋₄ | -- | 235 ⁰ ₋₄ | 213 ⁰ ₋₄ | | |
| D2a | 349 ⁰ ₋₅ | 344 ⁰ ₋₈ | -- | 175 ⁰ ₋₄ | 162 ⁰ ₋₄ | 175 ⁰ ₋₄ | 235 ⁰ ₋₄ | 213 ⁰ ₋₄ | | |
| D3 | 349 ⁰ ₋₅ | 344 ⁰ ₋₈ | -- | 175 ⁰ ₋₄ | 162 ⁰ ₋₄ | -- | 285 ⁰ ₋₁₀ | 263 ⁰ ₋₄ | | |
| D3a | 349 ⁰ ₋₅ | 344 ⁰ ₋₈ | -- | 175 ⁰ ₋₄ | 162 ⁰ ₋₄ | 175 ⁰ ₋₄ | 285 ⁰ ₋₁₀ | 263 ⁰ ₋₄ | | |
| D4 | 513 ⁰ ₋₅ | 475 ⁰ ₋₅ | -- | 189 ⁰ ₋₄ | 178 ⁰ ₋₄ | -- | 223 ⁰ ₋₈ | 195 ⁰ ₋₄ | | |
| D5 | 513 ⁰ ₋₅ | 475 ⁰ ₋₅ | -- | 223 ⁰ ₋₄ | 210 ⁰ ₋₄ | -- | 223 ⁰ ₋₈ | 195 ⁰ ₋₄ | | |
| D6 | 518 ⁰ ₋₅ | 475 ⁰ ₋₅ | -- | 291 ⁰ ₋₄ | 265 ⁰ ₋₄ | -- | 242 ⁰ ₋₄ | 216 ⁰ ₋₄ | | |
| D7 | 286 ⁰ ₋₆ | 254 ⁰ ₋₇ | 256 ⁰ ₋₆ | 270 ⁰ ₋₅ | 267 ⁰ ₋₆ | -- | 230 ⁰ ₋₅ | 208 ⁰ ₋₄ | | |

Note.- En variante, un renforcement extérieur des parois du bac peut être prévu pour les talons et listeaux de fixation des bacs des batteries D2a et D3a.
 As an alternative to the base hold-down features shown for types D2a and D3a, external buttressing of the container sides is permitted.

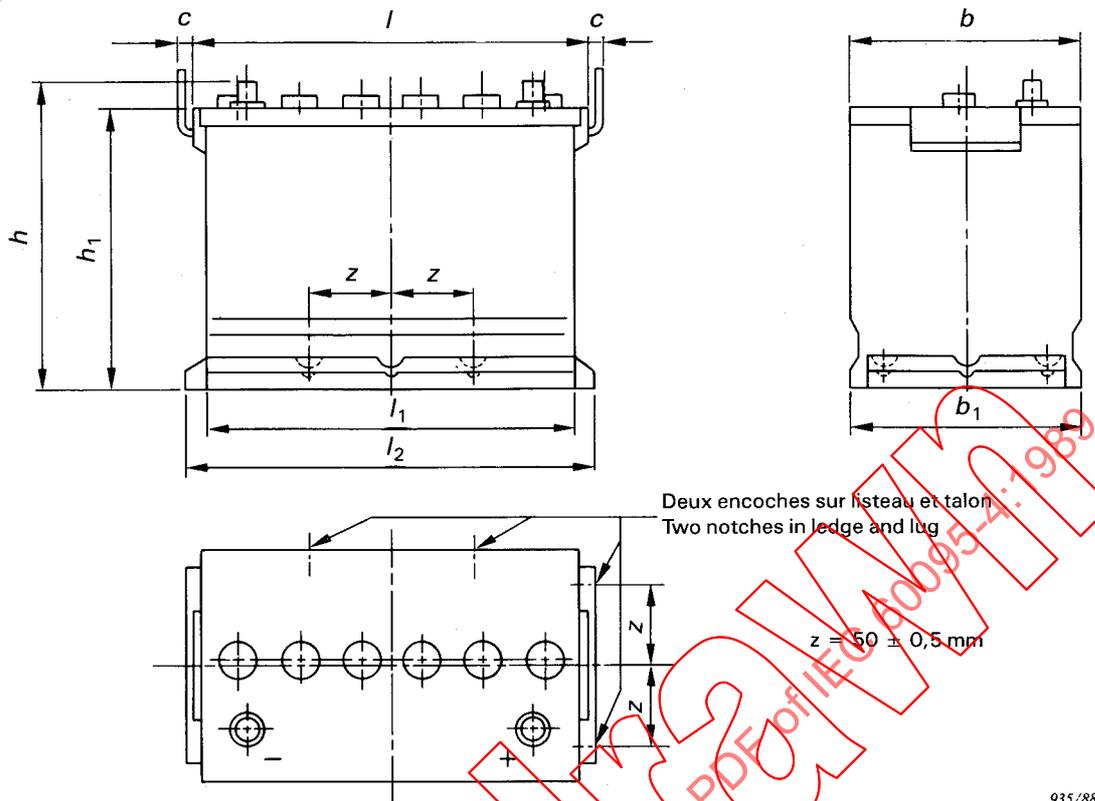


Fig. 1. - Type D1.

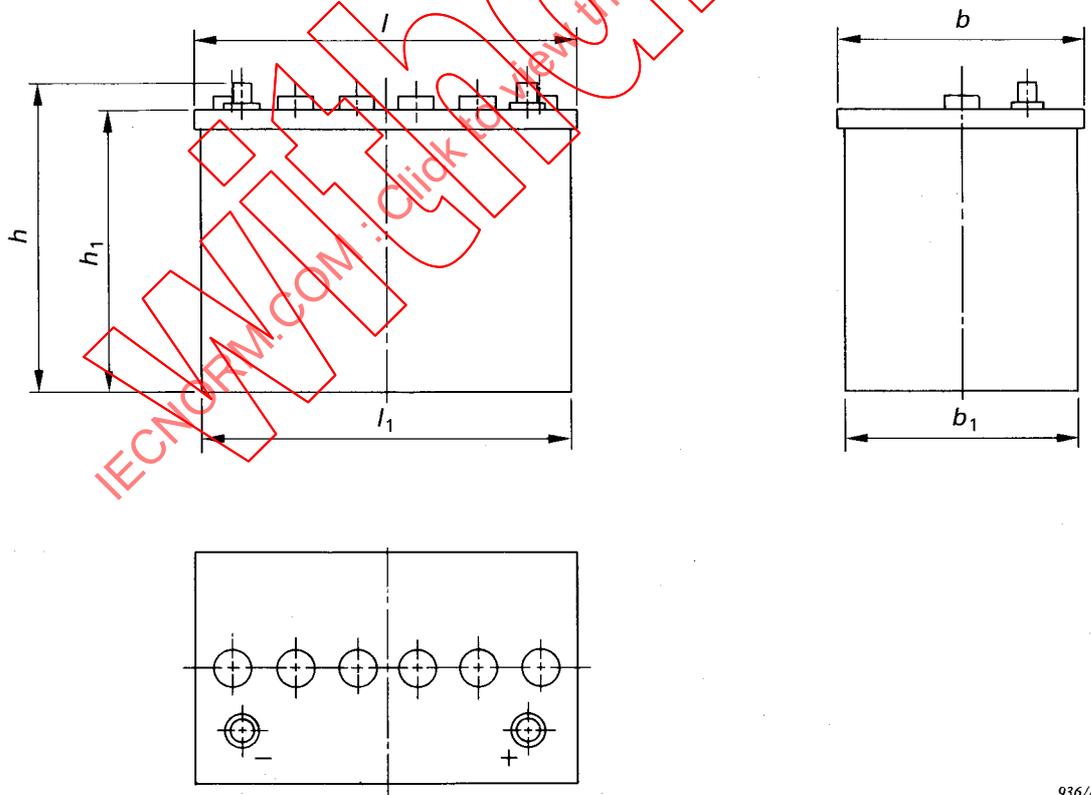


Fig. 2. - Types D2, D3.

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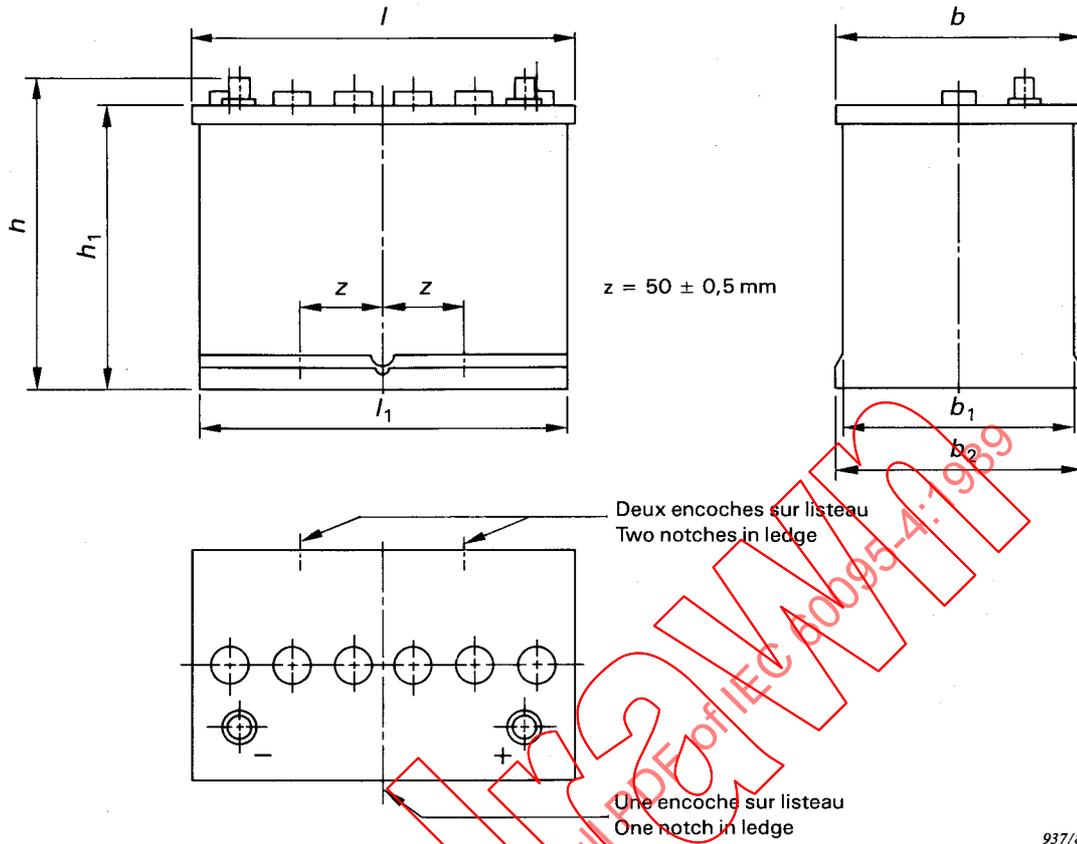


Fig. 3. — Types D2a, D3a.

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