
# altrex 51 Plus Single Width Rolling Tower Instruction Manual



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## altrex 51 Plus Single Width Rolling Tower

**Specifications:**

- Product Model: RS TOWER 51/51+/52/54/55
- Working Heights:
  - RS TOWER 51: 3.2m, 5.2m, 7.2m, 9.2m
  - RS TOWER 51+/52: 3.2m, 5.2m, 7.2m, 9.2m, 11.2m, 13.2m

## Product Usage Instructions

**Assembly:**

1. Start by identifying all the components listed in the manual.
2. Assemble the frame according to the provided instructions, ensuring all connections are secure.
3. Attach the platform to the frame securely.

**Adjusting Working Height:**

To adjust the working height of the tower, follow these  steps:

1. Identify the desired working height based on the model.
2. Use the provided mechanisms to adjust the tower to the required height.
3. Ensure all locking mechanisms are engaged before use.

**Safety Guidelines:**

- Always use the tower on a flat and stable surface.
- Do not exceed the maximum load capacity specified for the tower.

- Regularly inspect all components for wear and tear and replace if necessary.

**FAQ**:

- **Q: What is the maximum working height for RS TOWER 51?**
  A: The maximum working height for RS TOWER 51 is 9.2m.
- **Q: How do I adjust the working height of RS TOWER 51+/52?**
  A: To adjust the working height of RS TOWER 51+/52, follow the steps outlined in the user manual for the specific model.

## General

This manual applies exclusively to folding and rolling tower configurations (hereinafter: 'the scaffold) as described in this assembly & user manual (hereinafter: 'the manual').
Prior to starting to assemble the tower, you should carefully read this manual. The required tower should be assembled and used in accordance with this manual.

**Reading Instruction**
The manual refers to annexes. These annexes appear at the front of the manual and are indicated by the letter T followed by a number.

| **Examples of notations used for references to annexes** | |
|---|---|
| T1 | Annex T1 |
| (Part T2.A) | Annex T2, part A |
| [T3.6 – T3.8] | Annex T3, figure 6 to 8 |
| [T4.1] | Annex T4, figure 1 |
| And so on | |

**WARNING**: a fall from scaffolding can cause serious injury or death. All instructions in this manual have to be strictly adhered to. If the instructions contained in this manual are not followed, accidents may arise. Altrex may not be held liable for any damage as a result of non-compliance with the guide regarding the assembly and use of the Altrex scaffold.
The employer, supervisor and user are responsible for the correct use of the container stairs in accordance with this manual and they must ensure that this manual is available at all times when work is being carried out using the container stairs. Additional copies of the manual can be ordered from Altrex.

**Note**:

- The manual must be available with the scaffold during assembly and use.
- The scaffold may only be assembled and used in accordance with this manual without making any modifications.
- Scaffolding may only be assembled and used in accordance with local laws and regulations. Local legislation and regulations may contain supplementary measures on top of this guide.
- Make sure you are familiar with the assembly and use of the rolling tower. Study the manual carefully and

follow specific training if necessary.

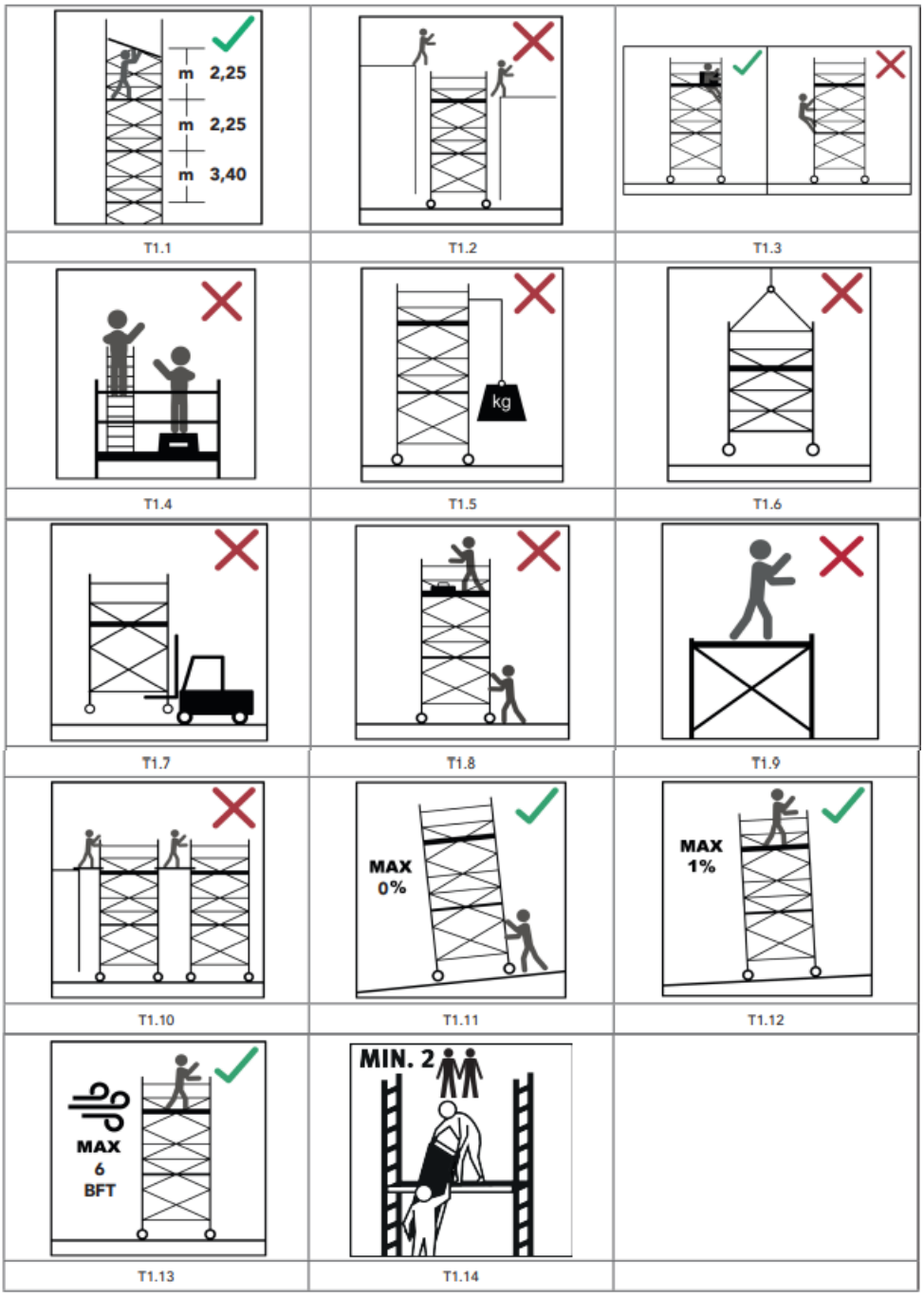
- Employees charged with conversion, maintenance, repair or cleaning must have specific expertise and experience in accordance with national (working conditions) legislation.
- A product training course does not replace a manual but gives additional explanation.

### Type of rolling tower

| RS TOWER 51/51+ | | RS TOWER 52 | RS TOWER 54 | RS TOWER 55 |
|---|---|---|---|---|
| **Norm**<br>**Category** | EN1004-1<br>3-H2 | EN1004-1<br>3-H2 | EN1004-1<br>3-H2 | EN1004-1<br>3-H2 |
| **Access category** | D | D | D | D |
| **Maximum platform height outdoors** | 8 m | 8 m | 6,8 m | 6,8 m |
| **Maximum platform height indoors** | 8 m | 12 m | 6,8 m | 10,8 m |
| **Maximum platform load** | 250 kg | 250 kg | 250 kg | 250 kg |
| **Maximum load on rolling tower** | 750 kg | 750 kg | 750 kg | 750 kg |
| **Maximum number of persons per platform** | 2 | 2 | 2 | 2 |
| **Maximum wind load in operation** | 12,7 m/s<br>(max. 6 Beaufort)* | 12,7 m/s<br>(max. 6 Beaufort)* | 12,7 m/s<br>(max. 6 Beaufort)* | 12,7 m/s<br>(max. 6 Beaufort)* |
| **Maximum wind load when moving** | 12,7 m/s<br>(max. 6 Beaufort)* | 12,7 m/s<br>(max. 6 Beaufort)* | 12,7 m/s<br>(max. 6 Beaufort)* | 12,7 m/s<br>(max. 6 Beaufort)* |
| **Minimum number of assembly persons** | 2 | 2 | 2 | 2 |

**Intended Use:** This rolling tower is intended for intensive use within the framework described in this manual
**Supplier**: Altrex BV – Mindenstraat 7 – 8028 PK Zwolle – Tel.: +31(0)38 455 77 33 – Email: **sales@altrex.com** – **www.altrex.com**
**Certification EN1004-1** / **EN1004-2**: TUV-NL

### Safety instructions (T1.1 – T1.13)



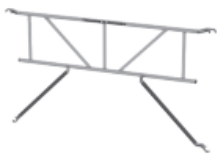

T1.1 T1.2 T1.3 T1.4 T1.5 T1.6 T1.7 T1.8 T1.9 T1.10 T1.11 T1.12 T1.13 T1.14

1. It is important to determine the required working height in advance and to select the correct rolling tower/rolling tower configuration for this.
2. The location of the rolling tower must be checked to prevent accidents during assembly, dismantling and moving with respect to:
    - A horizontal, flat and solid base;
    - The location must be free of obstacles;
    - Weather and wind conditions
    - Electricity cables (above ground)
3. The scaffold must not be out of the perpendicular in excess of 1%. So at a height of 4 meters, the deflection can be max. 4 cm. Check this with a spirit level. The use of hoisting gear on or attached to the scaffold is not permitted; this can seriously affect the stability of the tower. Scaffold parts, tools and materials may only be brought up and down (to and from the work floor)  manually using a rope, for example
4. An exception to this is working with the Altrex Shuttle lift system (RS5, MiTOWER)
5. Check all parts for damage. Damaged or incorrect parts may not be used.

6. Only original Altrex parts, as described in this manual, may be used. The mixing of scaffolding components of different brands/manufacturers is not permitted because no strength and stability calculation has been carried out on the relevant mix configuration.
7. Never make constructive adjustments to the scaffolding.
8. The standard configurations in this manual are not calculated on the use of tarpaulins and/or advertising boards.
9. Never leave the rolling tower unsupervised. If the rolling tower must be left unsupervised, you have to make sure that unauthorised individuals cannot access it. Anchor the tower with 2 anchorage tubes (309106) if there is a change that wind speed might exceed 4 Beaufort during the unsupervised period of time.
10. Particular attention should be paid to using scaffolds when there is wind:
    - Maximum wind load: see chapter 2
    - Take gusts of wind into account
    - Take wind-sensitive areas into account, e.g. near open constructions/structures and at the corner of a building If the above cannot be guaranteed, the scaffolding must be moved to a wind-free location or dismantled.
11. Lateral loads exceeding 30 kg resulting from work activities on the scaffold are not permitted. In the event of significantly larger forces, the scaffold should be anchored to the façade at 2 points every 4 metres. Each anchor point should be able to resist a load of 120 kg.
12. Never access the tower on the outside and never stand on the braces.
13. Triangle stabilisers and ballast must always be attached according to the configuration & ballast table.
14. The hoisting, hanging or lifting of the scaffold is not authorised.
15. It is not permitted to increase the height of a platform e.g. with ladders, stepladders, boxes or any other object.
16. Scaffolding in accordance with EN1004-1 is not designed for use as an anchor point for personal fall protection.
17. Scaffolding in accordance with EN1004-1 is not designed for use as an access or exit to other structures or buildings.
18. Scaffolding in accordance with EN1004-1 is not designed for use as roof edge protection.
19. The distance between 2 platforms is not more than 2.25 m. An exception is the distance to the first platform with 3.40 m.
20. Electrical danger. Assess all electrical hazards in the work area, such as conduits and other electrical equipment. Do not use the scaffolding where there is an electrical hazard.
21. Note that only one platform level may be used as a working platform. This platform must be equipped with a hip rest, knee rest and toe board.
22. Do not use the scaffolding if it is contaminated with, for example, paint, mud, oil, chemicals or snow.
23. Do not use the scaffolding if you are not fit enough. Certain medical conditions or medication, alcohol and drug use may make it unsafe to use the scaffolding.

## Parts

See Annex T2 for an overview of the parts and their mass.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| A |  | 301107 | 7.6 | B= 0,75 | NL | Opbouwframe 7 sports | PT | Bastidor 7 |
| | | 301507 | 8.5 | B= 0,90 | EN | Frame 7 rungs | IT | Telaio 7 |
| | | 301607 | 10.9 | B =1,35 | FR | Cadre 7 échelons | PL | Rama 7 |
| | | | | | DE | Aufbaurahmen 7 Sprossen | CZ | Svislý rám 7 |
| | | | | | ES | Bastidor 7 peldaños | SK | Priečnik 7 |
| B |  | 301104 | 4.5 | B= 0,75 | NL | Opbouwframe 4 sports | PT | Bastidor 4 |
| | | 301504 | 5.1 | B= 0,90 | EN | Frame 4 rungs | IT | Telaio 4 |
| | | 301604 | 6.5 | B =1,35 | FR | Cadre 4 échelons | PL | Rama 4 |
| | | | | | DE | Aufbaurahmen 4 Sprossen | CZ | Svislý rám 4 |
| | | | | | ES | Bastidor 4 peldaños | SK | Priečnik 4 |
| C |  | 511230 | 5.2 | Ø 200 | NL | Wiel | PT | Rodízio |
| | | | | | EN | Wheel | IT | Ruota |
| | | | | | FR | Roue | PL | Kółko jezdne |
| | | | | | DE | Rad | CZ | Pojezdové kolo |
| | | | | | ES | Rueda | SK | Koleso |
| D |  | Wood ↓ | | | NL | Platform met luik | PT | Plataforma com porta |
| | | 304410 | 14.8 | L= 1.85 | EN | Platform with trapdoor | IT | Piattaforma con botola |
| | | 304510 | 18.7 | L= 2.45 | FR | Plate-forme à trappe | PL | Podest z klapą |
| |  | 304610 | 23.6 | L= 3.05 | DE | Platform mit Luke | CZ | Podlahový dílec s průlezem |
| |  | Fiber-Deck® ↓ | | | ES | Plataforma con trampilla | SK | Plošina s prielezom |
| | | 305210 | 10.8 | L= 1.85 | | | | |
| | | 305310 | 13.7 | L= 2.45 | | | | |
| | | 305410 | 17.3 | L= 3.05 | | | | |
| E |  | Wood ↓ | | | NL | Platform zonder luik | PT | Plataforma sem porta |
| | | 304420 | 14.4 | L= 1.85 | EN | Platform without trapdoor | IT | Piattaforma senza botola |
| | | 304520 | 18.4 | L= 2.45 | FR | Plate-forme sans trappe | PL | Podest bez klapy |
| |  | 304620 | 23.3 | L= 3.05 | DE | Platform ohne Luke | CZ | Podlahový dílec plný |
| |  | Fiber-Deck® ↓ | | | ES | Plataforma sin trampilla | SK | Plošina bez prielezu |
| | | 305220 | 10.1 | L= 1.85 | | | | |
| | | 305320 | 13.3 | L= 2.45 | | | | |
| | | 305420 | 16.7 | L= 3.05 | | | | |
| F |  | 360265 | 7.1 | L= 1.85 | | Safe-Quick® Guardrail | | |
| | | 360266 | 8.5 | L= 2.45 | | | | |
| | | 360267 | 9.8 | L= 3.05 | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| G | 303704 | 1.9 | L= 1.85 | NL | Horizontaal schoor | PT | Braço horizontal |
|  | 303706 | 2.3 | L= 2.45 | EN | Horizontal Brace | IT | Puntello orizzontale |
| | 303708 | 2.6 | L= 3.05 | FR | Lisse | PL | Stężenie poziome |
| | | | | DE | Horizontalstrebe | CZ | Podélník/ zábradlí |
| | | | | ES | Tirante Horizontal | SK | Vodorovné stuženie |
| H | 303741 | 1.8 | L= 1.85 | NL | Diagonaal schoor | PT | Braço diagonal |
|  | 303727 | 2.2 | L= 2.45 | EN | Diagonal Brace | IT | Puntello diagonale |
| | 303742 | 2.6 | L= 3.05 | FR | Diagonale | PL | Stężenie ukośne |
| | | | | DE | Diagonalstrebe | CZ | Úhlopříčné ztužidlo |
| | | | | ES | Tirante Diagonal | SK | Uhlopriečne stuženie |
| I-1 | 513010 | 8.4 | | NL | Driehoekstabilisator | PT | Estabilizador |
|  | | | | EN | Triangular stabilizer | IT | Stabilizzatore |
| I-2 | 513001 | 6.5 | max. 4.2 m PH | FR | Stabilisateur triangulaire | PL | Trójkątny stabilizator |
| | | | | DE | Dreieckausleger | CZ | Stabilizátor |
| | | | | ES | Estabilizador Triangular | SK | Trojuholníkový stabilizátor |
| J | 305801 | 7.9 | B x L= 0.75x1.85 | NL | Kantplankset | PT | Conjunto de resguardo |
| | 305802 | 9.7 | B x L= 0.75x2.45 | EN | Toeboard set | IT | Tavole fermapiede |
|  | 305803 | 11.3 | B x L= 0.75x3.05 | FR | Lot de plinthes | PL | Zestaw bortnic |
| | 305804 | 9.7 | B x L= 1.35x1.85 | DE | Bordbretter-Satz | CZ | Zarážky u podlahy-sada |
| | 305805 | 11.5 | B x L= 1.35x2.45 | ES | Rodapié Aluminio | SK | Sada zarážok |
| | 305806 | 13.2 | B x L= 1.35x3.05 | | | | |
| K | 321005 | | B= 0,75 | NL | Vouwframe 6 sports | PT | Base rebatível |
|  | 322060 | | B= 1,35 | EN | Folding unit 6 rungs | IT | Unità pieghevole |
| | | | | FR | Échafaudage pliant 6 échelons | PL | Rama wieży składanej |
| | | | | DE | Klappgerüstrahmen 6 Sprossen | CZ | |
| | | | | ES | Conjunto plegable 6 peldaños | SK | Diel |
| L | 415271 | 5.0 | | NL | Ballast | PT | Contrapeso |
|  | | | | EN | Counterweight | IT | Zavorra |
| | | | | FR | Contre-poids | PL | Obciążnik balastowy |
| | | | | DE | Ballastgewicht | CZ | Zátěž |
| | | | | ES | Contrapeso | SK | Závažie |
| M | 415277 | 2.0 | | NL | Ballasthouder | PT | Suporte de contrapeso |
|  | | | | EN | Counterweight holder | IT | Sostegno della zavorra |
| | | | | FR | Support à contre-poids | PL | Uchwyt obciążnika balastowego |
| | | | | DE | Ausgleichsstange | CZ | Držák zátěže |
| | | | | ES | Suporte contrapesos | SK | Držadlo na závažie |

## Mounting instructions

See Annex T3 for an overview of the mounting instructions.

T3.1

T3.2

T3.3

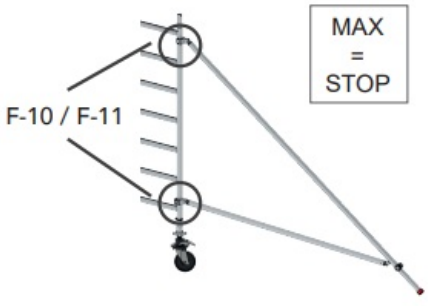
T3.4

T.5

T3.6

T3.7

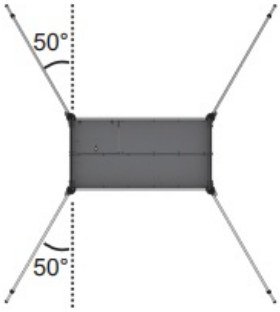
T3.8



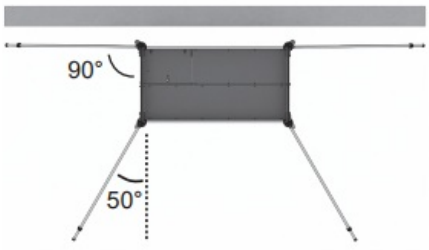

T3.9

T3.10

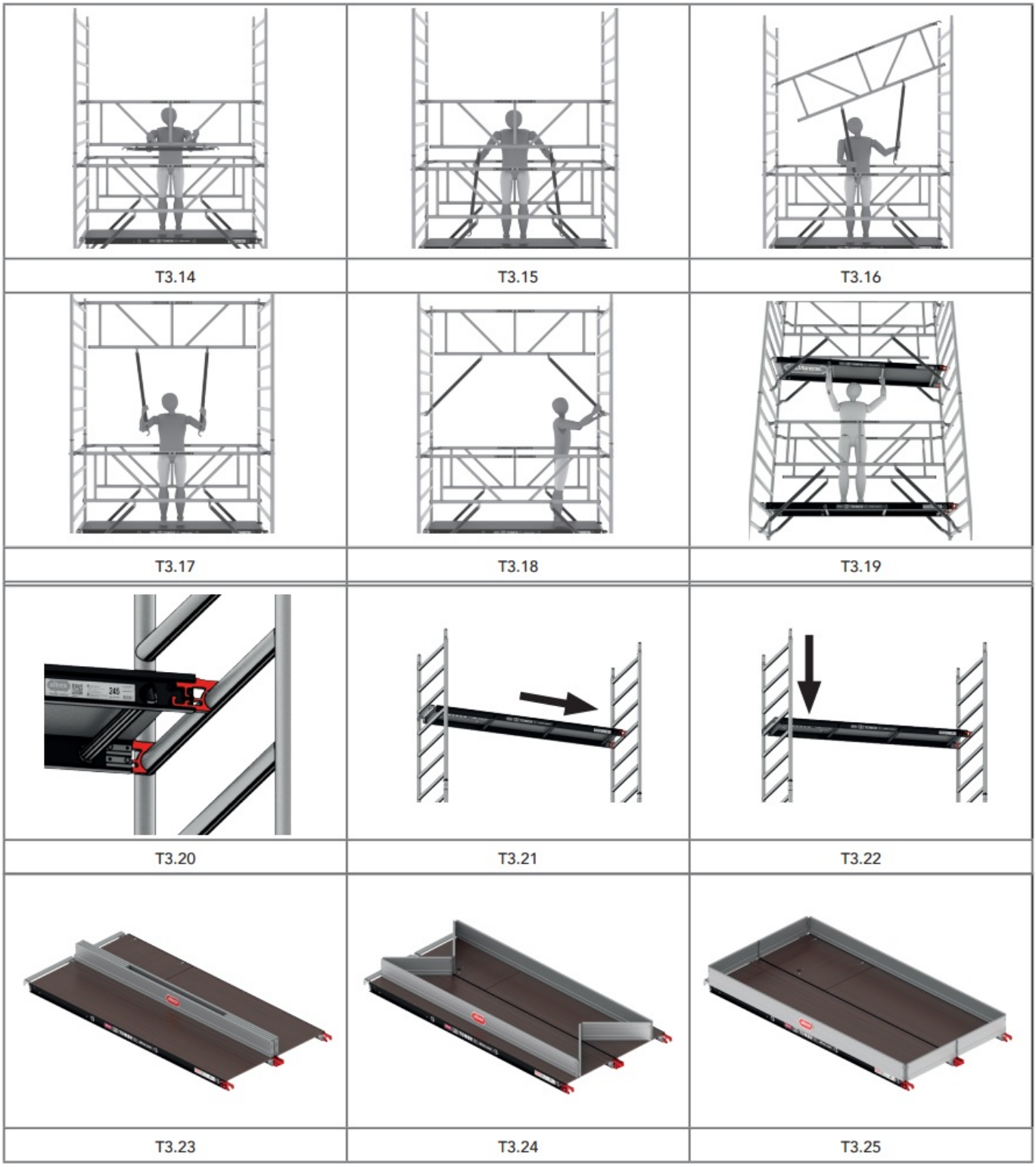
T3.11




T3.12



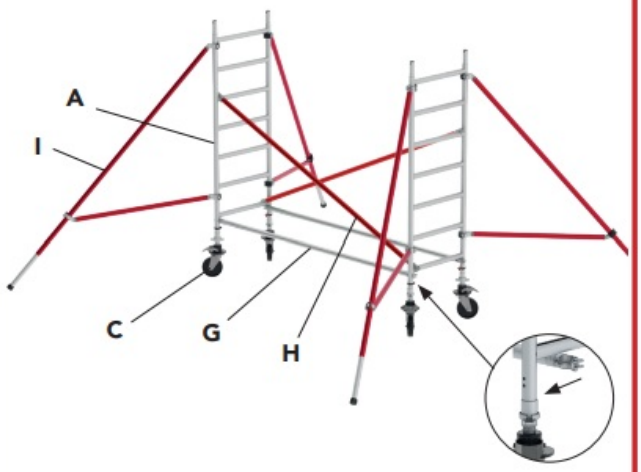

T3.13




### Assembly

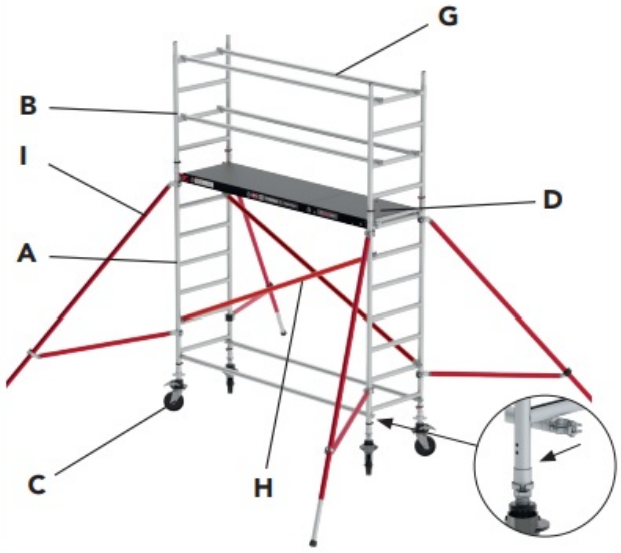
- Check that all parts, necessary tools and safety aids are present (e.g. helmet, gloves, safety shoes).
- Required tools:
  - Rope
  - Spirit level
- Assemble the components following the steps shown in appendix T4 and T5
- Make all the connections as shown in Annex T3
- See the table below for the reference to the annex with the configuration table and configurations per type of rolling tower

**Working height (WH)**
**3.2 m / 5.2 m / 7.2 m / 9.2 m**

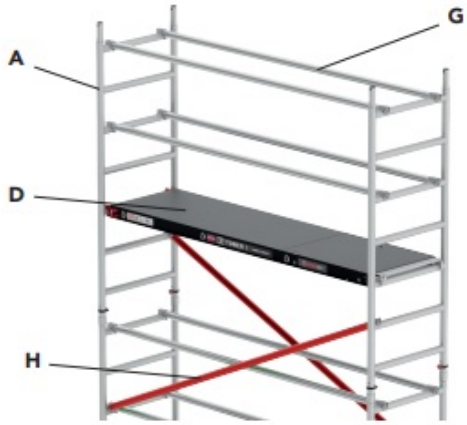



**A1**

**Working height (WH)**
**4.2 m / 6.2 m / 8.2 m / 10.2 m**




**A2**

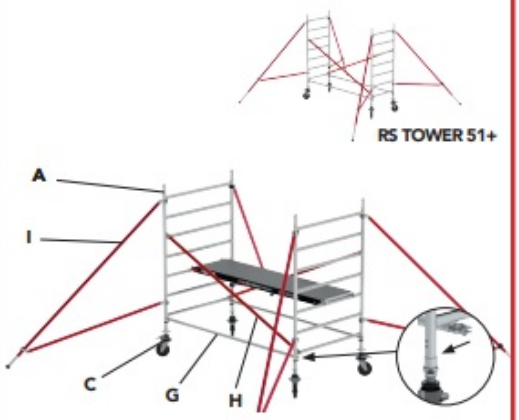



**B**


→ T6

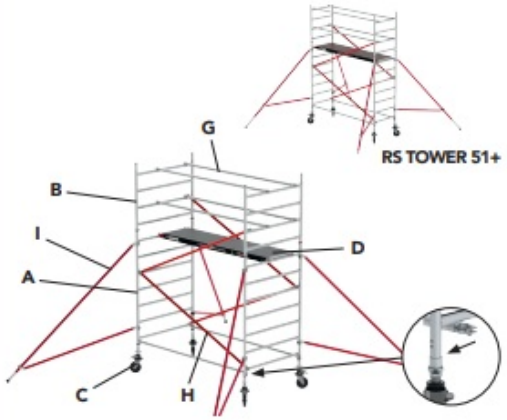
**C**

**Working height (WH)**
**3.2 m / 5.2 m / 7.2 m / 9.2 m / 11.2 m / 13.2 m**

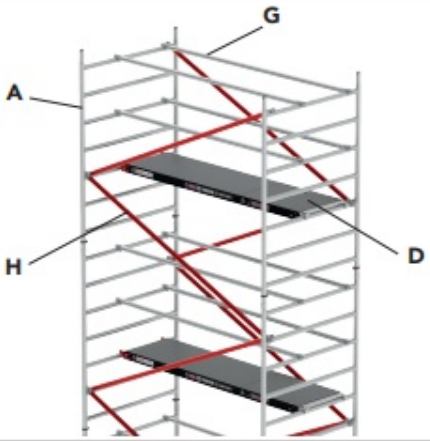



**A1**

**Working height (WH)**
**4.2 m / 6.2 m / 8.2 m / 10.2 m / 12.2 m / 14.2 m**

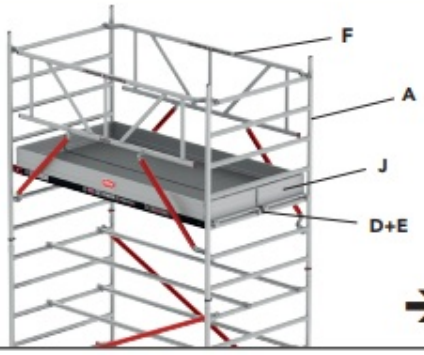



**A2**





**B**

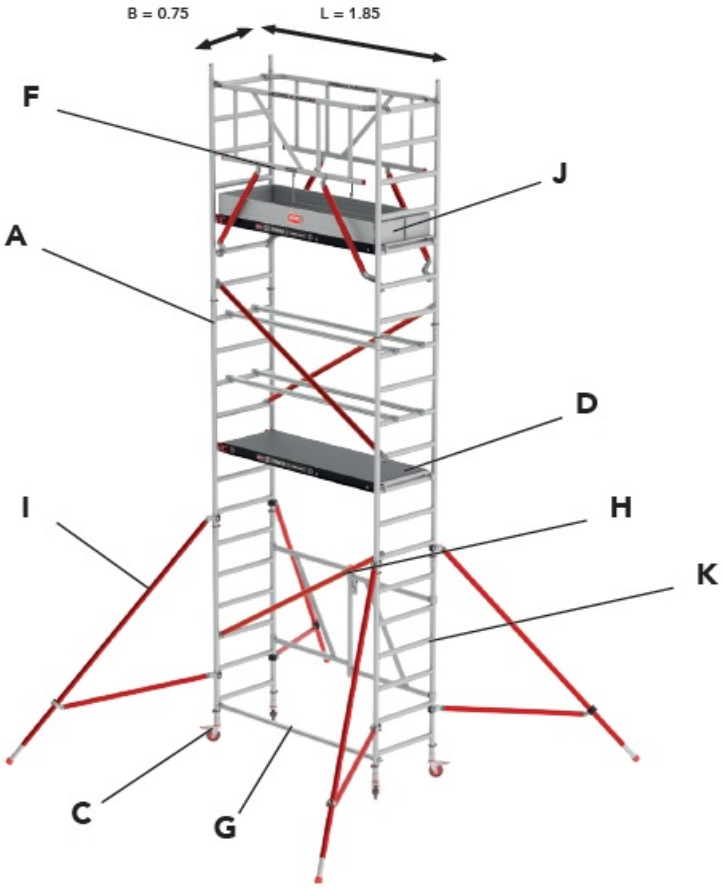



→ T8

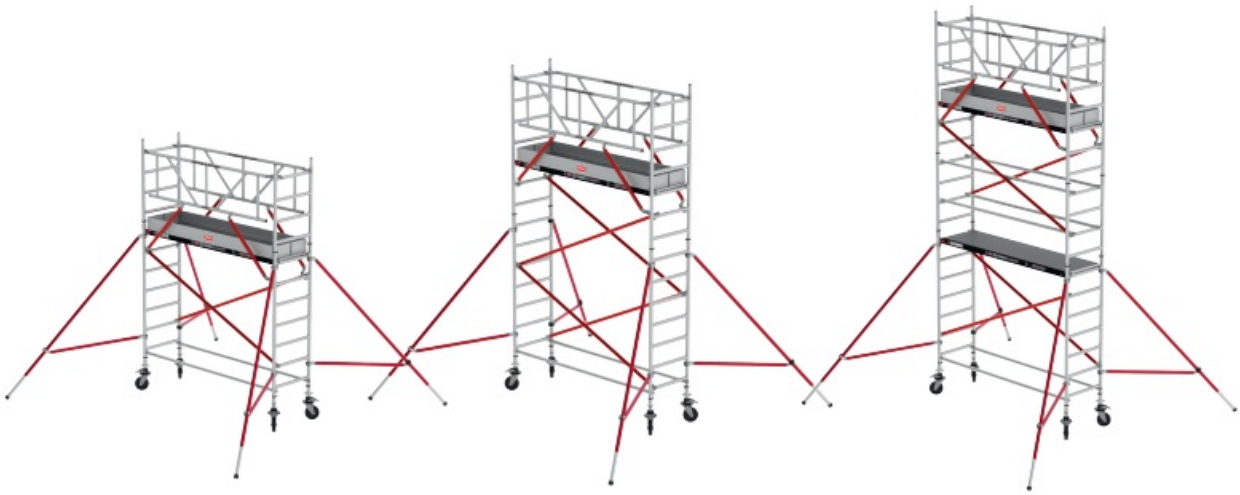

RS TOWER 51+ → T7

**C**

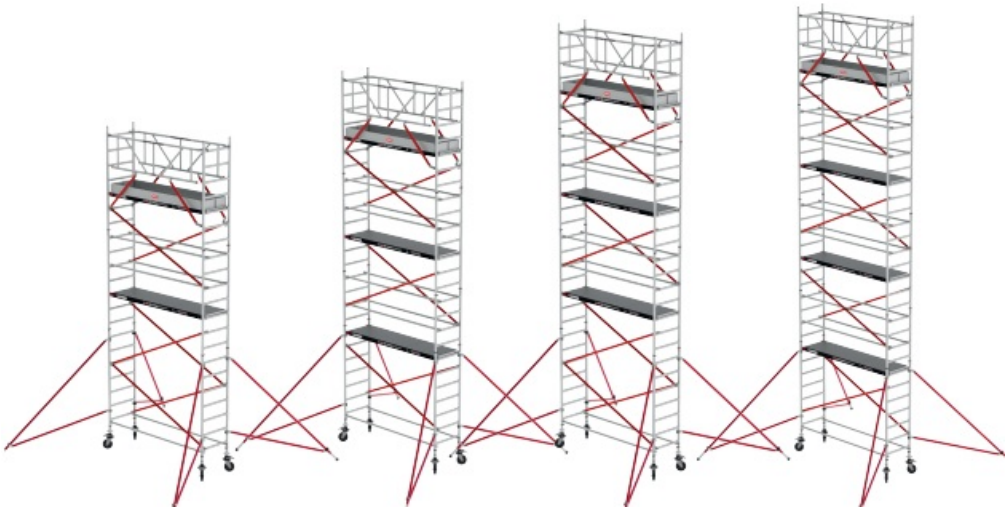
| Configuration | Attachment |
|---|---|
| RS TOWER 51 | T4 |
| RS TOWER 51+/52 | T5 |
| Configuration table and assemblies RS TOWER 51 | T6 |
| Configuration table and assemblies RS TOWER 51+ | T7 |
| Configuration table and assemblies RS TOWER 52 | T8 |
| Configuration table and assemblies RS TOWER 54 | T9 |
| Configuration table and assemblies RS TOWER 55 | T10 |
| RS TOWER 54/55 | T11 |



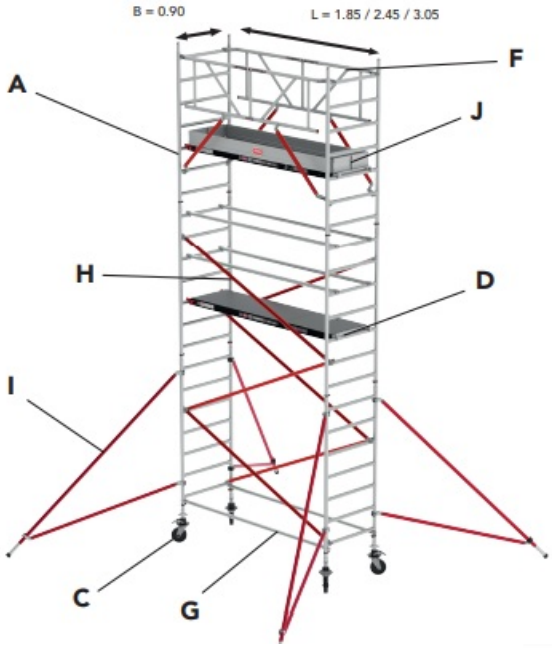
| | | | |
|---|---|---|---|
| PH | 2.20 m | 3.20 m | 4.20 m |
| WH | 4.20 m | 5.20 m | 6.20 m |

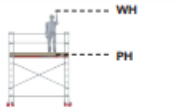


| | | | | |
|---|---|---|---|---|
| PH | 5.20 m | 6.20 m | 7.20 m | 8.20 m |
| WH | 7.20 m | 8.20 m | 9.20 m | 10.20 m |



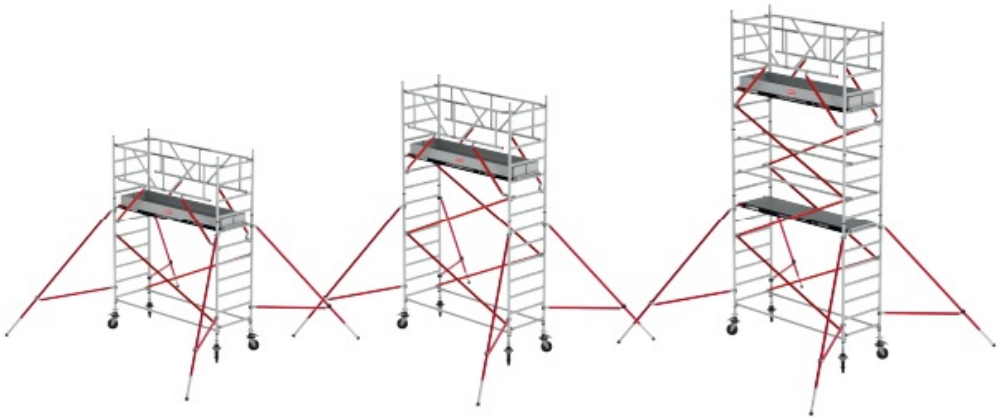
**T7. RS TOWER 51+**



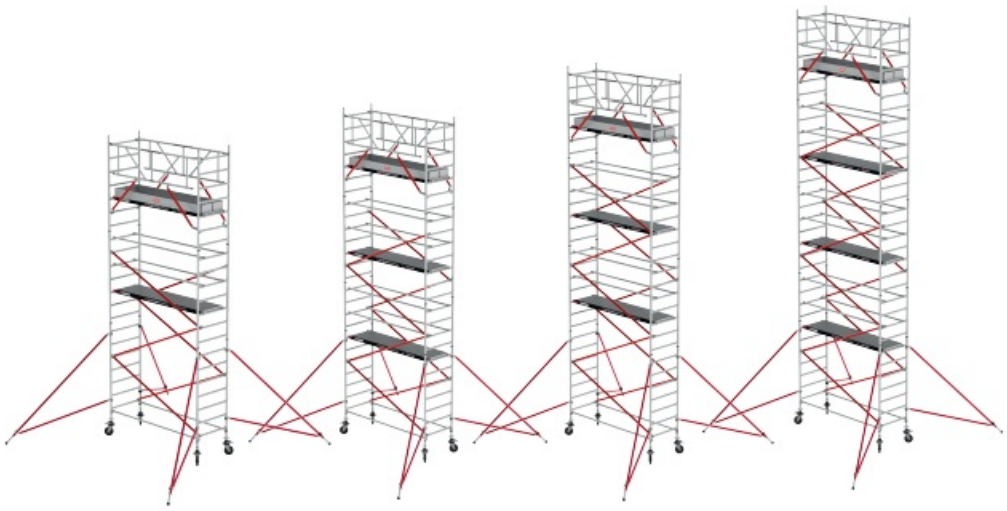




| PH | 2.20 m | 3.20 m | 4.20 m | 5.20 m | 6.20 m | 7.20 m | 8.20 m | 9.20 m | 10.20 m | 11.20 m | 12.20 m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WH | 4.20 m | 5.20 m | 6.20 m | 7.20 m | 8.20 m | 9.20 m | 10.20 m | 11.20 m | 12.20 m | 13.20 m | 14.20 m |
| A | 2 | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 |
| B | 2 | - | 2 | - | 2 | - | 2 | - | 2 | - | 2 |
| C | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| D | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 |
| E | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| F | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| G | 2 | 6 | 6 | 6 | 10 | 10 | 14 | 14 | 18 | 18 | 22 |
| H | 2 | 4 | 6 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| I-1 | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| I-2 | 4 | 4 | 4 | - | - | - | - | - | - | - | - |
| J | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

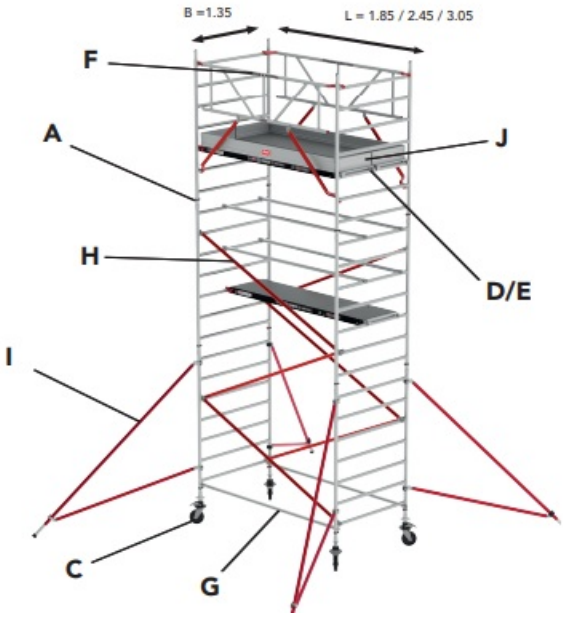
| PH | 2.20 m | 3.20 m | 4.20 m |
|---|---|---|---|
| WH | 4.20 m | 5.20 m | 6.20 m |

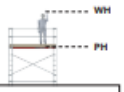


| | | | | |
|---|---|---|---|---|
| PH | 5.20 m | 6.20 m | 7.20 m | 8.20 m |
| WH | 7.20 m | 8.20 m | 9.20 m | 10.20 m |



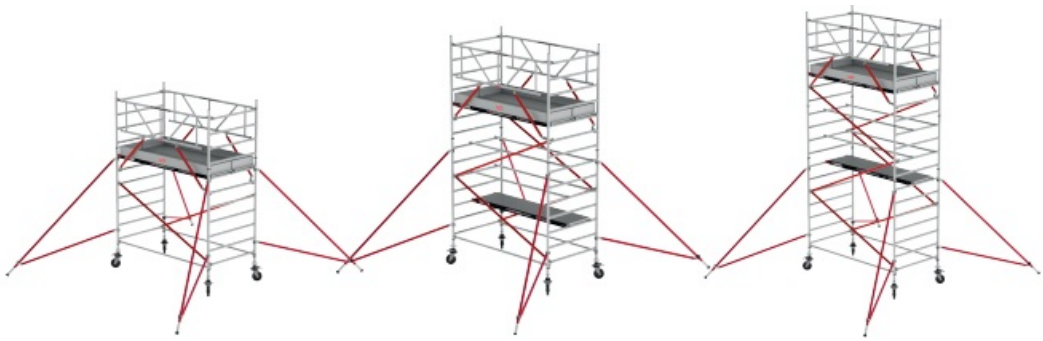
**T8. RS TOWER 52**



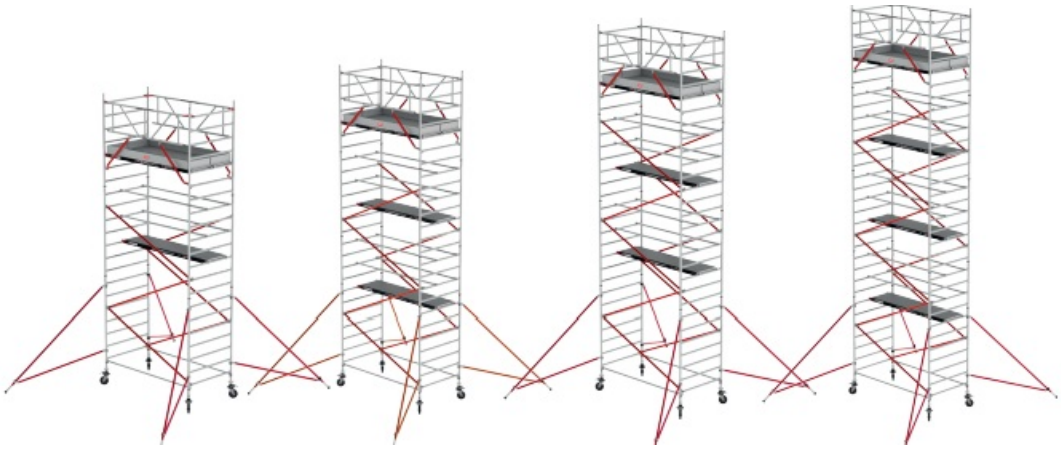



| PH | 2.20 m | 3.20 m | 4.20 m | 5.20 m | 6.20 m | 7.20 m | 8.20 m |
|---|---|---|---|---|---|---|---|
| WH | 4.20 m | 5.20 m | 6.20 m | 7.20 m | 8.20 m | 9.20 m | 10.20 m |
| A | 2 | 4 | 4 | 6 | 6 | 8 | 8 |
| B | 2 | - | 2 | - | 2 | - | 2 |
| C | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| D | 1 | 2 | 2 | 2 | 3 | 3 | 4 |
| F | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| G | 2 | 6 | 6 | 6 | 10 | 10 | 14 |
| H | 2 | 4 | 6 | 6 | 8 | 10 | 12 |
| I-1 | - | - | - | 4 | 4 | 4 | 4 |
| I-2 | 4 | 4 | 4 | - | - | - | - |
| J | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

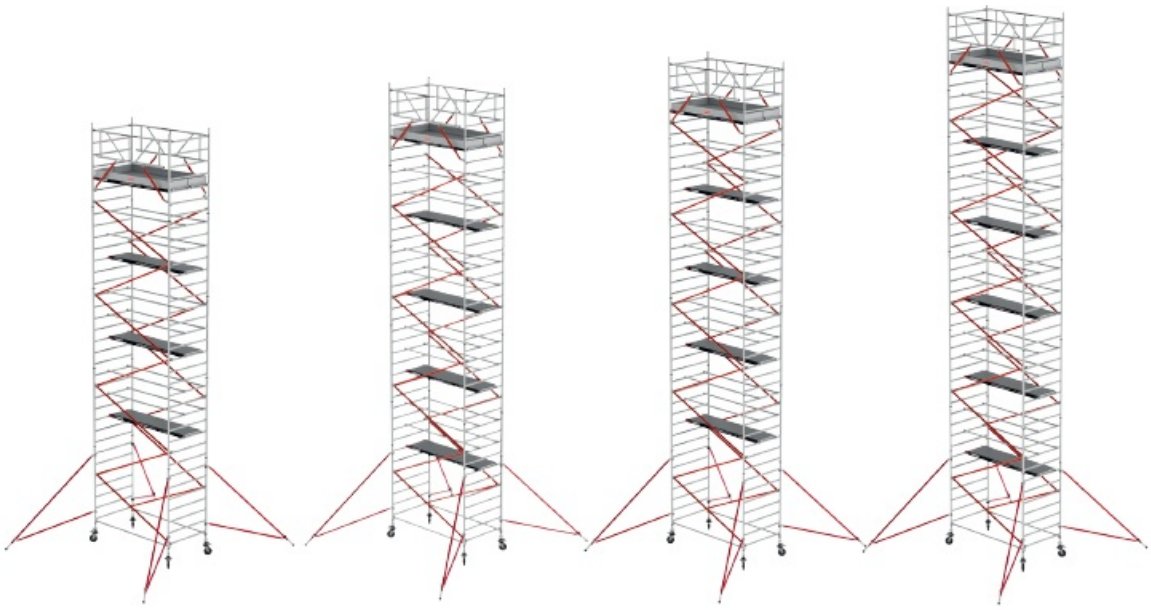
| PH | 2.20 m | 3.20 m | 4.20 m |
|---|---|---|---|
| WH | 4.20 m | 5.20 m | 6.20 m |



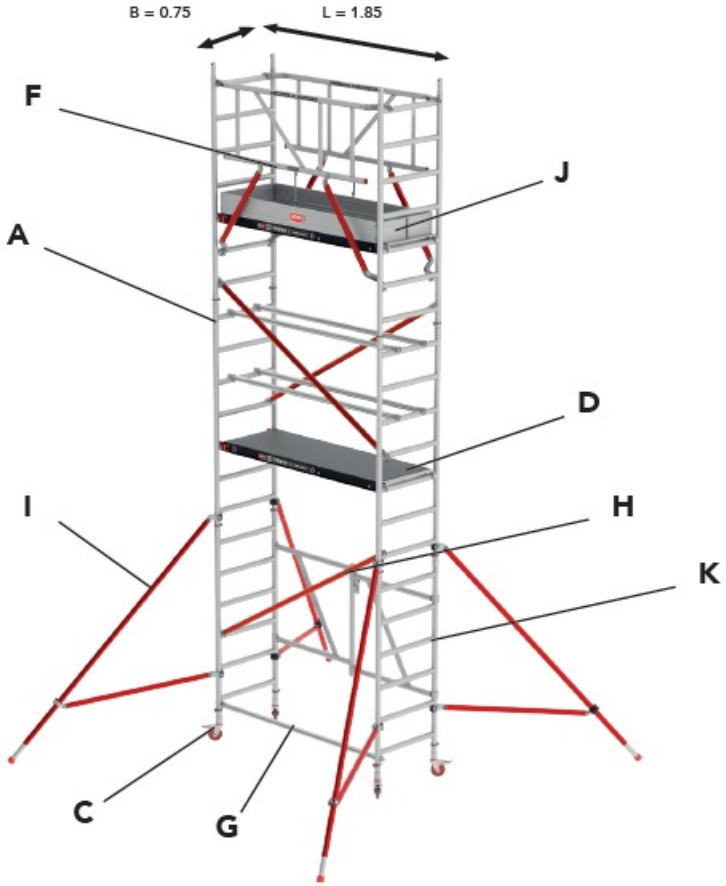
| PH | 5.20 m | 6.20 m | 7.20 m | 8.20 m |
|---|---|---|---|---|
| WH | 7.20 m | 8.20 m | 9.20 m | 10.20 m |



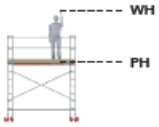
| PH | 9.20 m | 10.20 m | 11.20 m | 12.20 m |
|---|---|---|---|---|
| WH | 11.20 m | 12.20 m | 13.20 m | 14.20 m |



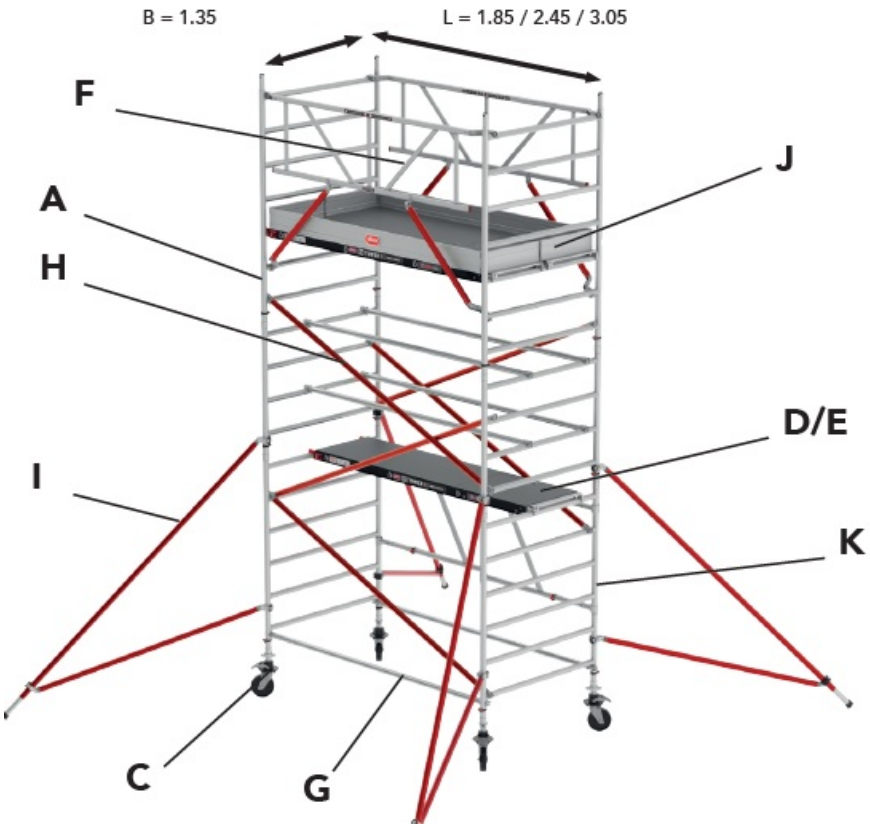
**T9. RS TOWER 54**



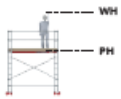
| PH | | 2.70 m | 4.70 m | 6.70 m |
|---|---|---|---|---|
| WH | | 4.70 m | 6.70 m | 8.70 m |
| K |  | 1 | 1 | 1 |
| A |  | 2 | 4 | 6 |
| C |  | 4 | 4 | 4 |
| D |  | 2 | 2 | 3 |
| F |  | 2 | 2 | 2 |
| G |  | 1 | 5 | 9 |
| H |  | 1 | 3 | 5 |
| I-1 |  | - | 4 | 4 |
| I-2 |  | 4 | - | - |
| J |  | 1 | 1 | 1 |



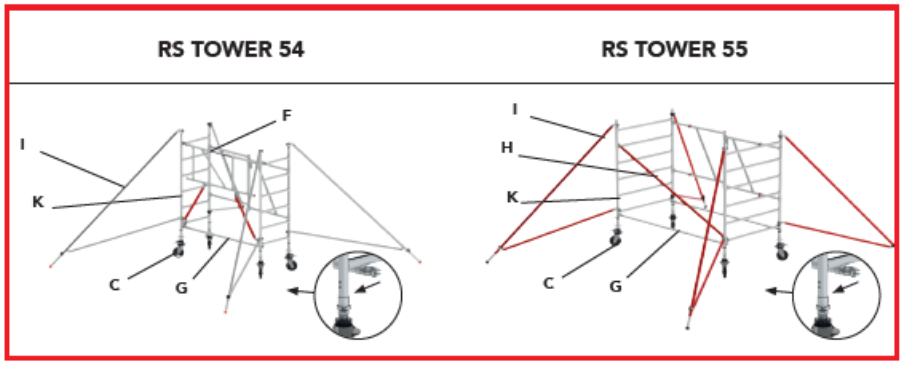

**T10. RS TOWER 55**



| PH | 1.80 m | 3.80 m | 5.80 m | 7.80 m | 9.80 m | 11.80 m |
|---|---|---|---|---|---|---|
| WH | 3.80 m | 5.80 m | 7.80 m | 9.80 m | 11.80 m | 13.80 m |
| K | 1 | 1 | 1 | 1 | 1 | 1 |
| A | 0 | 2 | 4 | 6 | 8 | 10 |
| B | 2 | 2 | 2 | 2 | 2 | 2 |
| C | 4 | 4 | 4 | 4 | 4 | 4 |
| D | 1 | 2 | 3 | 4 | 5 | 6 |
| E | 1 | 1 | 1 | 1 | 3 | 3 |
| F | 2 | 2 | 2 | 2 | 2 | 2 |
| G | 2 | 6 | 10 | 14 | 18 | 22 |
| H | 1 | 5 | 7 | 11 | 15 | 19 |
| I-1 | - | - | 4 | 4 | 4 | 4 |
| I-2 | 4 | 4 | - | - | - | - |
| J | 1 | 1 | 1 | 1 | 1 | 1 |




**T11. RS TOWER 54/55**




**T12.**
**RS TOWER 51**

| | | | | | | | | # | | | 5kg | | | # 5kg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **KG** | | | | | | **Indoor use** | | | | | | **Outdoor use** | | | | | |
| **PH** | **WH** | Wood<br>**1.85 2.45 3.05** | | | Fiber-Deck®<br>**1.85 2.45 3.05** | | | Wood<br>**1.85 2.45 3.05** | | | Fiber-Deck®<br>**1.85 2.45 3.05** | | | Wood<br>**1.85 2.45 3.05** | | | Fiber-Deck®<br>**1.85 2.45 3.05** | | |
| **2.20 m** | **4.20 m** | 115 | 125 | 136 | 111 | 120 | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3.20 m** | **5.20 m** | 147 | 163 | 181 | 139 | 153 | 168 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4.20 m** | **6.20 m** | 156 | 172 | 190 | 148 | 162 | 177 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5.20 m** | **7.20 m** | 174 | 190 | 209 | 166 | 180 | 196 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 |
| **6.20 m** | **8.20 m** | 205 | 227 | 251 | 193 | 212 | 233 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 3 | 4 |
| **7.20 m** | **9.20 m** | 215 | 238 | 263 | 203 | 223 | 244 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 6 | 6 | 6 | 8 |
| **8.20 m** | **10.20 m** | 245 | 274 | 305 | 229 | 254 | 280 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 7 | 8 | 7 | 8 | 9 |

**RS TOWER 51 PLUS**

| **RS TOWER 51 PLUS** | | | | | | | | # | | | 5kg | | | # 5kg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **KG** | | | | | | **Indoor use** | | | | | | **Outdoor use** | | | | | |
| **PH** | **WH** | Wood<br>**1.85** | **2.45** | **3.05** | Fiber-Deck®<br>**1.85** | **2.45** | **3.05** | Wood<br>**1.85** | **2.45** | **3.05** | Fiber-Deck®<br>**1.85** | **2.45** | **3.05** | Wood<br>**1.85** | **2.45** | **3.05** | Fiber-Deck®<br>**1.85** | **2.45** | **3.05** |
| **2.20 m** | **4.20 m** | 118 | 128 | 139 | 114 | 123 | 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3.20 m** | **5.20 m** | 151 | 167 | 185 | 143 | 157 | 172 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4.20 m** | **6.20 m** | 165 | 182 | 200 | 157 | 172 | 188 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5.20 m** | **7.20 m** | 180 | 196 | 215 | 172 | 186 | 202 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 |
| **6.20 m** | **8.20 m** | 215 | 238 | 264 | 203 | 223 | 245 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 3 | 3 | 3 | 4 |
| **7.20 m** | **9.20 m** | 226 | 250 | 276 | 214 | 235 | 257 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 6 | 6 | 6 | 7 |
| **8.20 m** | **10.20 m** | 262 | 292 | 325 | 246 | 272 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 9 | 8 | 8 | 10 |

**RS TOWER 52**

| | | | | | | | | # | | | 5kg | | | # 5kg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **KG** | | | | | | **Indoor use** | | | | | | **Outdoor use** | | | | | |
| **PH** | **WH** | Wood<br>**1.85** | **2.45** | **3.05** | Fiber-Deck®<br>**1.85** | **2.45** | **3.05** | Wood<br>**1.85** | **2.45** | **3.05** | Fiber-Deck®<br>**1.85** | **2.45** | **3.05** | Wood<br>**1.85** | **2.45** | **3.05** | Fiber-Deck®<br>**1.85** | **2.45** | **3.05** |
| **2.20 m** | **4.20 m** | 142 | 156 | 172 | 134 | 146 | 159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3.20 m** | **5.20 m** | 177 | 197 | 220 | 165 | 182 | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4.20 m** | **6.20 m** | 194 | 215 | 238 | 182 | 199 | 219 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| **5.20 m** | **7.20 m** | 210 | 231 | 255 | 198 | 216 | 235 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 1 | 0 |
| **6.20 m** | **8.20 m** | 249 | 276 | 306 | 233 | 256 | 281 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 1 | 6 | 4 | 2 |
| **7.20 m** | **9.20 m** | 262 | 289 | 321 | 246 | 269 | 295 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 5 | 4 | 10 | 6 | 5 |
| **8.20 m** | **10.20 m** | 301 | 334 | 373 | 280 | 309 | 341 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 8 | 6 | 12 | 9 | 7 |
| **9.20 m** | **11.20 m** | 314 | 348 | 387 | 293 | 323 | 355 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| **10.20 m** | **12.20 m** | 352 | 393 | 439 | 328 | 363 | 401 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| **11.20 m** | **13.20 m** | 365 | 406 | 453 | 341 | 376 | 415 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| **12.20 m** | **14.20 m** | 404 | 451 | 505 | 375 | 416 | 460 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X | X | X | X |

**RS TOWER 54**

| **RS TOWER 54** | | | | # | 5kg | # | 5kg |
|---|---|---|---|---|---|---|---|
| | | **KG** | | **Indoor use** | | **Outdoor use** | |
| **PH** | **WH** | Wood<br>**1.85** | Fiber-Deck®<br>**1.85** | Wood<br>**1.85** | Fiber-Deck®<br>**1.85** | Wood<br>**1.85** | Fiber-Deck®<br>**1.85** |
| **0.75 m** | **2.75 m** | 47 | 42 | 0 | 0 | 0 | 0 |
| **1.60 m** | **3.60 m** | 100 | 96 | 0 | 0 | 0 | 0 |
| **2.70 m** | **4.70 m** | 127 | 119 | 0 | 0 | 0 | 0 |
| **4.80 m** | **6.80 m** | 171 | 163 | 0 | 0 | 0 | 1 |
| **6.70 m** | **8.70 m** | 212 | 200 | 0 | 0 | 4 | 5 |

**RS TOWER 55**

| **RS TOWER 55** | | | | | | | | # | | | 5kg | | | # 5kg | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **KG** | | | | | | **Indoor use** | | | | | | **Outdoor use** | | | | | |
| **PH** | **WH** | Wood<br>**1.85** | **2.45** | **3.05** | Fiber-Deck®<br>**1.85** | **2.45** | **3.05** | Wood<br>**1.85** | **2.45** | **3.05** | Fiber-Deck®<br>**1.85** | **2.45** | **3.05** | Wood<br>**1.85** | **2.45** | **3.05** | Fiber-Deck®<br>**1.85** | **2.45** | **3.05** |
| **1.00 m** | **3.00 m** | 68 | 76 | 86 | 60 | 66 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1.80 m** | **3.80 m** | 137 | 151 | 166 | 129 | 141 | 153 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3.80 m** | **5.80 m** | 195 | 215 | 237 | 183 | 200 | 218 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5.80 m** | **7.80 m** | 254 | 281 | 311 | 238 | 261 | 285 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | 2 | 1 |
| **7.80 m** | **9.80 m** | 306 | 339 | 377 | 285 | 314 | 345 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 6 | 4 | 11 | 7 | 5 |
| **9.80 m** | **11.80 m** | 353 | 393 | 438 | 329 | 363 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X | X | X | X |
| **11.80 m** | **13.80 m** | 405 | 451 | 504 | 377 | 416 | 459 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X | X | X | X |

**RS TOWER 51 (75 cm rolling tower)**
**A.Base section**

| A1: Odd working height | A2: Even working height |
|---|---|
| 1. Start with two 7 rung frames (part T2.A) | 1. Start with two 7 rung frames (part T2.A) |
| 2. Place the wheels (part T2.C) in the frames, apply the brake and<br>point them outwards [T3.1 – T3.3] | 2. Place the wheels (part T2.C) in the frames, apply the brake and<br>point them outwards [T3.1 – T3.3] |
| 3. Place horizontal braces (part T2.G) under the first ru ng on the<br>uprights [T3.4 – T3.5] | 3. Place horizontal braces (part T2.G) under the firs t rung on the<br>uprights [T3.4 – T3.5] |
| 4. Place the Safe-Quick Guardrails® (part T2.F) on one side on the upper rung with the instruction label facing i nwards [T3.14 – T3.18]. | 4. Place the diagonal braces (part T2.H) (rungs 2-6) |
| 5. Place a (temporary) platform without a hatch (part T 2.E) on the 3rd<br>rung [T3.20 – T3.22] | 5. Place a (temporary) platform without a hatch (par t T2.E) on the<br>1st rung [T3.20 – 3.22] |
| 6. Adjust the base section with a spirit level by turning t he spindles | 6. Adjust the base section with a spirit level by turni ng the<br>spindles |
| 7. Mount the triangle stabilizers (part T2.I) [T3.9 – T3.1 3] | 7. Mount the triangle stabilizers (part T2.I) [T3.9 – T 3.11] |
| 8. Place the 7 rung frames (part T2.A) and secure them [T3.6 – T3.8]. | 8. Place the 4 rung frames (part T2.B) and secure t hem [T3.6 – T3.8] |
| 9. Place the diagonal braces (part T2.H) (rungs 5-9) | 9. Place a platform with a hatch (part T2.D) on the 7 th rung [T3.20 – T3.22] |
| 10. Place a platform with a hatch (part T2.D) on the 7th rung [T3.20.x – T3.22] | 10. Climb through the hatch and sit on the platform wit h the legs through the hatch and assemble the 4 horiz ontal braces (part T2.G) |
| 11. Climb through the hatch and sit on the platform with the legs through the hatch and assemble the 4 horizont al braces (part T2.G) | |
| 12. Remove the platform of the 3rd rung together with t he Safe-Quick Guardrails | |
| 13. Place the diagonal braces (part T2.H) (rungs 1-5) | |

**B. Middle section**

1. Place the 7 rung frames (part T2.A) and secure them [T3.6 – T3.8].
2. Place the diagonal braces (part T2.H) (rungs 5-9)
3. Place a platform with a hatch (part T2.D) on the 7th rung [T3.20 – T3.22].
4. Climb through the hatch and sit on the platform with the legs through the hatch and assemble the 4 horizontal braces (part T2.G)

**C. End section**

1. Place the 7 rung frames (part T2.A) and secure them [T3.6 – T3.8].
2. Place the Safe-Quick Guardrails® (part T2.F) on the upper rung with the instruction label facing inwards [T3.14 – T3.18].
3. Place a platform with hatch (part T2.D) [T3.19 – T3.22]
4. Enter the platform through the trap door and place the toe board kit (part T2.J) [T3.23 – T3.25].

**RS TOWER 51+/52 (90 / 135 cm rolling tower)**
**A.Base section**

| **A1: Odd working height** | **A2: Even working height** |
|---|---|
| 1. Start with two 7 rung frames (part T2.A) | 1. Start with two 7 rung frames (part T2.A) |
| 2. Place the wheels (part T2.C) in the frames, apply the brake and<br>point them outwards [T3.1 – T3.3] | 2. Place the wheels (part T2.C) in the frames, apply th e brake and<br>point them outwards [T3.1 – T3.3] |
| 3. Place horizontal braces (part T2.G) under the first ru ng on the<br>uprights [T3.4 – T3.5] | 3. Place horizontal braces (part T2.G) under the first r ung on the<br>uprights [T3.4 – T3.5] |
| 4. Place the diagonal braces (part T2.H) (rungs 1-5) | 4. Place the diagonal braces (part T2.H) (rungs 1-5) |
| 5. Place a (temporary) platform without a hatch (part T 2.E) on the 3rd<br>rung [T3.20 – T3.22] | 5. Place a (temporary) platform without a hatch (part T 2.E) on the<br>3rd rung [T3.30 – T3.22] |
| 6. Set the base section with a spirit level | 6. Adjust the base section with a spirit level by turning the spindles |
| 7. Mount the triangle stabilizers (part T2.I) [T3.9 – T3.1 3] | 7. Mount the triangle stabilizers (part T2.I) [T3.9 – T3.13] |
| | 8. Place the 4 rung frames and secure them [T3.6 – T 3.8] |
| | 9. Place the diagonal braces, starting on the rung whe re the previous brace ends |
| | 10. Place a platform with hatch (part T2.D) on the 7th r ung |
| | 11. Climb through the hatch and sit on the platform wit h the legs through the hatch and assemble the 4 horiz ontal braces (part T2.G) |

**B. Middle section**

1. Place the 7 rung frames (part T2.A) and secure them [T3.6 – T3.8]
2. Place the diagonal braces (part T2.H), starting on the rung where the previous brace ends
3. Place a platform with hatch (part T2.D) on the 3rd rung of the last frame fitted
4. Climb through the hatch and sit on the platform with the legs through the hatch and assemble the 4 horizontal braces (part T2.G)

**C: End section**

1. Place the 7 rung frames (part T2.A) and secure them [T3.6 – T3.8].
2. Place the Safe-Quick Guardrails® (part T2.F) on the upper rung with the instruction label facing inwards [T3.14 – T3.18].
3. Place a platform with hatch (part T2.D) [T3.19 – T3.22].
    - a. For a wide 135 cm scaffold, also place a platform without hatch (part T2.E) [T3.20 – T3.22].
4. Enter the platform through the trap door and place the toe board kit (part T2.J) [T3.23 – T3.25].

**Facade-free use**

If necessary for the work to be carried out, the guardrails/Safe-Quick® Guardrail on the facade side of the working platform may be repositioned. Only to be used if the distance to the facade is maximum 15 cm. Local legislation and regulations may contain supplementary measures on top of this guide.

**Assembly RS TOWER 54/55**
A. Base section

1. Put the wheels into the folding frame (part K), put the brakes on and put them in an outward direction [T3.1 – T3.3].
2. Unfold the folding frame.
3. Place the horizontal brace (part G) under the first rung on the vertical [T3.4 – T3.6].
4. Adjust the base section using a spirit level.
5. Mount a diagonal brace between the 3rd and the 7th rung.
6. Place the temporary platform (part D) on the third rung (T3.20 – T3.22].
7. After the frames mentioned in B. Middle Section are placed, mount the triangle stabilisers (part I) [T3.10 – T3.13].

For completing the assembly of the RS TOWER 54, follow steps B and C of Annex T4.
For completing the assembly of the RS TOWER 55, follow steps B and C of Annex T5.

**Control card**

After assembly, the scaffold should be provided with a control card (clearly visible from the ground) on which the following information is entered:

- Contact details responsible person
- Whether the scaffolding is ready for use
- Load class and the equalized load
- Whether the scaffolding is intended for indoor or outdoor use

- Date of assembly

### Check before use

1. Check that the rolling tower is horizontal (check using a spirit level)
2. Check that all wheels are on the brake.
3. Check that the stabilizers are properly adjusted and make good contact with the ground.
4. Check that the rolling tower is assembled in accordance with this manual and in conformity with the configuration and ballast table.
5. Check that the environmental factors, such as swinging doors ,awnings that operate automatically, aboveground electrical cables, traffic and/or passers-by, etc., do not lead to dangerous situations.
6. Check that the rolling tower can be used safely and that it is suitable for the intended purpose.

### Weight and ballast

- See Annex T12 for an overview of the total weight of the scaffold and the number of counterweights of 5 kg per wheelleg that should be used.
- If ballast is required according to the ballast table, the number of weights mentioned is placed on each wheel post (all 4 corners of the scaffolding) [T2: part L]. For example, the table lists 2 ballast weights for a scaffold configuration. This means 2 weights of 5 kg = 10 kg on each corner of the scaffolding (10×4= 40 kg total). The ballast weight holders can be used for installing the ballast weight [T2: part M].
- It is also permitted to apply the weights in an equivalent manner. For example, with an extra platform on the first rung and equip it with the weights.

### Moving the rolling tower

The rolling tower may only be moved while observing the following conditions:

1. Before moving the rolling tower, the height has to be reduced to a maximum of 6.2 metres.
2. Do not move a rolling tower in winds exceeding 12.7 m/s (max. 6 Beaufort).
3. When the rolling tower is moved, persons and/or materials may not remain on the rolling tower.
4. Beforehand, checks should be made that the environmental factors, such as swinging doors, canopies, pits, automatically functioning awnings, aboveground electrical cables, traffic and/or passers-by, etc. do not lead to dangerous situations while the scaffold is moved.
5. In order to move the scaffold, the stabilisers can only be raised to a maximum of 3 cm.
6. Before moving the rolling tower, all wheels must be removed from the brake.
7. Only move the scaffold manually in a lengthways direction, over a flat, horizontal and sufficiently load-bearing surface.
8. After moving the rolling tower, check all the points listed in Section 7 “Before Using”.

### Disassembly of the rolling tower

The scaffold should be disassembled following the instructions for assembly but in reverse order.

## Inspection, Care and Maintenance

1. Scaffolds used in a professional capacity must be inspected periodically by an expert. Local legislation and regulations may contain supplementary measures on top of this guide.
2. Scaffold parts must be handled and transported with care in order to avoid damage.
3. Storage should be organised in such a way that only undamaged parts, in the correct amounts, are available for assembly of the scaffold.
4. Check all moving parts for correct functioning and check that these are not filthy.
5. Check all parts for damage. Damaged, worn-out or incorrect parts may not be used. Replace these parts only with original Altrex parts. To prevent accidents, these parts must be mounted in the same way as the part that is replaced. Mounting (fastening) and/or repair are at your own expense and risk. Altrex shall not be liable for damage resulting from erroneous mounting and/or repair.
6. Production code (JJ-WW) can be found on: braces, the tube, frames, the upright, platforms, inside platform beams, stabilizers and the outside tube.

## Warranty conditions

Please visit www.altrex.com/warranty to view the clauses of the Altrex warranty.

## Abbreviations and logos



## Documents / Resources

| | |
|---|---|
|  | altrex 51 Plus Single Width Rolling Tower [pdf] Instruction Manual<br>51 Plus, 51 Plus Single Width Rolling Tower, Single Width Rolling Tower, Width Rolling Tower, R olling Tower, Tower |

## References

- Relax. It's an Altrex | Altrex
- Warranty conditions | Warranty
- User Manual