Product Manual / Assembly and Use Instructions for Scafom-Rux Mobile Scaffolds of the Series:

Mobilo 1400
General information regarding this product manual

This product manual is valid for the assembly and disassembly as well as for the use of components and mobile scaffolds of the series Mobilo 1400 by the manufacturer Rux GmbH. Assembly instructions: EN 1298-IM-de.

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The requirements of DIN EN 1004:2005 shall be taken as a basis. Every user shall be obliged to be informed of the current status of all applicable requirements at any one time.

General principles for the use and assembly of mobile working platforms

- Fundamentally, there is an enhanced danger of falling when carrying out assembly and disassembly work on mobile working platforms as well as when using them. The danger of falling must be reduced insofar as this is possible under the prevailing circumstances. There may be no situations when a fitter is not secured at the very least by a guardrail pair at a height of 1.00 m above her or his standing level.
- The handling as well as the assembly and disassembly of mobile working platforms may only be carried out by persons that are suitable from a physical and professional point of view. All persons need to be appropriately instructed specifically for these types of work. In principle, a qualified person with adequate expertise has to be responsible for supervision.
- At least two persons are necessary for the assembly and disassembly.
- A risk assessment and a safety-related evaluation pursuant to the German Industrial Safety Act (ArbSchG) are necessary for handling mobile working platforms.
- The German Ordinance on Industrial Safety (BertrSichV), the Technical Regulations for Operational Safety (TRBS) and the DIN EN 1004 (relating to mobile working platforms out of pre-fabricated components) as well as all requirements and regulations resulting from them in their then valid version are to be observed.
- When carrying out assembly, disassembly or modification work on the scaffolding, the requirements of the professional association for the building industry (BG Bau) need to be observed e.g. BGI 663 and BG Baustein B23, mobile working platforms.
- When carrying out jobs from the scaffolding, the requirements of the professional association for the building industry (BG Bau) need to be applied for the specific job to be carried out.
- The scaffolding needs to be checked by a qualified person before and during every use with regard to the safety-relevant aspects.
- Any form of bridging from a mobile working platform to buildings, other mobile working platforms or other structures is impermissible.
- A certificate shall be required in individual cases should the mobile working platform be used in a way or form that is different to that described in this manual.
Special principles for the use and assembly of mobile working platforms

The specific tasks/aspects described below are to be carried out/observed for the use of mobile working platforms:

- Lock the castors by treading down the red-marked lever on the castors until it locks down. In principle always, except when moving.
- Align vertically and horizontally by turning out the spindles on the castors so far until the scaffolding is standing correctly (inclination less than 1 %). Basically always, no exceptions.
- Ensure that all the supports make contact with the installation surface area. Basically always, no exceptions.
  All castors have to make firm contact with the installation surface area.
  When using telescopic arms for the chassis beams, the base jacks on the supports have to be turned out so far that there is no longer any looseness and play between the chassis beams and the telescopic arms. All supports need to make firm contact with the installation surface area.
- Mobile working platforms may only be used on a flat, sufficiently firm surface.
- To allow the scaffold to be moved, lift the supports/telescopic arms to such an extent that the clearance to the ground is as narrow as possible. The extended lengths are to be kept.
- No persons or materials are to be located on the scaffolding when it is moved.
- The mobile working platform is to be moved slowly in a longitudinal direction or diagonally. Every type of collision is to be avoided.
- The mobile working platforms may not be moved using lifting equipment.
- Ensure that adequate ballast weights are used. Basically always, no exceptions.
- If stipulated, extension crossbeams or stabilisers and ballast are to be fitted and used.
- Mobile working platforms may only be applied to a flat, sufficiently firm surface.
- Diagonal ladders for access to the decked areas may not stand on the ground.
- When accessing the decked areas using ladders, it is forbidden to carry materials or tools.
- Persons may only climb up and down to/from the decked areas inside the scaffolding.
- Materials may only be transported up and down inside the scaffolding.
- The use of lifting equipment is impermissible.
- Work may only be carried out from one of several decked areas at any one time.
- It is forbidden to jump on decked areas.
- When working, the user may not lean against the railing for support.
- Unscheduled loads may damage the scaffolding or result in it overturning.
- After any assembly and modification work as well as after each movement of the scaffolding, the correct assembly and the secure fit of all components as well as the proper vertical alignment of the scaffolding need to be ensured.
- Damaged, faulty or incorrectly fitted components may never be used and are to be exchanged against original spare parts.
- Only components from the manufacturer Rux may be used.
- In the event of an imminent storm greater than wind force 6 – noticeable with a perceivable difficulty when walking, the working platform is to be left and moved to a calmer location or otherwise secured against overturning and displacement.

- When not in use for a temporary period, the mobile working platform is to be secured against unauthorised use, overturning and displacement and moved to a windless location. The castors are to be locked down and the telescopic arms extended. The base jacks must be firmly located on the ground, similar to when in operational mode.

- The vertical clearance between each of the decked levels may not exceed 4.00 m. The vertical clearance between the lowest decked area and the installation surface area may not be more than 4.60 m.

- It is impermissible to increase the height of the decked area by using ladders, boxes or similar.

As a manufacturer of mobile working platforms, we would recommend fitting decked areas (platform with trapdoor) at a vertical clearance of 2.00 m. In this respect, the trapdoors in the platforms are to be arranged so as to be offset to one another. This will mean that the requirements of the DIN EN 1004 relating to material transport and access can be simply satisfied without any additional measures. Using the scaffolding becomes less strenuous, safer and more convenient.

**Classification and technical data**

In the case of the mobile scaffold Mobilo 1400, it is a mobile working platform pursuant to DIN EN 1004:2005 with the following technical data:

- Scaffold length : 2.60 m
- Scaffold width : 1.40 m
- Loading capacity : 200 kg/m², Load Class 3
- Standing height : 2.50 to 12.70 m inside buildings
- : 2.50 to 8.70 m outside buildings

Classification : Mobile working platform DIN EN 1004 3 8/12 XXCD
System description

Components and designations

③ Cotter pin:
## Parts lists / Working heights / Ballast weights

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### Ballast weights for use without any chassis beams

| Art.-Nr. | Ballast weight 15 kg | 0 | 0 | 3 | 1 | 9 | 5 | 10 | 5 | 17 | 9 | 17 | 12 | 28 | 16 | 28 |
|----------|----------------------|---|---|---|---|---|---|----|----|----|---|----|----|----|----|----|----|
| 02555    |                      | 0 | 0 | 3 | 1 | 9 | 5 | 10 | 5 | 17 | 9 | 17 | 12 | 28 | 16 | 28 |

### Ballast weights for use with chassis beams (without telescopic arms)

| Art.-Nr. | Ballast weight 15 kg | 0 | 0 | 3 | 1 | 9 | 5 | 10 | 5 | 17 | 9 | 17 | 12 | 28 | 16 | 28 |
|----------|----------------------|---|---|---|---|---|---|----|----|----|---|----|----|----|----|----|----|
| 02555    |                      | - | - | - | - | - | - | -   | 2 | 2 | 3 | 5 | 8 |    |    |    |    |

### No ballast is necessary for use with chassis beams with fully extended telescopic arms

<table>
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<tr>
<th>Art.-Nr.</th>
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Permissible working heights for mobile working platforms:

- 4.50 to 14.00 m inside buildings
- 4.50 to 10.00 m outside buildings
Assembly and disassembly

The following steps need to be observed for the assembly and disassembly of the mobile working platform.

1. Assembly of the base unit consists of:

4 castors
2 aluminium guardrails 2600
1 aluminium H diagonal 1400

Additionally, depending on the installation height and fittings:

2 chassis beams 1800
4 telescopic arms for the chassis beams and ballast weights, number as per Table on page 6.

Should no chassis beams be used, the castors are to be inserted directly into the slip-on ladders. Ballast weights are to be located as low as possible on the scaffolding and positioned in such a way that the ballast does not touch the ground and that the centre of gravity of the ballast is at the central point of the scaffolding.

The aluminium guardrails 2600 are then fitted to the lowermost rung of the slip-on ladder.

The aluminium H diagonal 1400 is fitted directly above the lowermost rung.

When assembling the guardrails and diagonals, attention needs to be paid that the spring-operated securing levers on the supporting brackets lock, thus ensuring a secure fit.

Fundamentally, the base frame out of guardrails and horizontal diagonals needs to be fitted for working applications. When the scaffolding is to be moved, these parts may only be temporarily raised to the fourth rung on the lowermost slip-on ladder to enable obstacles such as work benches to be circumvented.

2. Assembly of the lowermost slip-on ladder:

Attach 2 aluminium slip-on ladders 2000/1400 to the chassis beams.
Attach 4 cotter pins to secure the slip-on ladders.
3. **Assembly of the diagonals:**

Fit 2 aluminium V diagonals 3100 to the lowermost rung.

Align the base unit with the slip-on ladders so as to be perpendicular and horizontal (inclination less than 1 %).

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4. **Assembly of the aluminium guardrails 2600:**

Fit 2 aluminium guardrails 2600 to the uppermost slip-on ladder rung.
5. Assembly of the first working platform:

Fit 1 working platform 2600/800 with trapdoor and 1 platform without trapdoor to the fourth rung of the slip-on ladder and secure against lift-off.

The previously fitted aluminium guardrail 2600 is now located 1.00 m (4 rungs) above the working platform. When accessing the working platform, a guardrail pair can then be found 1.00 m above the decked area, as stipulated in the relevant requirements.

6. Assembly of the other slip-on ladders:

Attach 1 aluminium slip-on ladder 2000/1400
For lower assembly heights, use the aluminium slip-on ladder 1000/1400 as the upper end.
Attach 4 cotter pins to secure the slip-on ladders.
7. Assembly of the other diagonals:

Insert 2 aluminium V diagonals 3100, each one rung above the diagonal lying below it.

8. Assembly of the next guardrail:

Insert 2 aluminium guardrails 2600 2.00 m (8 rungs) above the decked area.
9. Using assembly aids:

To assemble the next, higher guardrail it is necessary for the fitter to find a secure place to stand 1.00 m above the decked surface.

To this end:

Hook 1 aluminium ladder 2100 with hooks on to the rung of the slip-on ladder 2.00 m (8 rungs) above the decked surface.

Instead of the inclined ladder, other assembly aids can also be used when they create a secure place to stand.

10. Assembly of the next higher guardrail:

Insert 2 aluminium guardrails 2600 3.00 m (12 rungs) above the decked area.

In this respect, the fitter has to ascend in such a way that she/he is secured at all times by an already assembled guardrail pair at a height of at least 1.00 m above her/his standing height.
11. Assembly of the next working platform:

Fit 1 working platform 2600/800 with trapdoor and 1 platform without trapdoor 2.00 m (8 rungs) above the previous working platform and secure against lift-off.

The previously assembled guardrails at the position of the working platform are then disassembled. The previously used inclined ladder with hooks is disassembled or depending on the needs, left in its position.

Assembly of other structural parts:

For the assembly of other component parts, the previously described steps 6-11 are repeated analogously, but at a greater height level.

Attach 1 aluminium slip-on ladder 2000/1400. For lower assembly heights, use the aluminium slip-on ladder 1000/1400 as the upper end. Attach 4 cotter pins to secure the slip-on ladders. Insert 2 aluminium V diagonals 3100, each one rung above the diagonal lying below it. Insert 2 aluminium guardrails 2600 2.00 m (8 rungs) above the decked area. Insert 2 aluminium guardrails 2600 3.00 m (12 rungs) above the decked area.

In this respect, the fitter has to ascend in such a way that she/he is secured at all times by an already assembled guardrail pair at a height of at least 1.00 m above her/his standing height.
12. Completion of further structural units:

Fit 1 working platform 2600/800 with trapdoor and 1 platform without trapdoor 2.00 m (8 rungs) above the previous working platform and secure against lift-off.

The previously assembled guardrails at the position of the working platform are then disassembled.

The previously used inclined ladder with hooks is disassembled or depending on the needs, left in its position.

**Attention!**
- The lowermost working platform may not be more than 4.60 m above the installation surface area!
- The vertical clearance between working platforms may not exceed 4.00 m.
- Depending on the type of work to be carried out, it may be meaningful to assemble the working platforms at intervals of 2.00 m.

13. Assembly of the working platforms side protection:

Insert 2 aluminium guardrails 2600 0.50 m (2 rungs) above the decked area.

Insert 2 wooden longitudinal toe boards 2600.

Insert 2 wooden transverse toe boards 1400.
14. Assembly of the side protection intermediate platforms:

Insert 2 aluminium guardrails 2600 0.50 m (2 rungs) above the decked area.

Attention!

Every decked area that is to serve as a working section has to be secured to all sides with a three-tier protective system consisting of handrail, knee rail and toe board. Every decked area that is to serve as a traffic section has to be secured with at least two guardrail pairs against the risk of falling.

Only for the assembly and disassembly may the securing of the scaffolding be effected at only 1.00 m above the decked area (without any intermediate rails at 0.50 m above the decked area).

15. Additional measures:

If work is being carried out on various working platforms, all working platforms – being used as working sections – need to be secured on all four sides with a three-tier protective system consisting of handrail, knee rail and toe board.

The use of inclined ladders for ascent conserves energy and enhances safety when climbing up. Inclined ladders are not compulsory for every type of work that has to be carried out.

Depending on the scope of the assignment and the requirements, it might be meaningful to fit a working platform with trapdoor at intervals of maximum 2.00 m.
16. Disassembly work:
The disassembly of all scaffolding components takes place in reversed order. It is therefore necessary when disassembling to fit working platforms 2.00 m below the uppermost decked area in order to dismantle safely. The same safety-relevant requirements and regulations applicable for the assembly work are also valid for all disassembly and modification work and for all intermediate situations resulting from them.

We wish you every possible success in the use of products from our company.

Information on inspection, maintenance, care and transportation

All components of the Mobilo mobile scaffolds are designed to be maintenance-free and require no special care and attention when used normally. The component parts are checked visually and, additionally, all movable parts are checked for their function. Any dirt, which impairs the function, is to be removed immediately. Overstressing of any of the components during transportation is impermissible. Overstressing as a result of e.g. throwing, improper fork-lift transportations, excessive tightening of tensioning straps on vehicles may result in a deformation of the components. Scaffolding floors out of wooden materials are to be stored in a dry and well-aired place. The wood is to be kept so as not to rot and be affected by mould build-up as it would then lose its load-bearing capability.

Deformed or non-functioning components as well as imperfect parts out of wooden elements are to be sorted out and prevented from being used again.