

Mobile Access Tower Alufase 300 and 400

Holder/Manufacturer**Alufase S.A.**

Ctra M114 Km1, ES-28864 Ajalvir, Madrid, SPAIN

Supplier

Alufase S.A., Ctra M114 Km1, ES-28864 Ajalvir, Madrid, SPAIN

Product name

Alufase mobile access tower 300 and 400

Product description

As described on pages 2-6 of this certificate. Technical documentation in accordance with the material supplied for file nr nr P705347.

Requirements

The Swedish Work Environment Authority's Statute Book AFS 1990:12 Scaffolding, 6 § (RISE certification rules SPCR 064) and SS-EN 1004.

Permissible load

Load class 3 (2.0 kN/m²), in accordance with the product description

Marking

The main components of the tower shall be permanently marked with "alufase", year (from 2010 and onwards 2 digits) and week. The castors shall have the name of the manufacturer, the admissible load and time code. A sign readable from ground level must show the name of the manufacturer/supplier, designation, type examination certificate number, the SP mark and the text "Instructions for erection and use must be followed carefully".

Validity

This type examination certificate is valid until not later than 2020-05-01.

Miscellaneous

This type examination certificate replaces certificate with No 394405 dated 16th February 2010 and prior issues with the same No. The certificate was originally issued 2009-03-05 by SP Technical Research Institute of Sweden, who during 2017 has changed its name to RISE Research Institutes of Sweden AB.

Martin Tillander

This is a translation from the Swedish original document. In the event of any dispute as to its content, the Swedish text shall take precedence.

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RISE Research Institutes of Sweden AB | Certification
Box 857, SE-501 15 Borås, Sweden
Phone:+46 10-516 50 00
certifiering@ri.se | www.ri.se



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Product description of Alufase mobile access tower 300 and 400

Design

The mobile access tower consists of ladder frames with the width of 0.68 or 1.29 m (centre-to-centre distance between the standards) alternatively linked by a folding frame on the bottom plan (QUICK BASE), platforms with the length 1.12, 1.91, 2.50 or 3.05 m (centre-to-centre distance between the frames), with or without a trap door, horizontal and diagonal braces, stabilizers, inclined ladder providing an alternative access route, toe-boards and castor wheels.

Each platform level of the tower contains of frames, horizontal and diagonal braces, alternatively platform with guardrail frame and guardrail end frame and guardrails for the top end of the tower platforms. Stabilizers with telescopic legs or reinforced stabilizers are used in accordance with the conditions shown below.

Model 300 The frames or the inclined ladder are used as an access route. Platform level height 1.94 m

Model 400 The inclined ladder or the frames with a built-in ladder are used as an access route. Platform level height 2.07 m

| Component (design as per assembly instructions) | Size/type Single width (m) | Reference | Size/type Double width (m) | Reference |
|--|----------------------------------|-----------|------------------------------------|-----------|
| | | | (if not identical to single width) | |
| Frame 300 | | | | |
| 7 rungs | 1.94 | 112 | 1.94 | 122 |
| 4 rungs | 1.1 | 111 | 1.1 | 121 |
| Frame 400 | | | | |
| 5 rungs | 2.07 | 143 | 2.07 | 153 |
| 4 rungs | 1.66 | 142 | 1.66 | 152 |
| 3 rungs | 1.24 | 141 | 1.24 | 151 |
| Frame 400 with ladder | | | | |
| 5 rungs | 2.07 | 156 | 2.07 | 154 |
| 3 rungs | 1.24 | 157 | 1.24 | 155 |
| Quick Base 300 (folding frame) | 1.80×1.91 | 171 | 1.80×1.91 | 174 |
| 7 rungs | 1.80×2.50 | 172 | 1.80×2.50 | 175 |
| | 1.80×3.05 | 173 | 1.80×3.05 | 176 |
| Quick Base 400 (folding frame) | 1.80×1.91 | 171 | 1.80×1.91 | 174 |
| 5 rungs | 1.80×2.50 | 172 | 1.80×2.50 | 175 |
| | 1.80×3.05 | 173 | 1.80×3.05 | 176 |
| Guardrail end frame 300 | 0.83 | 131 | 0.83 | 132 |
| Guardrail end frame 400 | 1.15 | 136 | 0.83 | 137 |
| Guardrail frame 300 | 1.91 | 133 | | |
| | 2.50 | 134 | | |
| | 3.05 | 135 | | |

| Component (design as per assembly instructions) | Size/type Single width (m) | Reference | Size/type Double width (m) | Reference |
|---|----------------------------------|-----------|------------------------------------|-----------|
| | | | (if not identical to single width) | |
| Guardrail frame 400 | 1,91 | 163 | | |
| | 2,50 | 164 | | |
| | 3,05 | 165 | | |
| Toeboard | 0.7+1.1 | 13+506 | 1.3×1.7 | 14+506 |
| | 0.7+1.7 | 13+503 | 1.3×1.7 | 14+503 |
| | 0.7+2.4 | 13+504 | 1.3×2.4 | 14+504 |
| | 0.7+3.0 | 13+505 | 1.3×3.0 | 14+505 |
| Platform | 1.12 | 310 | | |
| | 1.91 | 311 | | |
| | 2.50 | 312 | | |
| | 3.05 | 313 | | |
| Platform with trap door | 1.12 | 300 | | |
| | 1.91 | 301 | | |
| | 2.50 | 302 | | |
| | 3.05 | 303 | | |
| Horizontal brace | 1.12 | 200 | | |
| | 1.91 | 201 | | |
| | 2.50 | 202 | | |
| | 3.05 | 203 | | |
| Diagonal brace | 1.40 | 210 | | |
| | 2.08 | 211 | | |
| | 2.63 | 212 | | |
| | 3.16 | 213 | | |
| Stabilazer | Teleskop | 432 | | |
| | Förstärkta | 433 | | |
| Adjustable legs and castors | φ125 mm | 404+411 | | |
| | φ150 mm | 404+412 | | |
| | φ200 mm | 404+413 | | |
| Inclined ladder 300 | 2.04 | 801 | | |
| Inclined ladder 400 | 2.10 | 805 | | |
| Inclined ladder with support 300 | 1.83 | 802 | | |
| Inclined ladder with support 400 | 1.88 | 806 | | |

Dimensions

| Component | Dimensions (mm) |
|--|-------------------------|
| Frames, guardrail frames, horizontal and diagonal braces | Ø50.6×1.5 |
| Stabilisers telescopic | Ø50.6×1.5 Ø46.8×2.5 |
| Stabilisers reinforced | Ø50.6×2.5 |
| Platform supporting sections | 85.4×66 special profile |

Design

In the bottom platform level of the tower, insert two horizontals between the frames, or use the Quick Base-frame. In Model 400, use a frame without a ladder and a frame with ladder, or two frames without ladders and an inclined ladder as an access route.

On each platform level, place two diagonal cross braces in accordance with the user manual of Alufase. In the double width tower, place the cross braces on both sides, that means 4 diagonals for each platform level.

In the tower a platform is mounted on every platform level, that means at 1.94 m distance between the levels for Model 300 and 2.07 m for Model 400.

For more information, see Alufase assembly and user guide.

Conditions

- Maximum indoor and outdoor heights are shown in the following tables. The stabilisers must be positioned at 45° to the prolongation of the gable of the tower.

| Single width tower | | | | | |
|--|--|--------------|--------------|--------------|--------------|
| Maximum height to topmost platform (m) | Stabilizers (T=telescopic; R=reinforced) | | | | |
| | Indoor | Outdoor | | | |
| Tower length | All | 1.12 m | 1.91 m | 2.50 m | 3.05 m |
| - 2.00 m | | | | | |
| - 3.9 m | | | | | |
| - 4.8 m | | | | | |
| - 5.9 m | Stabilizer T* | Stabilizer T | Stabilizer T | Stabilizer R | Stabilizer R |
| - 6.9 m | | | Stabilizer R | | |
| - 7.6 m | Stabilizer T/R | Stabilizer R | | | |
| - 8.1 m | | | | | |
| - 11.9 m | | | | | |

* Only for tower L=1.12 m

| Double width tower | | | | | |
|--|--|--------------|--------------|--------------|--------------|
| Maximum height to topmost platform (m) | Maximum height to topmost platform (m) | | | | |
| | Inomhus | Outdoor | | | |
| Tower length | All | 1.12 m | 1.91 m | 2.50 m | 3.05 m |
| - 2.00 m | Stabilizer T/R | Stabilizer T | | | |
| - 3.9 m | | | | | |
| - 4.8 m | | Stabilizer R | Stabilizer T | Stabilizer T | Stabilizer R |
| - 5.9 m | | | | | |
| - 6.9 m | | | Stabilizer R | Stabilizer R | |
| - 7.6 m | | | | | |
| - 8.9 m | | | | | |
| - 11.9 m | | | | | |

- On single width towers with a height ≤ 1.5 m (≤ 1.35 m for $L=1.12$ m), guardrails, guardrail frames and toeboards do not have to be used, provided that the maximum possible horizontal working load does not exceed 100 N and that there is no wind load. In this event, the safety margin against tipping is ≥ 1.2 . For double width towers, this condition is valid for platform heights ≤ 2.00 m.
- Only one (1) platform may be loaded. The maximum permissible distributed load on the platform is 2.0 kN/m² (load class 3).
- A minimum of one platform, guardrail frames on the long sides and the gables must always be fitted at working level. The minimum height of the guardrail must be 1 m (≥ 950 mm).
- When working on buildings or structures, or with any other work where there is a risk of persons or objects slipping under the guardrail, toe-boards must be fitted all round the platform
- The tower must only be accessed from inside the framing. Model 400 must be accessed either by the frames with built-in ladder or by inclined ladders. When using inclined ladders, there must be platforms on every maximum 2.07 m level.
- The tower must not be used as an access route to other structures.
- Diagonal braces and guardrails must not be used as ladders.
- The castor wheels of the mobile access tower must be locked unless the tower is being moved.
- It is forbidden to fasten material that could catch the wind, such as advertising banners etc., to the scaffolding.

Erection instructions

Erection instructions must be supplied with the mobile access tower when it is handed over to the user.

Use

Whether or not the access tower is fitted with wheels, it is only intended for temporary and short-term work.

Miscellaneous

This type examination certificate is valid for mobile access towers made and supplied by the manufacturer and supplier as stated on the certificate, and of which the materials, dimensions and design/construction accord with those of the inspected material.

The stair towers must not be assembled incorporating components from other scaffolds unless a special investigation of the resulting load-carrying capacity has been carried out.