

## Layher Uni Wide Tower Instructions for Assembly and Use

**Mobile working platforms**  
according to DIN EN 1004:2005-03

Working platform 1.5 x 2.85 m

max. working height:  
indoors 13.6 m  
outdoors 9.6 m

Load bearing capacity 2.0 kN/m<sup>2</sup>  
on max. one working level  
(scaffold group 3 as per DIN EN 1004:2005-03)



Layher® 

More Possibilities. The Scaffolding System.

# Tower Types without ladder access

Layher Uni Wide Tower

For **outdoor use** observe height limits.

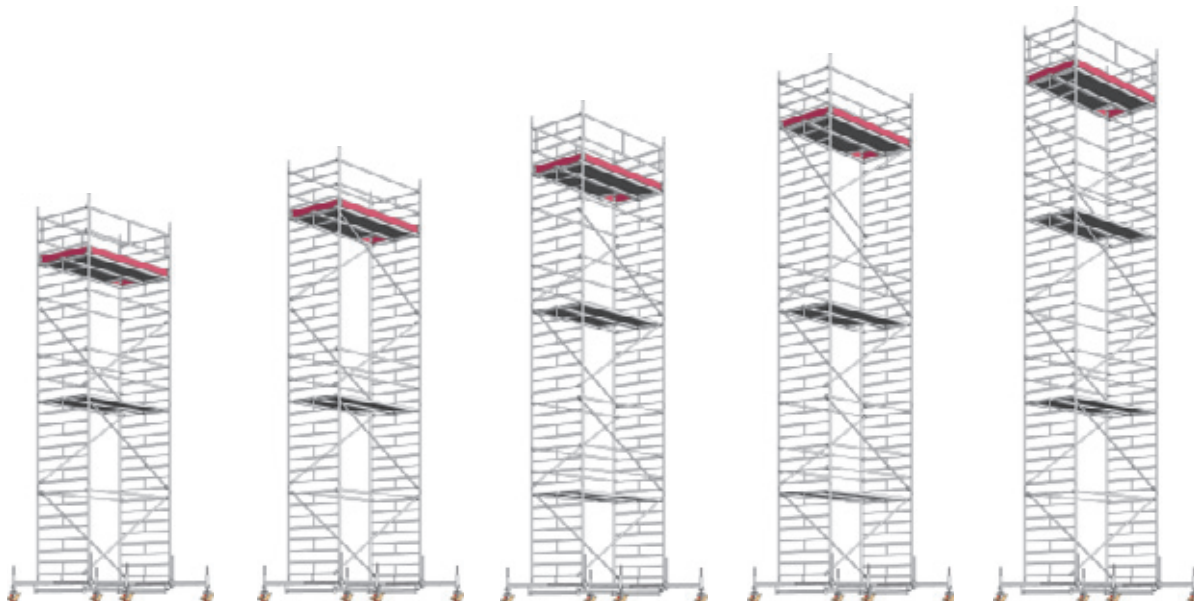
## Tower Models 2101– 2106



Tower Model	2101	2102	2103	2104	2105	2106
Working height (m)	3.5	4.5	5.5	6.5	7.5	8.5
Scaffold height <sup>1)</sup> (m)	2.6 (2.45)	3.6 (3.45)	4.6 (4.45)	5.6 (5.45)	6.6 (6.45)	7.79 (7.64)
Platform height (m)	1.5	2.5	3.5	4.5	5.5	6.6
Weight (kg) [without ballast]	114.2	164.3	178.9	199.9	277.7	379.3

<sup>1)</sup> Values in brackets: minimum tower height incl. spigots.

## Tower Models 2107– 2111



Tower Model	2107	2108	2109	2110	2111
Working height (m)	9.6	10.6	11.6	12.6	13.6
Scaffold height <sup>1)</sup> (m)	8.79 (8.64)	9.79 (9.64)	10.79 (10.64)	11.79 (11.64)	12.79 (12.64)
Platform height (m)	7.6	8.6	9.6	10.6	11.6
Weight (kg) [without ballast]	408.3	422.1	499.9	513.7	542.7

<sup>1)</sup> Values in brackets: minimum tower height incl. spigots.

# Tower Types with stabilizers, extendable

Layer Uni Wide Tower

For **outdoor use** observe height limits.

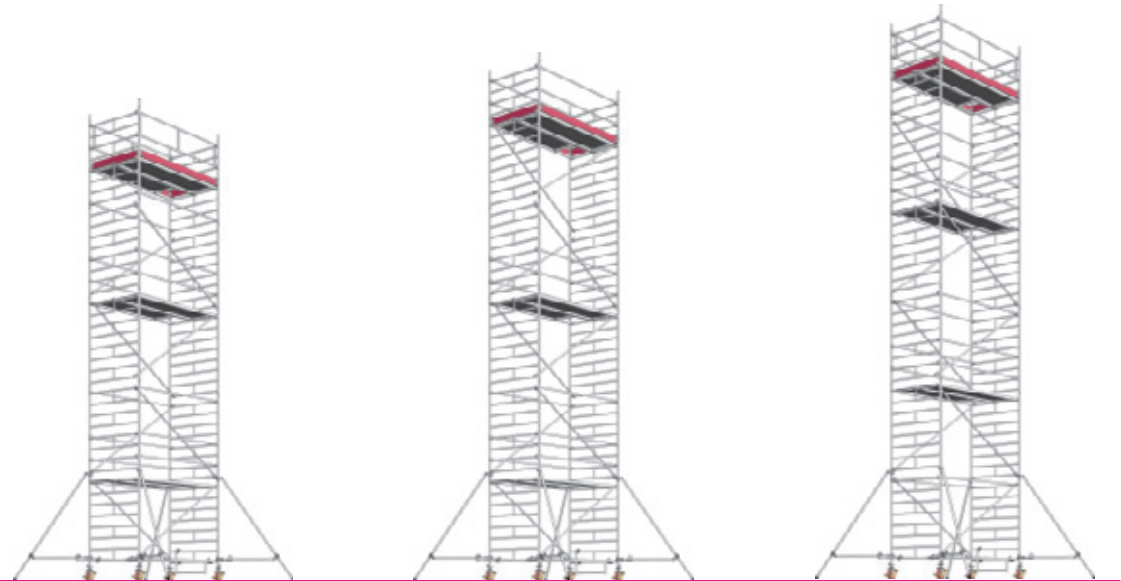
## Tower Models 2126 – 2128



Tower Model	2126	2127	2128
Working height (m)	8.5	9.5	10.5
Scaffold height <sup>1)</sup> (m)	7.7 (7.45)	8.7 (8.45)	9.7 (9.45)
Platform height (m)	6.5	7.5	8.5
Weight (kg) [without ballast]	336.7	365.7	379.5

<sup>1)</sup> Values in brackets: minimum tower height incl. spigots.

## Tower Models 2129 – 2131



Tower Model	2129	2130	2131
Working height (m)	11.5	12.5	13.5
Scaffold height <sup>1)</sup> (m)	10.7 (10.45)	11.7 (11.45)	12.7 (12.45)
Platform height (m)	9.5	10.5	11.5
Weight (kg) [without ballast]	457.3	471.1	500.1

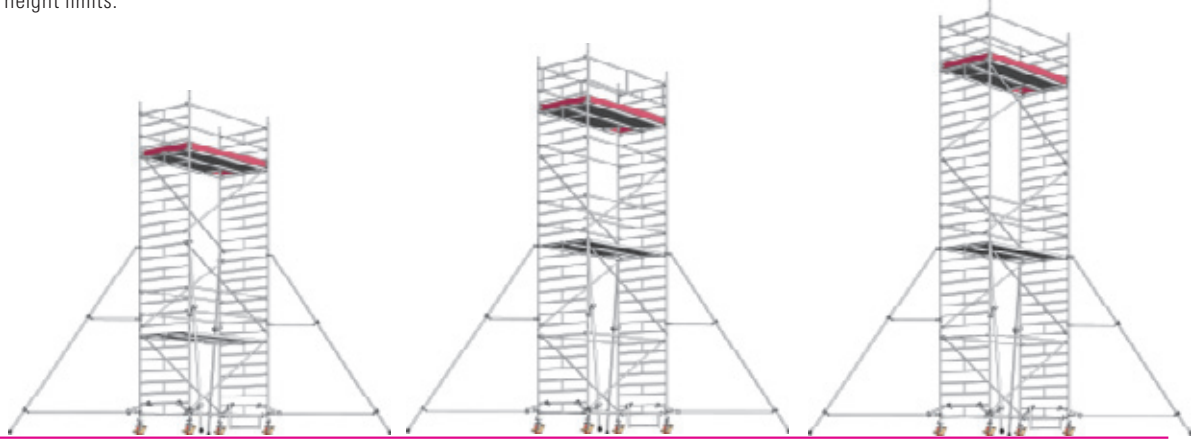
<sup>1)</sup> Values in brackets: minimum tower height incl. spigots.




# Tower Types with stabilizers, 5 m

Layher Uni Wide Tower

For **outdoor use** observe height limits.

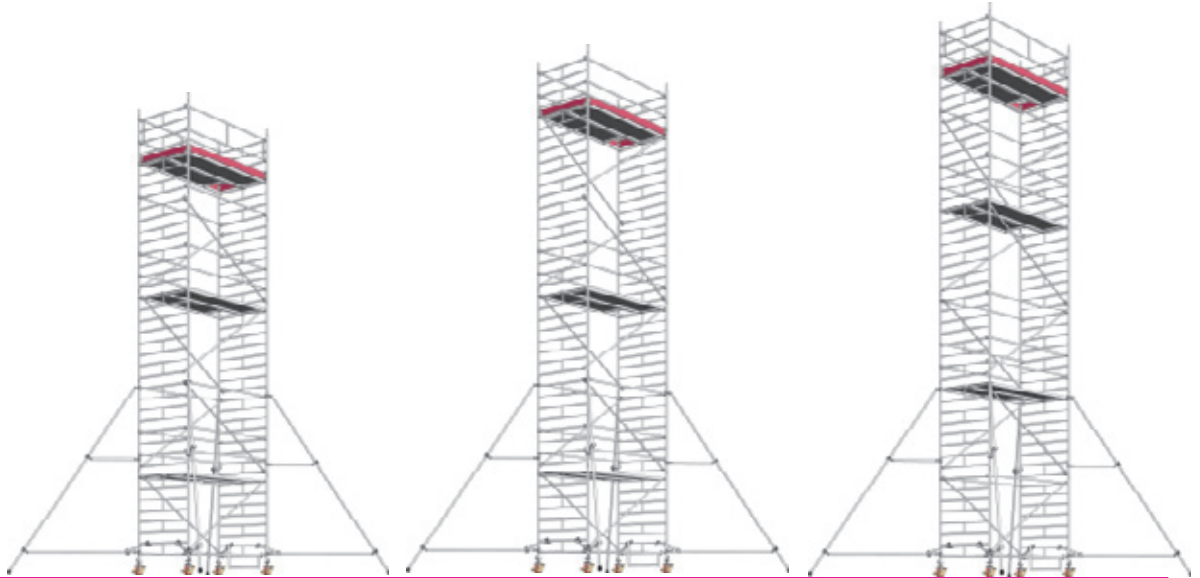
## Tower Models 2146 – 2148






Tower Model	2146	2147	2148
Working height (m) → 	8.5	9.5	10.5
Scaffold height <sup>1)</sup> (m) → 	7.7 (7.45)	8.7 (8.45)	9.7 (9.45)
Platform height (m) → 	6.5	7.5	8.5
Weight (kg) [without ballast]	368.7	397.7	411.5

<sup>1)</sup> Values in brackets: minimum tower height incl. spigots

## Tower Models 2249 – 2251



Tower Model	2149	2150	2151
Working height (m) → 	11.5	12.5	13.5
Scaffold height <sup>1)</sup> (m) → 	10.7 (10.45)	11.7 (11.45)	12.7 (12.45)
Platform height (m) → 	9.5	10.5	11.5
Weight (kg) [without ballast]	489.3	503.1	532.1

<sup>1)</sup> Values in brackets: minimum tower height incl. spigots

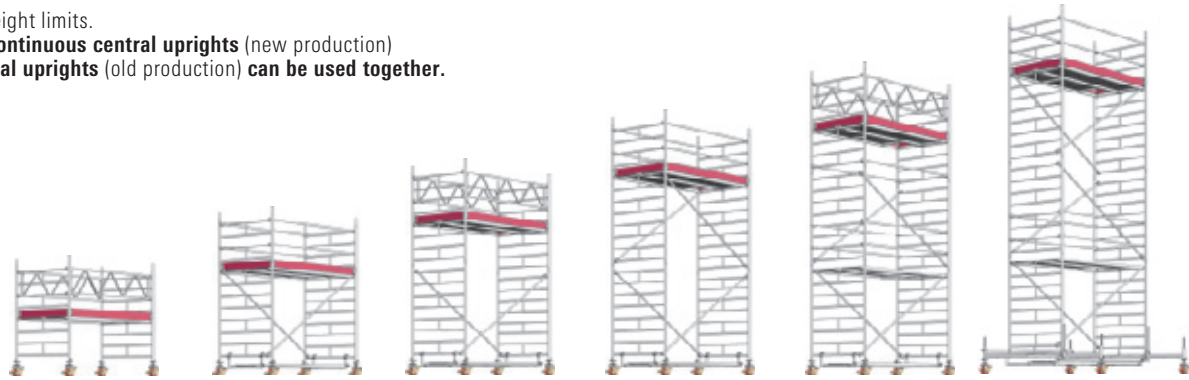
# Tower Types without ladder access

Layher Uni Wide Tower

For **outdoor use** observe height limits.

**Ladder frames with non-continuous central uprights** (new production)  
and **with continuous central uprights** (old production) **can be used together**.

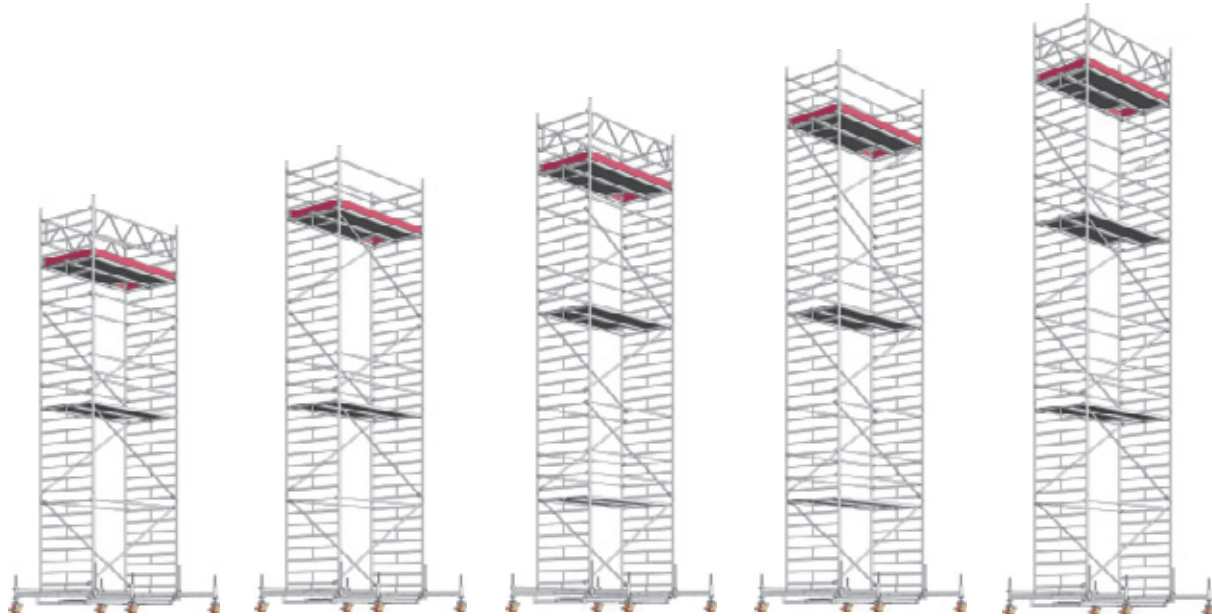
## Tower Models 2201– 2206



Tower Model	2201	2202	2203	2204	2205	2206
Working height (m)	3.5	4.5	5.5	6.5	7.5	8.7
Scaffold height <sup>1)</sup> (m)	2.70 (2.45)	3.70 (3.45)	4.70 (4.45)	5.70 (5.45)	6.70 (6.45)	7.89 (7.64)
Platform height (m)	1.5	2.5	3.5	4.5	5.5	6.7
Weight (kg) [without ballast]	134.4	190.1	207.9	225.7	306.7	414.30

<sup>1)</sup> Values in brackets: minimum tower height incl. spigots

## Tower Models 2207– 2211



Tower Model	2207	2208	2209	2210	2211
Working height (m)	9.7	10.7	11.7	12.7	13.7
Scaffold height <sup>1)</sup> (m)	8.89 (8.64)	9.89 (9.64)	10.89 (10.64)	11.89 (11.64)	12.89 (12.64)
Platform height (m)	7.7	8.7	9.7	10.7	11.7
Weight (kg) [without ballast]	440.1	450.7	531.7	542.3	574.50

<sup>1)</sup> Values in brackets: minimum tower height incl. spigots

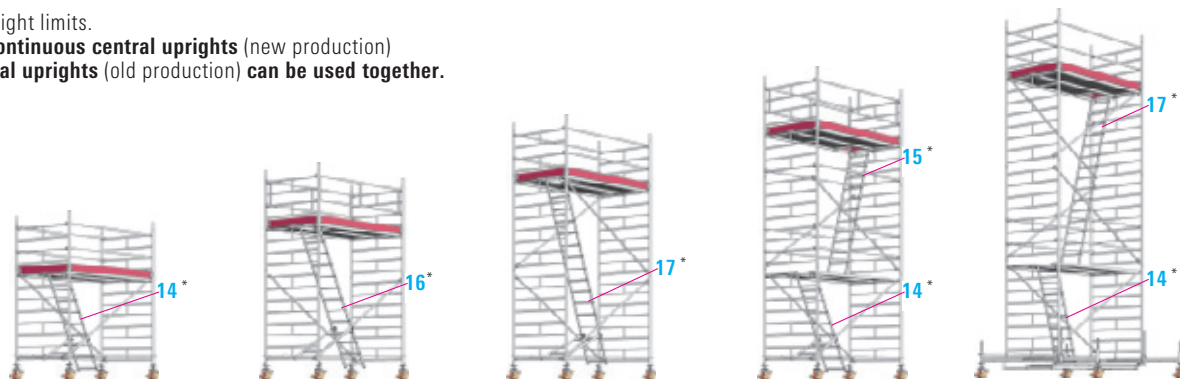
# Tower Types with ladder access

Layher Uni Wide Tower

For **outdoor use** observe height limits.

**Ladder frames with non-continuous central uprights** (new production)  
and **with continuous central uprights** (old production) **can be used together**.

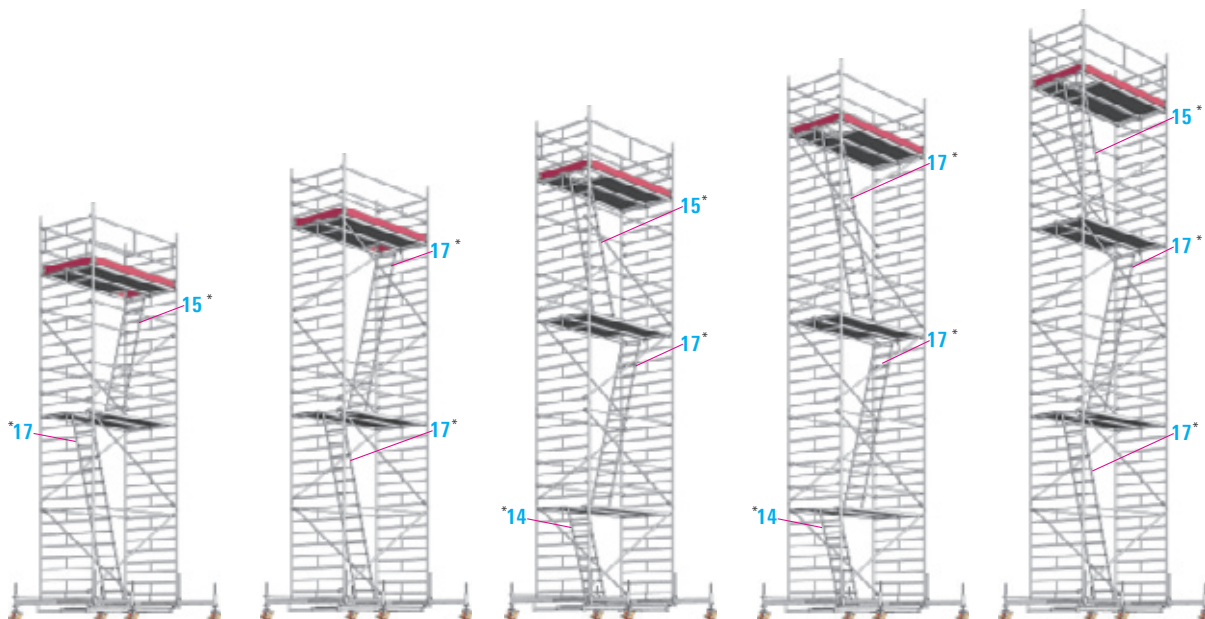
## Tower Models 2302 – 2306



Tower Model	2302	2303	2304	2305	2306
Working height (m)	4.5	5.5	6.5	7.5	8.7
Scaffold height <sup>1)</sup> (m)	3.70 (3.45)	4.70 (4.45)	5.70 (5.45)	6.70 (6.45)	7.89 (7.64)
Platform height (m)	2.5	3.5	4.5	5.5	6.7
Weight (kg) [without ballast]	174.8	194.6	214.5	292.8	426.6

<sup>1)</sup> Values in brackets: minimum tower height incl. spigots. \* mount the ladders and ladder supports according to page 22 (components).

## Tower Models 2307 – 2311



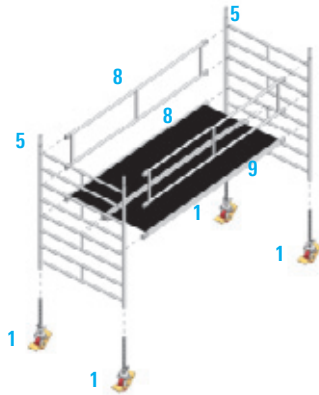
Tower Model	2307	2308	2309	2310	2311
Working height (m)	9.7	10.7	11.7	12.7	13.7
Scaffold height <sup>1)</sup> (m)	8.89 (8.64)	9.89 (9.64)	10.89 (10.64)	11.89 (11.64)	12.89 (12.64)
Platform height (m)	7.7	8.7	9.7	10.7	11.7
Weight (kg) [without ballast]	459.3	472.7	551.8	565.2	597.9

<sup>1)</sup> Values in brackets: minimum tower height incl. spigots. \* mount the ladders and ladder supports according to page 22 (components).

# Assembly

►1 Observe the general instructions for assembly and use on page 32. The examples of assembly shown for tower models 2108 – 2111, 2128 – 2131, 2148 – 2151, 2208 – 2211 and 2308 – 2311 (see pages 2 – 6) are intended for use indoors and enclosed on all sides. In accordance with the regulations as amended with effect from 1 January 1987, the platform height outdoors is **max. 8 m**. The material and ballast tables on pages 14 – 16 must be complied with.

## ►2 Tower Model 2101 without ladders



1. With tower 2101, the castors **1** are inserted into the ladder frames **5** and secured against falling out by fastening the wing screws on the spindle nuts.

2. Connect the two ladder frames **5** using 2 rolling tower double rear guard rails **8**, in so doing stiffening them. Then suspend 2 decks **9** in the 4th-from-below rungs of the ladder frames **5**.

The snap-on claws of all parts must here be snapped on from above into the ladder frames **5**.  
The horizontal clearance between the decks must not exceed 25 mm.

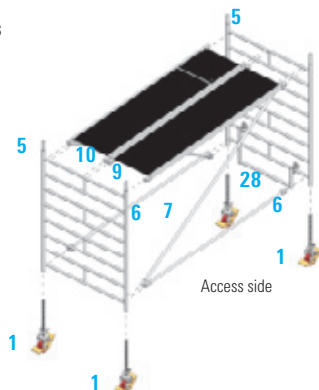
3. A three-part side protection must be fitted if required by the regulations applicable for the specific work being performed.

**To lift out the individual parts, open the snap-on claws by pressing their locking clips. The red locking clips of the decks permit effortless installation and removal by a single person; first open them and place the deck with the opened clips on the rung, then open the opposite clips and lift out the deck.**

Level the tower using the threaded spindles.

## ►3 Assembly of the bottom working platform

### ►3.1 Tower Models 2102 – 2105



1. The castors **1** are inserted into the ladder frames **5** and secured against falling out by fastening the wing screws on the spindle nuts.

2. Bolt an access ledge **28** to the centre of the ladder frames **5**. Suspend rear guard rails **6** and diagonal braces **7** from the bottom rung of the ladder frame. Fit a deck **9** and an access deck **10** in accordance with the general drawings (see page 2).  
The horizontal clearance between the decks must not exceed 25 mm.

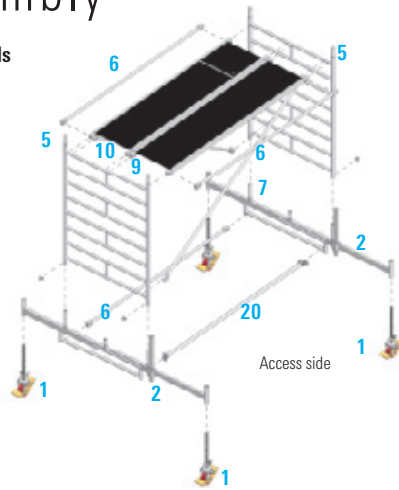
**After engagement, push the rear guard rails **6** and diagonal braces **7** as far outwards as possible.**

Level the tower using the threaded spindles.

Further assembly of tower models 2102 to 2105 as per section 6.

# Assembly

## ►3.2 Tower Models 2106 – 2111 2112, 2113 2114, 2115

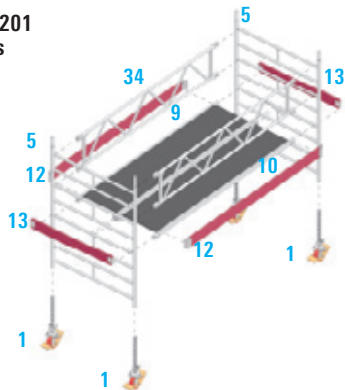


1. The castors **1** are inserted into the mobile beam **2** and secured against falling out by fastening the wing screws on the spindle nuts.
2. Then clamp the base strut **20** to the leg of the mobile beam support **2** and suspend a rear guard rail **6** from the mobile beam support. Fit ladder frames **5** onto the mobile beams **2** and secure them with spring clips **11**.

3. Fit diagonal braces **7**, deck **9** and access deck **10** or rear guard rails **6** in accordance with the general drawings (see page 2 + 3). The horizontal clearance between the decks must not exceed 25 mm. **After installation, push the rear guard rails **6** and diagonal braces **7** as far outwards as possible (see assembly drawings, page 2).**

## Layer Uni Wide Tower

## ►4 Tower Model 2201 without ladders



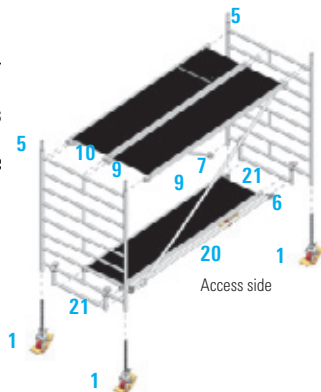
1. With tower 2201, the castors **1** are inserted into the ladder frames **5** and secured against falling out by fastening the wing screws on the spindle nuts.
2. Connect the two ladder frames **5** using 2 beams, 2.85 m **34**, in so doing stiffening them. Then suspend 2 decks **9** in the 4th-from-below rungs of the ladder frames **5**. The snap-on claws of all parts must here be snapped on from above into the ladder frames **5**. The horizontal clearance between the decks must not exceed 25 mm.
3. Installation of toe boards: First position the toe boards 2.85 m **12** inside the ladder frames **5** and stabilize them by inserting the end toe boards, 1.44 m **13**.

**To lift out the individual parts, open the snap-on claws by pressing their locking clips. The red locking clips of the decks permit effortless installation and removal by a single person; first open them and place the deck with the opened clips on the rung, then open the opposite clips and lift out the deck.**

Level the tower using the threaded spindles.

## ►5 Assembly of the working platform

### ►5.1 Tower Models 2202 – 2205 without ladder:



1. The castors **1** are inserted into the ladder frames **5** and secured against falling out by fastening the wing screws on the spindle nuts.
2. The deck supports **21** are bolted centrally to the ladder frames **5**, deck **9** and diagonal braces **7** are suspended. Ensure that the deck **9** is installed underneath the access deck **10**. Then the base strut **20** is clamped on the deck support **21**.

Fit a deck **9** and an access deck **10** in accordance with the general drawings (see page 3). The horizontal clearance between the decks must not exceed 25 mm.

**After engagement, push the rear guard rails **6** and diagonal braces **7** as far outwards as possible.**

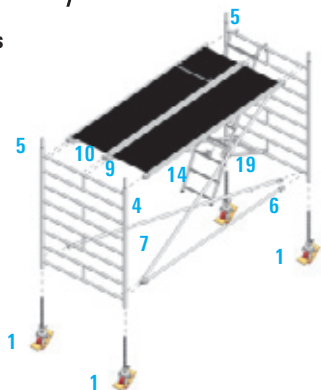
Level the tower using the threaded spindles.

Further assembly of tower models 2202 to 2205 as per section 6.



# Assembly

## ►5.2 Tower Models 2302 – 2305 with ladders



1. The castors **1** are inserted into the ladder frames **5** and secured against falling out by fastening the wing screws on the spindle nuts.

2. The diagonal braces **7** are snapped into the ladder frames **5** and the adjustable plan brace **4** is suspended. Suspend the rear guard rail **6** from the ladder frames **5**. Fit a deck **9** and an access deck **10** in accordance with the general drawings (see page 4). The horizontal clearance between the decks must not exceed 25 mm. Then fit a ladder with suspension hooks **14**, **16** or **17** with the appropriate double ladder support **18** or **19** (see page 22, Components and page 4, General drawings). The double ladder support **18** or **19** (see page 22, Components) is suspended from the bottom rung

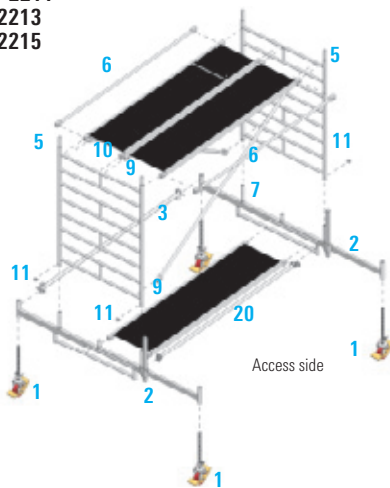
of the ladder frame **5** and fastened using the clamp coupler between the 2nd and 3rd suspension ladder rungs.

**After engagement, push the rear guard rails **6** and diagonal braces **7** as far outwards as possible.**

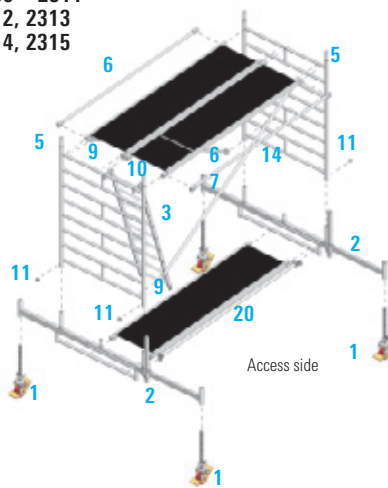
Level the tower using the threaded spindles.

Further assembly of tower models 2302 to 2305 as per section 6.

## ►5.3 Tower Models without ladders 2206 – 2211 2212, 2213 2214, 2215



## Tower Models with ladders 2306 – 2311 2312, 2313 2314, 2315



1. The castors **1** are inserted into the mobile beam **2** and secured against falling out by fastening the wing screws on the spindle nuts.

2. Fit the basic tube **3** at the mobile beam end **2** and wedge it tight after aligning it. Then clamp the base strut **20** to the leg of the mobile beam support **2** and suspend a deck **9** from the mobile beam support **2**. Fit ladder frames **5** onto the mobile beams and secure them with spring clips **11**.

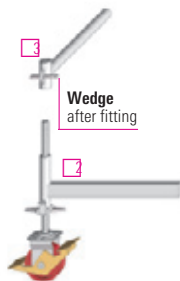
3. Fit diagonal braces **7**, deck **9** and access deck **10** or rear guard rails **6** in accordance with the general drawings (see page 2 + 4). Ensure that the deck **9** is underneath the access deck **10**.

The horizontal clearance between the decks must not exceed 25 mm. After installation, push the rear guard rails **6** and diagonal braces **7** as far outwards as possible (see assembly drawings, pages 2 + 4).

4. Only for tower models with ladders. Suspend the ladders **14**, **17** in ladder frame **5** (see also assembly drawing on page 4).

The tower models 2212, 2213, 2214, 2215, 2312, 2313, 2314 and 2315 are equipped with adjustable mobile beams **2** for use outdoors. Level the tower using the threaded spindles.

For further assembly see section 6.



# Assembly

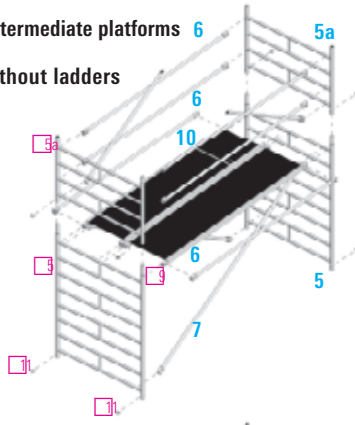
## Layher Uni Wide Tower

### ►6 Assembly of the intermediate platforms 6

#### Tower Models without ladders

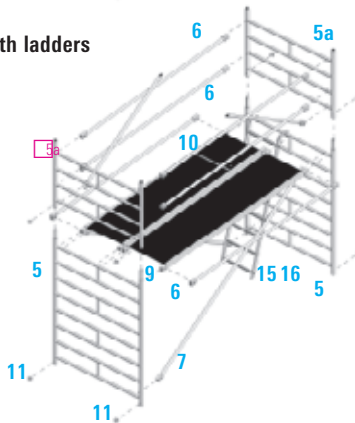
2102 – 2111  
2112, 2113  
2114, 2115

2202 – 2211  
2212, 2213  
2214, 2215



#### Tower Models with ladders

2302 – 2311  
2312, 2313  
2314, 2315



During assembly and dismantling, system decks or scaffolding planks to DIN 4420 (minimum dimensions: 28 x 4.5 x 350 cm long) must be installed as auxiliary decks at maximum height intervals of 2.0 m. These auxiliary decks, providing a safe footing for assembly and dismantling, must be removed again after assembly. Each platform must be completely decked.

1. Assembly is continued by fitting ladder frames 5 and stiffening using 2 diagonal braces 7 and rear guard rails 6 in accordance with the general drawings (see pages 3 – 4). Secure the joints of the ladder frames 5 using spring clips 11.

2. Install intermediate platforms, each comprising 1 deck 9 and 1 access deck 10 at height intervals of max. 4 m. If these platforms are only used as intermediate platforms for ascent, it is sufficient to install 2 rear guard rails 6 for each side as a side protection. In the case of use as a working platform, install 2 rear guard rails per side plus toe boards (see Section 7). The top working level or another working level must not be used in this case. The toe boards there must be removed.

After installation, push the rear guard rails 6 and diagonal braces 7 as far outwards as possible. The horizontal clearance between the decks must not exceed 25 mm.

3. When assembling the tower, ensure without fail that the diagonal braces 7, decks 9, 10 and rear guard rails 6 are installed in the correct arrangement (see general drawings, pages 3 – 4). The next-up ladder frames 5 must not be fitted here until the ladder frames 5 underneath them have been stiffened accordingly.

4. In the case of tower models 2305 – 2311 with ladders, snap in suspension ladders 15, 17. During assembly, snap in the suspension ladders 15 or 17 after installing deck 9 and access deck 10 (see general drawing, page 4). The horizontal clearance between the decks must not exceed 25 mm.

5. During dismantling, do not remove the appropriate diagonal braces 7 and stiffening elements 6, 7 until the ladder frames 5 above them have been dismantled.

For further assembly see section 7.

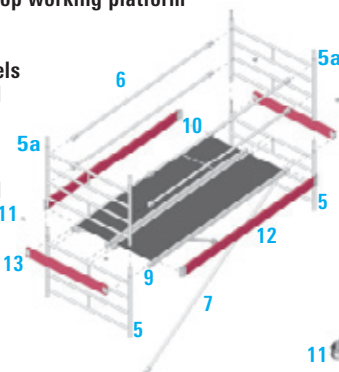
### ►7 Assembly of the top working platform

#### ►7.1

#### Tower Models

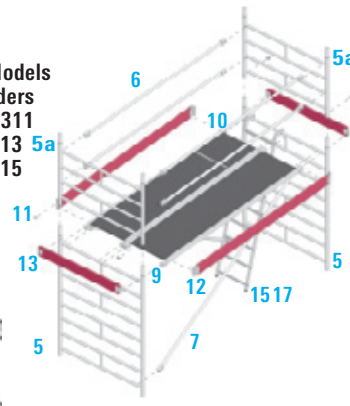
2102 – 2111  
2112, 2113  
2114, 2115

2202 – 2211  
2212, 2213 11  
2214, 2215



#### Tower Models with ladders

2302 – 2311  
2312, 2313 5a  
2314, 2315



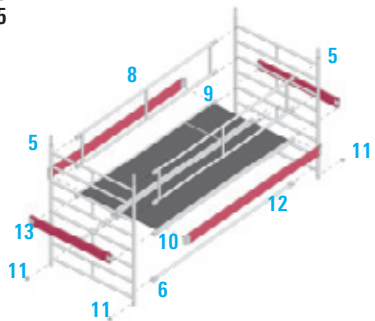
After fitting the top ladder frames 5 or 5a and securing them with spring clips 11 (always fit spring clips at deck level from the inside towards the outside, see detail), suspend an access deck 10 and a deck 9 into the 5th rung from the top. The regulation side protection to match the tower model is made by installing 4 rear guard rails 6 (see pages 3 + 4). Position the 2 toe boards 2.85 m 12 between the ladder frames 5 and secure them by inserting end toe boards, 1.44 m 13.

In the assembly form using inclined ladders 14 to 17, suspend them in accordance with the general drawings (see page 4).

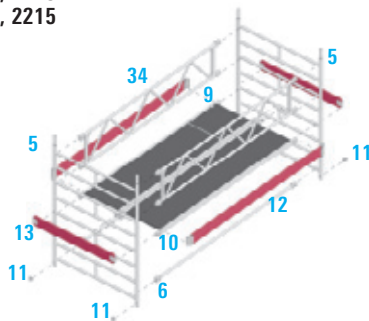
After engagement, push the diagonal braces 7 and the rear guard rails 6, 8 and as far outwards as possible! The horizontal clearance between the decks must not exceed 25 mm.

# Assembly

## ►7.2 Tower Models 2102 – 2111 2112, 2113 2114, 2115



## Tower Models 2202 – 2211 2212, 2213 2214, 2215

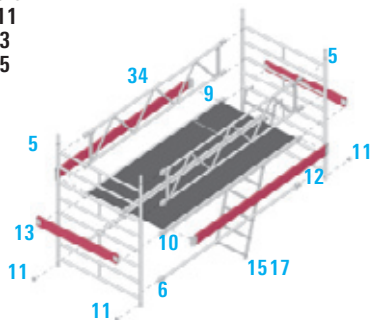


After fitting the top ladder frames **5** or **5a** and securing them with spring clips **11**, suspend an access deck **10** and a deck **9** into the 5th rung from the top. The regulation side protection to match the tower model is made by installing 2 double rear guard rails **8** or 2 beams, 2.85 m **34** (see pages 2 – 4). Position the 2 toe boards 2.85 m **12** between the ladder frames **5** and secure them by inserting end toe boards, 1.44 m **13**.

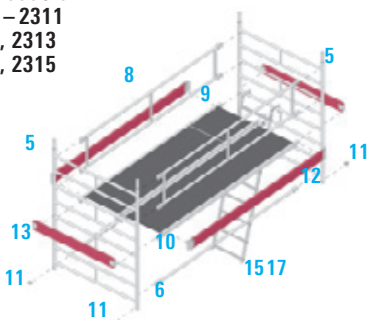
In the assembly form using inclined ladders **14** to **17**, suspend them in accordance with the general drawings (see page 4).

**After engagement, push the diagonal braces **7** and the rear guard rails **6**, **8** and as far outwards as possible!** The horizontal clearance between the decks must not exceed 25 mm.

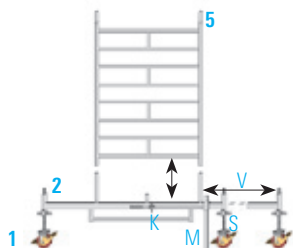
## ►7.3 Tower Models with ladders 2302 – 2311 2312, 2313 2314, 2315



## Tower Models with ladders 2302 – 2311 2312, 2313 2314, 2315



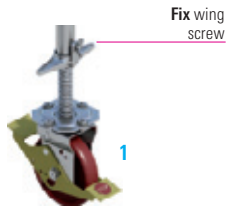
## ►8 Adjusting the mobile beams



The adjustable mobile beam **2** permits working up against the wall. It can be slid in and out in the assembled state. It must always be ensured before adjustment that the ballast weights specified in the ballast table are fitted in the right places (see page 16). For adjustment in the assembled state, lower the middle support (M) attached to the mobile beam **2** as far as possible and then secure it. The load is taken off the castors at the sliding parts by turning the spindle (S) until the adjustment part (V) can be adjusted following release of the clamping wedge (K).

After adjustment, fix the clamping wedge (K), put load back on the castor by turning the spindle, raise the middle support (M) and secure it.

## ►9 Operating the castors

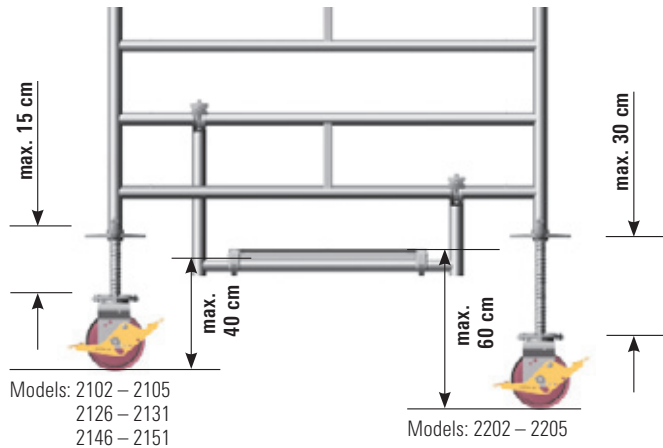


During assembly and while working, the castors **1** must be kept locked by pressing down the brake lever labelled STOP. When the brake is locked, the lever labelled STOP is in the down position.

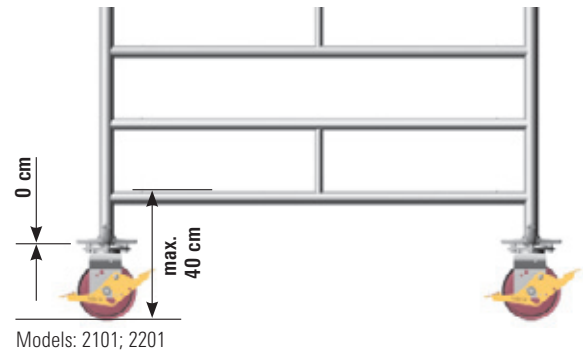
For movement, the castors **1** are unlocked by pushing the other lever down.

## ►10 Maximum spindle adjustment of the various models

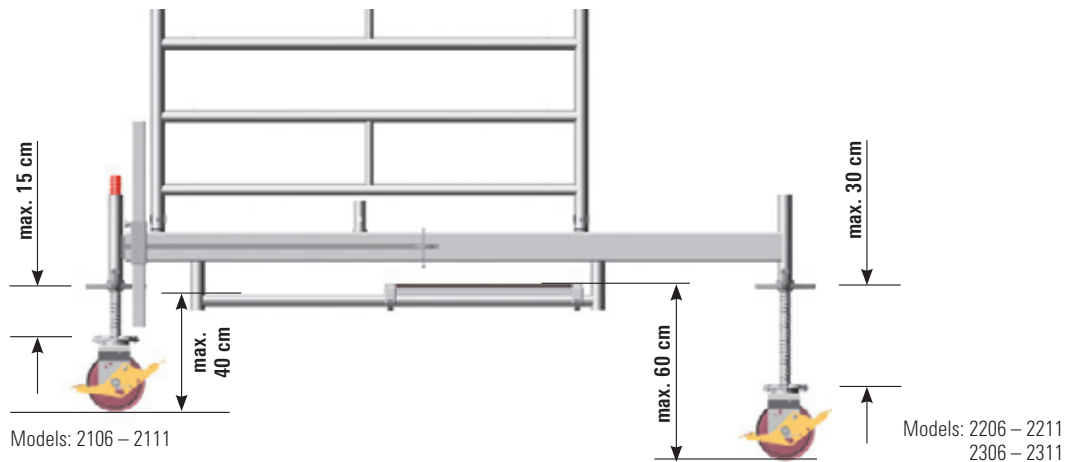
### Construction directly on castors with access ledger



### Construction directly on castors

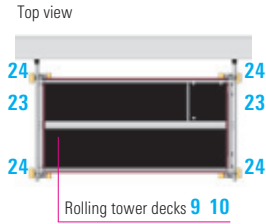


### Assembly with 1323.320



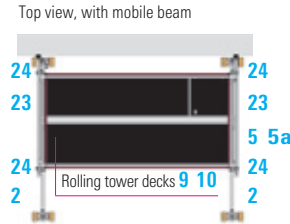
# ▶ Wall support

## Wall support under load

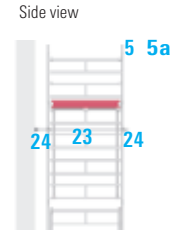


For work performed on a load-bearing wall, ballasting can be reduced in accordance with the ballast table (see page 16).

In this case, wall supports must be installed on both sides of the tower. To do so, the Uni distance tube **23** must be used and fastened with couplers **24** to



the ladder frame **5, 5a**. The mobile beams must be installed so that they project from the side facing away from the wall. The wall supports must be attached at the height of the top working platform or at most 1 m below that.



# ▶ Dismantling



**During assembly and dismantling, system decks or scaffolding planks to DIN 4420 (minimum dimensions: 28 x 4.5 x 350 cm long) must be installed as auxiliary decks at maximum height intervals of 2.0 m. These auxiliary decks, providing a safe footing for assembly and dismantling, must be removed again after assembly. Each platform must be completely decked.**

Dismantling is in the reverse order to that of the assembly steps.

**When dismantling, do not remove the bracing elements such as diagonal braces **2**, rear guard rails **6** or access decks **10** until the ladder frames **5, 5a** above them have been dismantled.**

To lift out the individual parts, open the snap-on claws by pressing their locking clips. The red locking clips of the decks permit effortless installation and removal by a single person; first open them and place the deck with the opened clips on the rung, then open the opposite clips and lift out the deck.

The towers 2112, 2113, 2114, 2115, 2212, 2213, 2214 and 2215 are intended for **outdoor assembly**. The tower base is assembled here in accordance with Section 3.3.

► **Table 1**

Tower Model	Article No.	2101	2102	2112	2103	2113	2104	2114	2105	2115	2106	2107	2108	2109	2110	2111
Ladder frame 150/4	1299.004	–	2	2	–	–	2	2	–	–	2	–	2	–	2	–
Ladder frame 150/8	1299.008	2	2	2	4	4	4	4	6	6	6	8	8	10	10	12
Deck 2.85 m	1241.285	2	1	1	1	1	1	1	2	2	2	2	2	3	3	3
Access deck 2.85 m	1242.285	–	1	1	1	1	1	1	2	2	2	2	2	3	3	3
Double rear guard rail 2.85 m	1206.285	2	–	–	2	2	–	–	2	2	–	2	–	2	–	2
Rear guard rail 2.85 m	1205.285	–	6	6	2	2	6	6	8	8	9	9	11	13	15	15
Diagonal brace 3.35 m	1208.285	–	2	2	2	2	4	4	4	4	6	6	8	8	10	10
Mobile beam, adjustable, with deck support	1323.320	–	–	2	–	2	–	2	–	2	2	2	2	2	2	2
Base strut 2.85 m	1324.285	–	–	1	–	1	–	1	–	1	1	1	1	1	1	1
Access ledger	1344.003	–	1	–	1	–	1	–	1	–	–	–	–	–	–	–
Toe board 2.85 m, with claw	1239.285	–	2	2	2	2	2	2	2	2	2	2	2	2	2	2
End toe board 1.44 m	1238.144	–	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Spring clip	1250.000	–	4	4	4	4	8	8	8	8	16	16	20	20	24	24
Castor 200 with spindle, 7 kN	1259.200	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Ballast	1249.000	For the number of ballasting weights see the ballast table, page 16														

Tower Model	Article No.	2201	2202	2212	2203	2213	2204	2214	2205	2215	2206	2207	2208	2209	2210	2211
Ladder frame 150/4	1299.004	–	2	2	–	–	2	2	–	–	2	–	2	–	2	–
Ladder frame 150/8	1299.008	2	2	2	4	4	4	4	6	6	6	8	8	10	10	12
Deck 2.85 m	1241.285	2	2	2	2	2	2	2	3	3	3	3	3	4	4	4
Access deck 2.85 m	1242.285	–	1	1	1	1	1	1	2	2	2	2	2	3	3	3
Beam 2.85 m	1207.285	2	–	–	2	2	–	–	2	2	–	2	–	2	–	2
Rear guard rail 2.85 m	1205.285	–	4	4	–	–	4	4	6	6	8	8	10	12	14	14
Diagonal brace 3.35 m	1208.285	–	2	2	2	2	4	4	4	4	6	6	8	8	10	10
Deck support, bolt-on, 0.9 m	1326.090	–	2	–	2	–	2	–	2	–	–	–	–	–	–	–
Mobile beam, adjustable, with deck support	1323.320	–	–	2	–	2	–	2	–	2	2	2	2	2	2	2
Base strut 2.85 m	1324.285	–	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Basic tube 2.85 m	1211.285	–	–	1	–	1	–	1	–	1	1	1	1	1	1	1
Toe board 2.85 m, with claw	1239.285	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
End toe board 1.44 m	1238.144	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Spring clip	1250.000	–	4	4	4	4	8	8	8	8	16	16	20	20	24	24
Castor 200 with spindle, 7 kN	1259.200	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Ballast	1249.000	For the number of ballasting weights see the ballast table, page 16														

Additional requirement for special structure with bracket deck surface	1 bracket deck surface	2 bracket deck surfaces	
Aluminium console bracket 0.75 m	1341.075	2	4
Deck 2.85 m	1241.285	1	2
Ladder frame 75/4	1297.004	2	4
End toe board	1238.075	2	4
Intermediate deck 2.85 m	1339.285	1	2
Spring clip	1250.000	4	8

### Construction variants with stabilizers, extendable: 2126 – 2151; with stabilizer, 5 m: 2146 – 2131

Tower Model	Article No.	2126		2127		2128		2129		2130		2131	
		2146	2147	2146	2147	2148	2149	2150	2151				
Ladder frame 150/4	1299.004	2	2	–	–	2	2	–	–	2	2	–	–
Ladder frame 150/8	1299.008	6	6	8	8	8	8	10	10	10	10	12	12
Deck 2.85 m	1241.285	2	2	2	2	2	2	3	3	3	3	3	3
Access deck 2.85 m	1242.285	2	2	2	2	2	2	3	3	3	3	3	3
Double rear guard rail 2.85 m	1206.285	–	–	2	2	–	–	2	2	–	–	2	2
Rear guard rail 2.85 m	1205.285	10	10	10	10	12	12	14	14	16	16	16	16
Diagonal brace 3.35 m	1208.285	6	6	6	6	8	8	8	8	10	10	10	10
Stabilizer, extendable	1248.260	4	–	4	–	4	–	4	–	4	–	4	–
Stabilizer 5m	1248.500	–	4	–	4	–	4	–	4	–	4	–	4
Rotation preventer	1248.261	4	4	4	4	4	4	4	4	4	4	4	4
Access ledger	1344.003	1	1	1	1	1	1	1	1	1	1	1	1
Toe board 2.85 m, with claw	1239.285	2	2	2	2	2	2	2	2	2	2	2	2
End toe board 1.44 m	1238.144	2	2	2	2	2	2	2	2	2	2	2	2
Spring clip	1250.000	12	12	12	12	16	16	16	16	20	20	20	20
Castor 200 with spindle, 7 kN	1259.200	4	4	4	4	4	4	4	4	4	4	4	4
Ballast	1249.000	For the number of ballasting weights see the ballast table, page 16											

### ►2 Table 2

Additional requirement compared to Table 1 (2101 – 2111)																
Tower Model with ladders	Article No.	2302	2312	2303	2313	2304	2314	2305	2315	2306	2307	2308	2309	2310	2311	
Suspended ladder 9 rungs	1314.009	1	1	–	–	–	–	1	1	1	–	–	1	1	–	
Suspended ladder 12 rungs	1314.012	–	–	–	–	–	–	1	1	–	1	–	1	–	1	
Suspended ladder 13 rungs	1314.013	–	–	1	1	–	–	–	–	–	–	–	–	–	–	
Suspended ladder 16 rungs	1314.016	–	–	–	–	1	1	–	–	1	1	2	1	2	2	
Double ladder support 0.86 m	1317.086	1	–	–	–	–	–	1	–	–	–	–	–	–	–	
Double ladder support 1.34 m	1317.134	–	–	1	–	1	–	–	–	–	–	–	–	–	–	
Basic tube	1211.285	–	1	–	1	–	1	–	1	1	1	1	1	1	1	
Deck	1241.285	–	1	–	1	–	1	–	1	1	1	1	1	1	1	
Plan brace, adjustable	1318.000	1	–	1	–	1	–	1	–	–	–	–	–	–	–	
Reduced requirement																
Rear guard rail	1205.285	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Access ledger	1344.003	1	–	1	–	1	–	1	1	–	–	–	–	–	–	
Additional requirement for special structure with bracket deck surface								1 bracket deck surface			2 bracket deck surfaces					
Aluminium console bracket 0.75 m	1341.075									2			4			
Deck 2.85 m	1241.285									1			2			
Ladder frame 75/4	1297.004									2			4			
End toe board	1238.075									2			4			
Intermediate deck 2.85 m	1339.285									1			2			
Spring clip	1250.000									4			8			

The tower models, which can be extended with bracket deck surfaces are shown on page 16 (Ballasting). When operating with brackets, the tower may be loaded with 1.5 kN/m<sup>2</sup> (scaffolding group 2) at one working level only. A maximum of 2 bracket deck surfaces may be assembled. When bracket deck surfaces are fitted, the spindles mustn't be extended. The corresponding working level must be equipped with complete side protection.



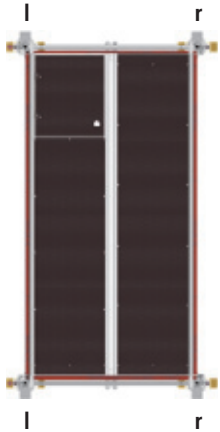


# ▶ Ballasting

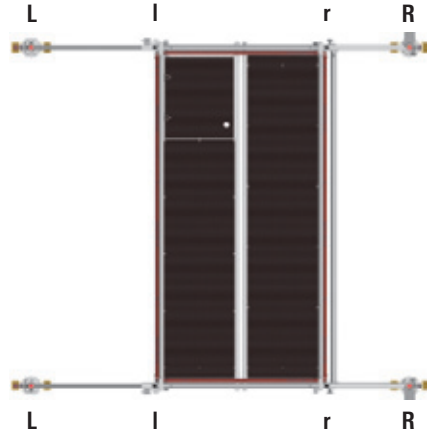
## ▶ Attachment of ballast weights

### Centre position:

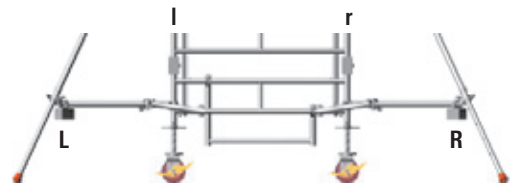
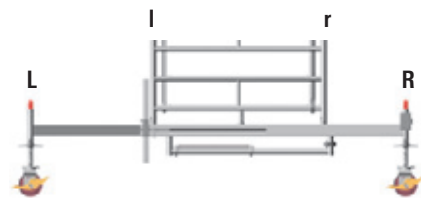
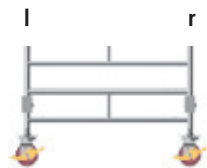
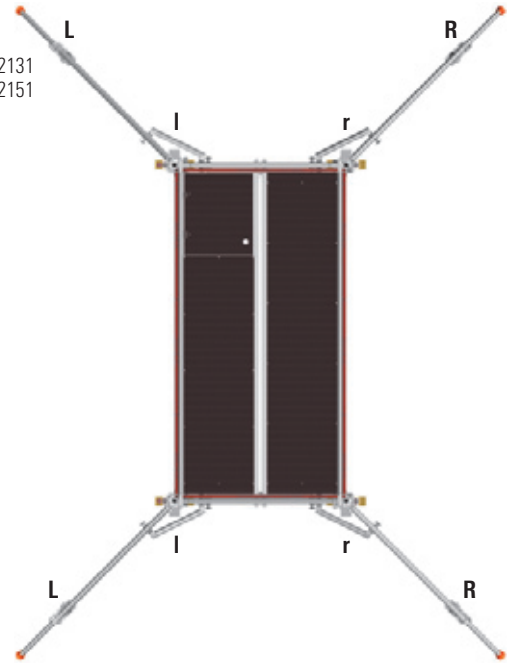
Models: 2101 – 2105  
2201 – 2205



Models: 2106 – 2111  
2112 – 2115



Models:  
2126 – 2131  
2146 – 2151

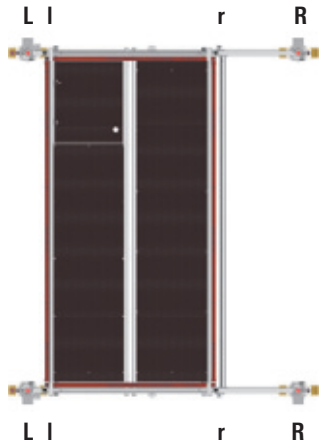


# ▶ Ballasting

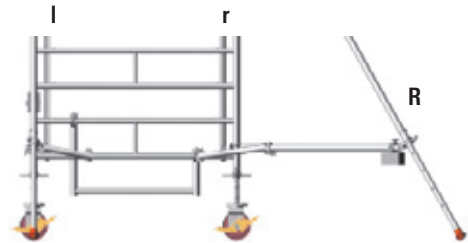
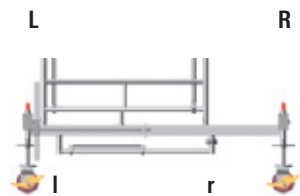
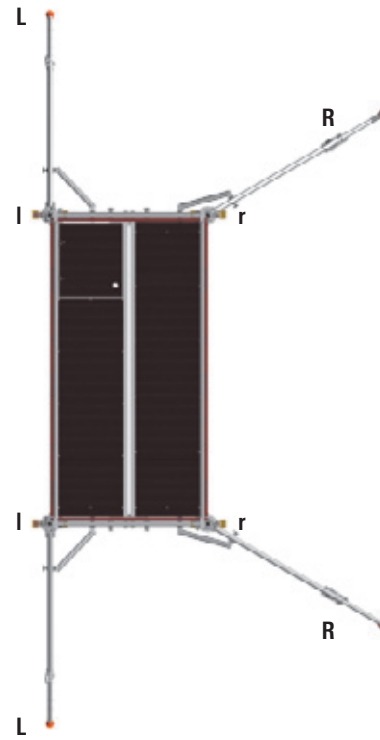
## ▶ Attachment of ballast weights

### Off-centre position:

Models: 2106 – 2111  
2112 – 2115



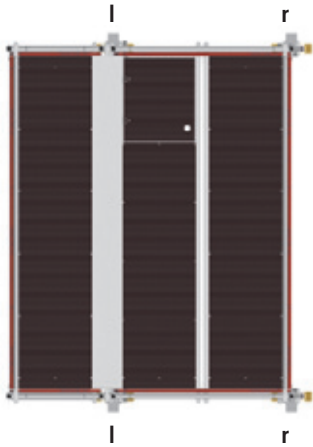
Models: 2126 – 2131  
2146 – 2151



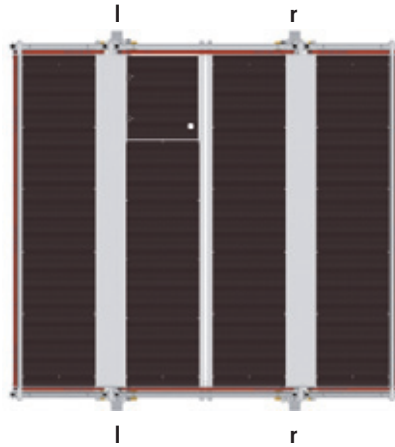
# ▶ Ballasting

## ▶ Attachment of ballast weights

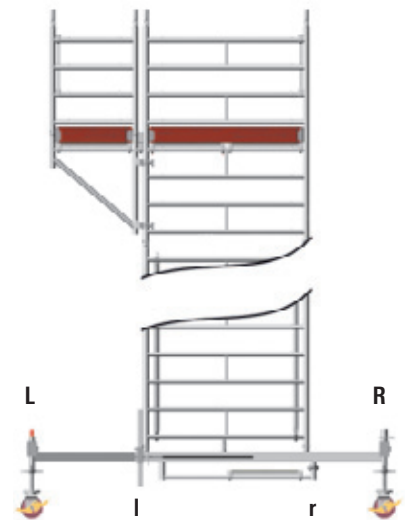
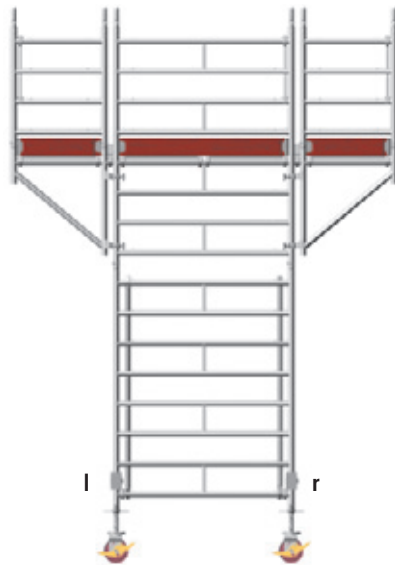
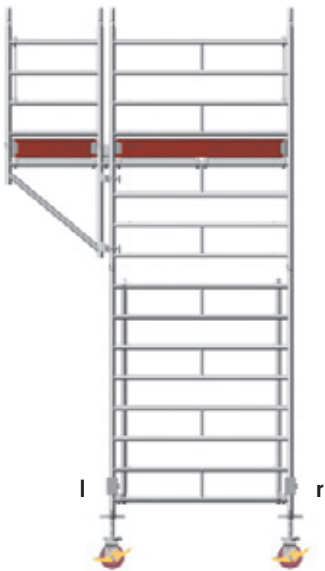
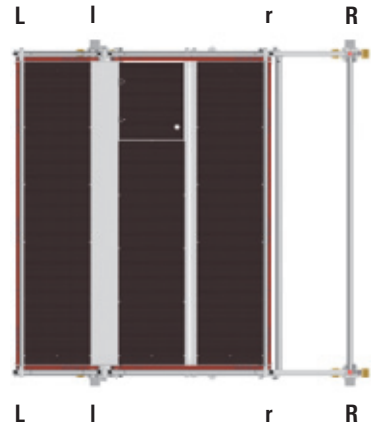
Assembly with brackets directly on castors:



Assembly with 2 brackets directly on castors:



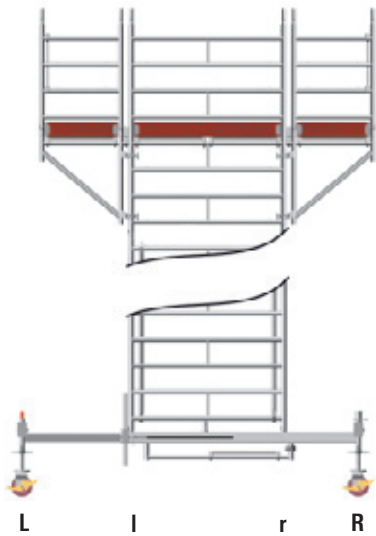
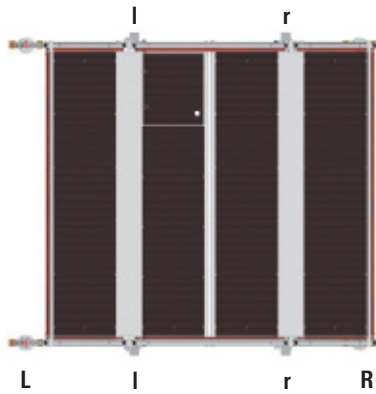
Assembly on mobile beam with 1 bracket:



# ▶ Ballasting

## ▶ Attachment of ballast weights

Assembly on mobile beam with 2 brackets:



## Layer Uni Wide Tower

### ▶ Example of assembly, model 2104

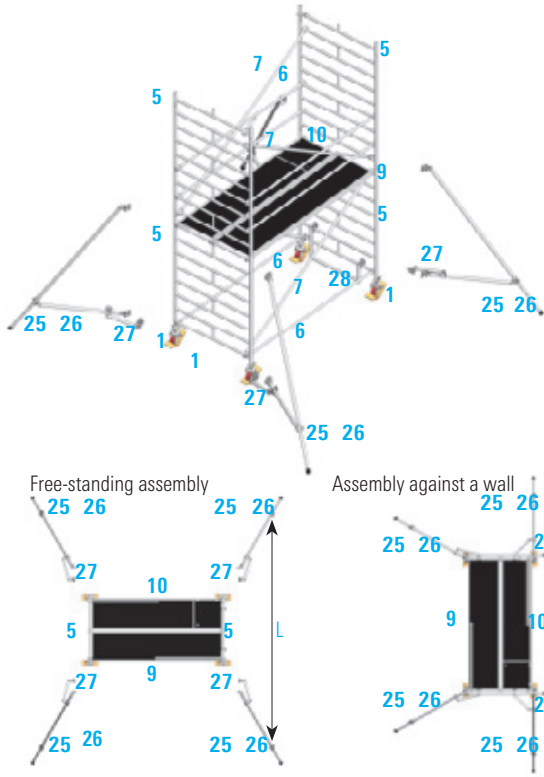
Assembly indoors in centre position  
Ballast: see excerpt from table, page 16

2104		
2204		
2304		
l	r	Sum
4	4	8
×	×	×



# Stabilizer attachment

Before assembly, see item 1 on page 7. With this assembly form, the fixed and adjustable mobile beams are dispensed with. They are replaced by extendable stabilizers or 5 m stabilizers.



For tower model 2126 – 2151 and above  
Distance  $L_{\min} = 3.20$  m

The castors **1** are inserted into the ladder frames **5** and secured against falling out by fastening the wing screws on the spindle nuts. Bolt an access ledger **28** to the centre of the ladder frame **5**.

Connect the two ladder frames **5** using the two diagonal braces **7** and two double rear guard rails **8**. Fit deck **9** and access deck **10** in accordance with the general drawings. The horizontal clearance between the decks must not exceed 25 mm. After engagement, push the rear guard rails **6** and diagonal braces **7** as far outwards as possible.

Level the tower using the threaded spindles.

Attach a stabilizer **25.26** to each leg of the ladder frame **5**. To do so, fasten the half-coupler directly beneath the rung of the ladder frame **5**. Before tightening the star handles (hand wheels), fix the stabilizers in the right position, against the wall or free-standing, and then tighten them using the star handles.

Ensure that the foot is firmly on the ground by sliding the half-coupler on the stabilizer.

Fasten the lower half-coupler beneath the bottom rung of the ladder frame **5** and tighten it in turn using the star handle. Adjust the position of the stabilizer relative to the tower. If the tower is free-standing, set the angle to 60° in each case, if it is against a wall, set the angles to 90° and 60°.

To ensure that the position cannot change, now attach the tower rotation lock **27** to the stabilizer **25.26** and to the rung of the ladder frame **5**.

Adjust the rotation lock by moving the half-coupler on the stabilizer **25.26** such that the half-coupler is fixed beneath the first rung of the ladder frame. Ensure that the spring clips safely engage in the telescoping parts of the extendable stabilizer. When moving the tower, the stabilizer must not be lifted more than 2 cm off the ground.

Indoors and in the central position, ballasting is not necessary. Outdoors, no ballast weight is needed up to tower model 2127 with extendable stabilizer and central position. For work performed on a load-bearing wall, ballasting can be provided in accordance with the ballast table (see page 16).

Further assembly of tower models 2226 – 2231 as per section 6.


Further assembly of tower models 2246 – 2251 as per section 6.

# Components


**1 Castor 200**  
with spindle, 7 kN **1259.200**



**2 Mobile beam with deck support**  
3.2 m adjustable **1323.320**



**3 Basic tube**  
2.85 m **1211.285**




**4 Plan brace**  
adjustable **1318.000**




**5 Ladder frame 150/8** **1299.008**


Ladder frames with non-continuous central standard (new production) and continuous central standard (old production) can be installed together.



**5a Ladder frame 150/4** **1299.004**




**6 Rear guard rail**  
2.85 m **1205.285**



**7 Diagonal brace**  
3.35 m **1208.285**



**8 Double rear guard rail**  
**1206.285**



**9 Deck**  
2.85 m **1241.285**




**10 Access deck**  
2.85 m **1242.285**




**11 Spring clip**  
**1250.000**



**12 Toe board with claw**  
2.85 m **1239.285**



**13 End toe board**  
1.44 m **1238.144**



**Suspended ladders**


**36** 8 rungs **1314.008** ■

**14** 9 rungs **1314.009** ■

**15** 12 rungs **1314.012** ■

**16** 13 rungs **1314.013** ■


**17** 16 rungs **1314.016** ■



**Double ladder suport**

**18** 1.34 m **1317.134**  
for suspended ladders **16,17**

**19** 0.86 m **1317.086**  
for suspended ladders **14**



**20 Base strut**  
2.85 m **1324.285**




## Layher Uni Wide Tower


**21 Deck support, bolt-on**  
0.9 m **1326.090**




**22 Ballast (10 kg)** **1249.000**



**23 Uni distance tube**  
1.8 m **1275.180**




**24 Special screw coupler, rigid**  
19 mm WS **1269.019**  
22 mm WS **1269.022**




**25 Stabilizer extendable** **1248.260**



**26 Stabilizer**  
5 m **1248.500**



**27 Tower rotation lock**  
**1248.261**



**28 Access ledger** **1344.003**



# Components for special assemblies

**29 Aluminium bracket 1341.075**  
0.75 m



**30 Intermediate deck 1339.285**  
2.85 m



**31 Mobile beam with deck support, without central spigot 1338.320**  
3.2 m



**32 Spigot adjustable 1337.000**



**33 End toe board 1238.075**  
0.75 m



**34 Beam 1207.285**  
2.85 m



**35 Deck diagonal brace 1347.335**  
3.35 m



**Identification sign 6344.300**



**Prohibition sign 6344.200**







# Assembly on special mobile beam

Ballasting must in any event be in accordance with the ballast table, lines relating to **"Assembly in off-centre position"** (see page 16). The ballast weights must be distributed evenly to the fixing points A in the drawing. The assembly instructions must be precisely followed here.

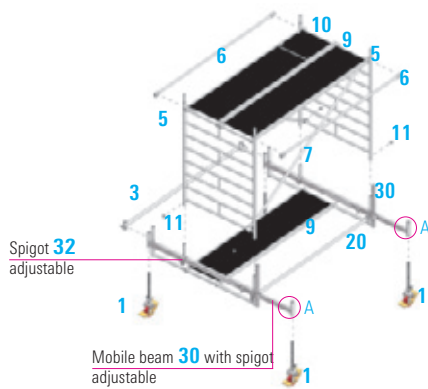
Move the spigots on the mobile beam in such a way that the ladder frames 5 can be fitted in the selected position. For this purpose, both fixed and adjustable

spigots can be used depending on the mobile beam model. Tighten the bolts of the adjustable spigot. In the wall assembly form, a 2<sup>nd</sup> deck 9

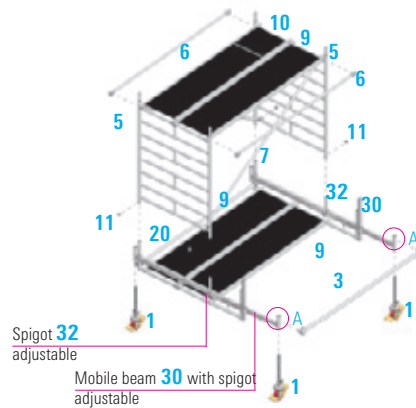
is needed. Further assembly must be in accordance with Section 3.3.

## with and without ladders

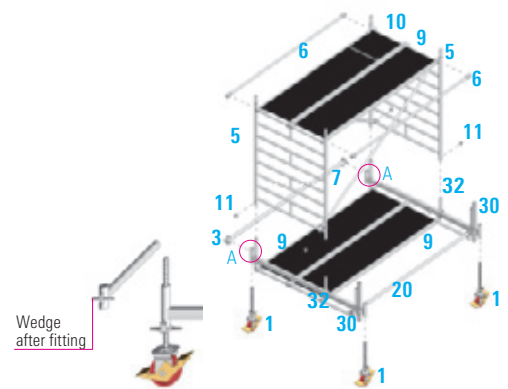
centre position



off-centre position



off-centre position,  
"wall assembly form"  
Mobile beam pushed in



ZERTIFIKAT ◆ CERTIFICATE ◆ 証明書 ◆ CERTIFICADO ◆ CERTIFICAT	 Product Service
	<h2>CERTIFICATE</h2> <p>No. Z1A 08 10 19959 056</p>
	<b>Holder of Certificate:</b> <b>Wilhelm Layher GmbH &amp; Co. KG</b> Ochenbecher Straße 59 74303 Göggingen-Elkensbach GERMANY
	<b>Factory(ies):</b> 19609
	<b>Certification Mark:</b>  
	<b>Product:</b> <b>Scaffold</b>
	<b>Model(s):</b> <b>UniBreit</b>
	<b>Parameters:</b> see attachment 1
	<b>Tested according to:</b> DIN EN 1004:2005 DIN EN 1298:1996
	The product meets the requirements of the German Equipment and Product Safety Act. The Certification marks shown above can be affixed on the product. The certification marks must not be altered in any way. The use of the GS-Mark is permitted until the listed date, the use of the TÜV-Mark is unlimited, unless it is cancelled. See also notes overleaf.
<b>Test report no.:</b> 028-71320/87-002	
<b>GS-Mark valid until:</b> 2013-10-13	
Date: 2008-10-21 	 361014
Page 1 of 7	
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ZERTIFIKAT ♦ CERTIFICATE ♦ СЕРТИФИКАТ ♦ CERTIFICADO ♦ CERTIFICAT

Attachment 1 to Certificate No. Z1A 08 10 19959 056  
Firm: Wilhelm Layher GmbH & Co. KG



Product Service

### Models and parameters

**Mobile access and working towers with stabilizers scaffoldtypes 2101-2115**

Max. load:	200 kg/m <sup>2</sup> (scaffold group 3)
Dimension	
Scaffold length:	2,85 m
Scaffold width:	1,50 m
Scaffoldtypes	Standing height
2101:	1,50 m
2102 / 2112:	2,50 m
2103 / 2113:	3,50 m
2104 / 2114:	4,50 m
2105 / 2115:	5,50 m
2106 :	6,50 m
2107:	7,60 m
2108:	8,60 m
2109:	9,60 m
2110:	10,60 m
2111:	11,60 m

**Materials**

Scaffold construction:	EN AW-6063-T66 FN AW-6082-T5
Undercarriage:	R St 37-2

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Product Service

### Models and parameters

**Mobile access and working towers with stabilizers scaffoldtypes 2201-2215**

Max. load:	200 kg/m <sup>2</sup> (scaffold group 3)
Dimension	
Scaffold length:	2,85 m
Scaffold width:	1,50 m
Scaffoldtypes	Standing height
2201:	1,50 m
2202 / 2212:	2,60 m
2203 / 2213:	3,60 m
2204 / 2214:	4,60 m
2205 / 2215:	5,60 m
2206 :	6,60 m
2207:	7,70 m
2208:	8,70 m
2209:	9,70 m
2210:	10,70 m
2211:	11,70 m

**Materials**


Scaffold construction:	EN AW-6063-T66 EN AW-6082-T5
Undercarriage:	R St 37-2

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Product Service

### Models and parameters


**Mobile access and working towers with stabilizer and sloped ladder, scaffoldtypes 2301-2315**

Max. load: 200 kg/m<sup>2</sup> (scaffold group 3)

Dimension	
Scaffold length:	2,85 m
Scaffold width:	1,60 m
Scaffoldtypes	Standing height
2301:	1,50 m
2302 / 2312:	2,60 m
2303 / 2313:	3,50 m
2304 / 2314:	4,60 m
2305 / 2315:	5,50 m
2306:	6,70 m
2307:	7,70 m
2308:	8,70 m
2309:	9,70 m
2310:	10,70 m
2311:	11,70 m

Materials  
Scaffold construction: EN AW-6063-T66  
EN AW-6082-T5

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Product Service

### Models and parameters


**Mobile access and working towers with adjustable outriggers, scaffoldtypes 2126-2131**

Max. load: 200 kg/m<sup>2</sup> (scaffold group 3)

Dimension	
Scaffold length:	2,85 m
Scaffold width:	1,50 m
Scaffoldtypes	Standing height
2126:	6,50 m
2127:	7,50 m
2128:	8,50 m
2129:	9,50 m
2130:	10,50 m
2131:	11,50 m

Materials  
Scaffold construction: EN AW-6063-T66  
EN AW-6082-T5

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Product Service

**Models and parameters**

**Mobile access and working towers with outriggers 6m, scaffoldtypes 2146-2151**

Max. load: 200 kg/m<sup>2</sup> (scaffold group 3)

Dimension  
Scaffold length: 2,85 m  
Scaffold width: 1,60 m  
Scaffoldtypes Standing height  
2146: 6,50 m  
2147: 7,50 m  
2148: 8,50 m  
2149: 9,50 m  
2150: 10,50 m  
2151: 11,50 m

Materials  
Scaffold construction: EN AW-6063-T66  
EN AW-6082-T5

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Product Service

**Models and parameters**

**Mobile access and working towers with console scaffoldtypes 2102-2116, 2202-2216 and 2302-16**

Max. load: 150 kg/m<sup>2</sup> (scaffold group 2)

Dimension  
Scaffold length: 2,85 m  
Scaffold width: 2,90 m  
Scaffoldtypes Standing height  
2102 / 2202 / 2302: 2,60 m  
2103 / 2203 / 2303: 3,60 m  
2114 / 2214 / 2314: 4,60 m  
2115 / 2215 / 2315: 5,60 m  
2106 / 2206 / 2306: 6,60 m

Material: EN AW-6063-T66  
Scaffold construction: EN AW-6082-T5  
Undercarriage: R St 37-2

Munich, 2008-12-08




Norbert Thimm

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# General directions for assembly and use

## Layher Uni Wide Tower

The rolling tower may be used for the scaffolding class as specified in the German operating safety regulations (BetrSichV). For mobile working platforms (rolling towers) DIN EN 1004:2005-03 shall apply.

### The user of the mobile working platform must comply with the following instructions:

1. The user must check the suitability of the selected rolling tower for the work to be performed (Section 4 of BetrSichV).
2. The max. working height is, in accordance with DIN 1004:2005-03:
  - indoors 12.0 m
  - outdoors 8.0 m

The material and ballasting requirements on pages 14 – 20 must be complied with; risk of accidents in the event of non-compliance. For greater heights, additional measures are necessary, obtainable from the manufacturer. The stability of the rolling tower must be assured.

3. The assembly, modification or dismantling of the rolling tower in accordance with the present instructions for assembly and use may only be performed under the supervision of a qualified person and by professionally suitable personnel after special instruction. Only the tower types shown in these instructions for assembly and use may be used.

The unit must, after assembly and before being put into service, be inspected by persons qualified to do so (Section 10 of BetrSichV). The inspection must be documented (Section 11 of BetrSichV). During assembly, modification or dismantling, the rolling tower must be provided with a prohibition sign indicating „No access allowed“ and be adequately safeguarded by means of barriers preventing access to the danger zone (BetrSichV Annex 2, para. 5.2.5).

4. Before assembly, all parts must be inspected to ensure they are in perfect condition. Only undamaged original parts from the Layher mobile working platform systems may be used. Scaffolding parts such as snap-on claws and spigots must be cleaned of dirt after use. Scaffolding components must be secured against slipping and impacts when transported by truck. Storage protected from the effects of weather must be ensured for the scaffolding. Scaffolding components must be handled in such a way that they are not damaged. For attachment of the ballast weights and wall support, see pages 17 – 20 of these instructions for assembly and use!

5. **During assembly and dismantling, system decks or scaffolding planks to DIN 4420-03 (minimum dimensions: 28 x 4.5 x 350 cm long) must be installed as auxiliary decks at maximum height intervals of 2.0 m. These auxiliary decks, providing a safe footing for assembly and dismantling, must be removed again after assembly. Each platform must be completely boarded.**

For system reasons, intermediate platforms with access hatches must be installed at intervals of 4.00 m. For safety reasons, it is advisable for 2 persons to assemble towers of a height of 4.00 m and above. To assemble the upper sections of the tower, the components must be hoisted using transport ropes.

Small quantities of tools and materials can be carried up by the personnel, otherwise hoisted to the working level using transport ropes.

6. Secure the ladder frame joints against unintended lift-out using spring clips.
7. **During assembly, push the rear guard rails and diagonal braces as far outwards as possible.**
8. On **intermediate platforms** used solely for ascent, two rear guard rails as sufficient.

For small towers where the height of the deck is more than 1.00 m, equipment must be provided that permits attachment of side protection in accordance with DIN EN 1004:2005-03.

9. Access up onto the working platform is only permitted on the inside of the scaffolding. Exceptions are models 2101, 2201.

10. Working on two or more levels at the same time is not permitted. In the event of exceptions, the manufacturer must be consulted.

11. Personnel working on mobile working platforms must not push against the side protection.

12. Lifting gear must not be attached to and used on mobile working platforms.

13. Assembly and movement are only permitted on sufficiently firm and level ground, and only in a longitudinal or diagonal direction. Avoid any impacts. When the base is extended on one side while wall supports are in use, movement is only permissible parallel to the wall. During movement, do not exceed normal walking speed.

14. No personnel or loose objects may be on the tower while it is being moved.

15. After movement, lock the castors by pressing down the brake lever.

16. The scaffolding structures must not be subjected to any aggressive fluids or gases.

17. Mobile working platforms must not be connected by bridging **unless its structural strength has been specifically verified.**

The same applies for all other special assemblies, e.g. suspended scaffolding etc.

18. When the mobile working platform is **used outdoors** or in open buildings, it must be moved to a wind-protected area when wind strengths exceed 6 on the Beaufort scale or at the end of a shift, or secured against toppling over by other suitable measures. (a wind strength of more than 6 can be recognised by noticeable difficulty in walking.) If possible, towers used outside buildings must be securely fastened to the building itself or to other structures. It is recommended that mobile working platforms be anchored if they are left unattended.

19. Decks can also be fixed one rung higher or lower to achieve a different working height. Ensure here that the specified rear guard rail heights of 1 m are observed. The diagonal braces are also set higher or lower to the appropriate level. If this assembly form is selected, the manufacturer must be consulted to ascertain whether an **additional verification of stability** is required.

20. Level the tower using the adjusting spindles. The maximum inclination must not exceed 1%.

21. Moving in of the adjustable mobile beams is only permitted in conformity with the **instructions for assembly and use** and the ballasting information, see page 16.

22. The access hatches must be kept shut whenever they are not in use.

23. All couplers must be tightened with 50 Nm.

24. A mobile working platform is not intended for use as a stairway tower to provide access from there to other structures.

25. It is prohibited to jump on decks.

26. A check must be made as to whether all parts, auxiliary tools and safety equipment (ropes etc.) for assembling the mobile working platforms are available at the site.

27. Avoid horizontal and vertical loads that can cause the mobile working platform to topple over, for example:

- horizontal loads, e.g. from work on adjacent structures,

- additional wind loads (tunnel effect of through-type buildings, unclad buildings and corners).

28. If stipulated, mobile beams or stabilizers or outriggers and ballast must be provided.

29. It is prohibited to increase the height of the deck using ladders, boxes or other objects.

30. It is not permitted to construct bridges between a mobile working platform and a building.

31. Mobile working platforms are not designed to be lifted or suspended.

All dimensions and weights are guideline values.

Subject to technical modification.

Our deliveries shall be made exclusively in accordance with our currently valid General Terms of Sale.

# Layher®



More Possibilities. The Scaffolding System.

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