

duarib

Novateur sur toutes les hauteurs

Route de la Limouzinière BP41

44310 Saint Philbert de Grand Lieu

Phone : +33 (0)2 40 78 97 22

Fax: +33 (0)2 40 78 78 71



D040379A

DOCKER

mini

Compliant with Decree n° 2004-924 from 01/09/2004
Compliant with norm NF EN 1004
excluding floor size: width < 0,6 m

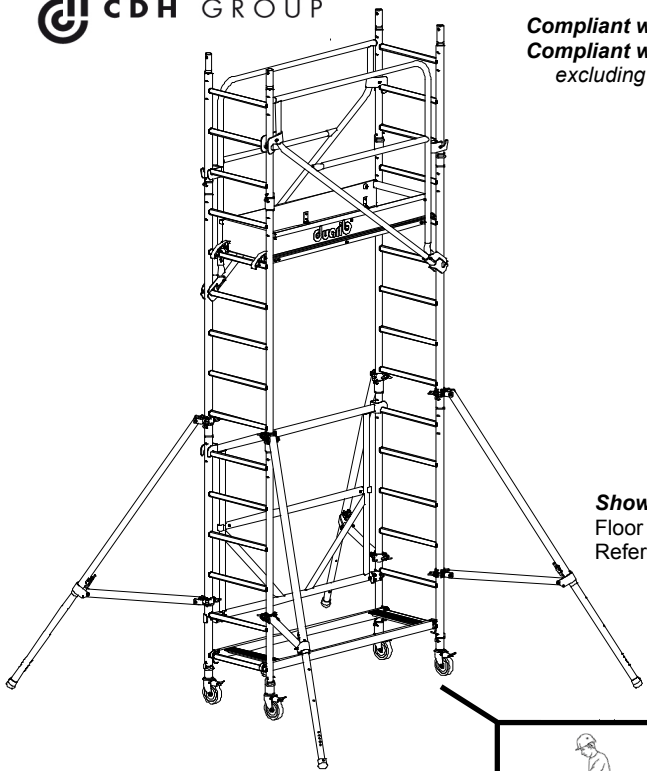
ASSEMBLY, DISASSEMBLY, AND USER MANUAL

User manual NF EN 1298

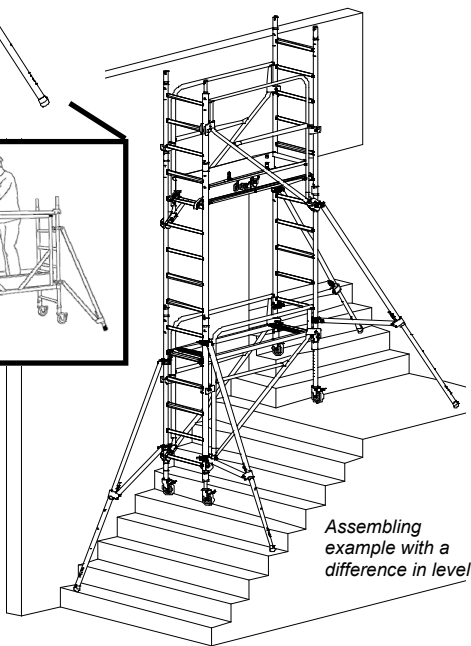
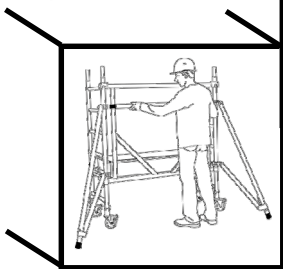
Showcase model:

Floor height: 2.8m

Reference 150203



FABRICATION
FRANÇAISE



Assembling
example with a
difference in level

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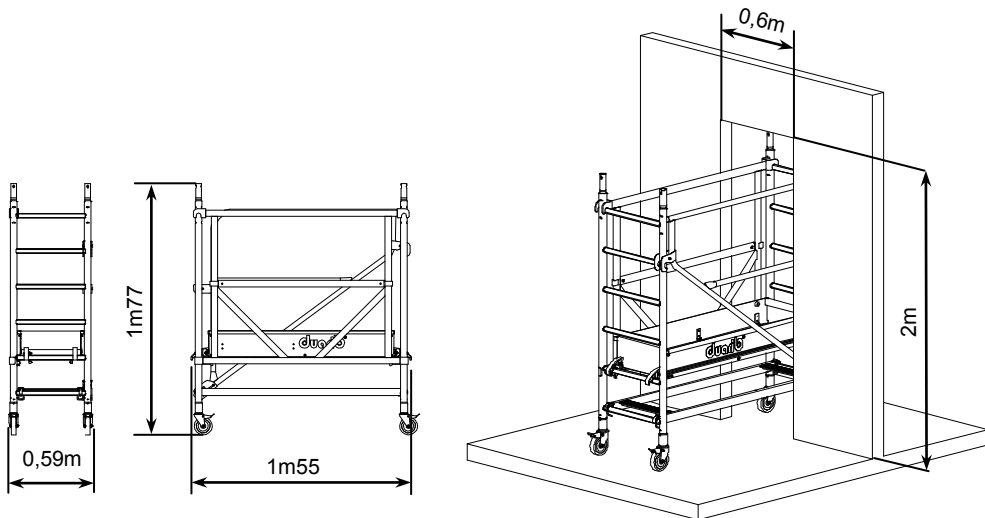
Aluminum structure

Aluminum floor structure and nonslip CTBX wood surface

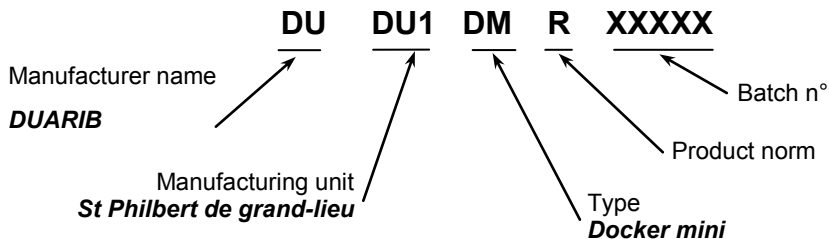
Ø125 Brake wheel with a max service load of 150 kg

Wheel adjustment done by pin over 36cm, every 3 cm.

Safe assembly of all the elements can be set up by one person, for all combination.



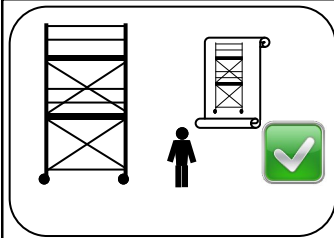
Mark description:



Floor height limit:

Floor height limit when used and when moving	4,3 m
Minimum floor height	0,6 m

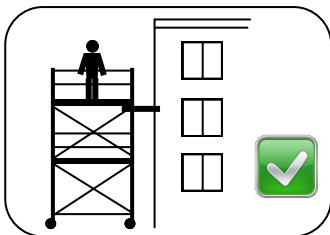
Safety measures



- Any operation must be performed by a qualified staff member following the order described in this user manual, the labour legislation and the current laws, particularly the decree dating from December 21st, 2004, dealing with scaffolding tests as well as the decree dating from September 1st, 2004, dealing with scaffolding use.
- Only use DUARIB-made pieces referenced in the nomenclature and that are in good condition.
- For any use not described in the user guide, please contact the manufacturer.
- For any operation, please check the tightening of the stabilizers and that the wheels are locked.
- Check that all the parts are pinned and that security features are locked.
- Respect the assembly order described in this user guide to the letter.



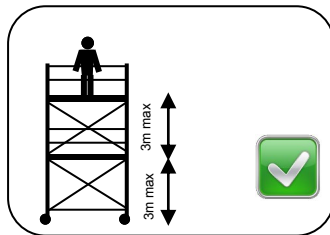
- Wearing **Personal Protective Equipment** is mandatory for any operation.
- Elements can be lifted up by any appropriate means (like a rope).
- Note that using a post and braces or a winch is forbidden.



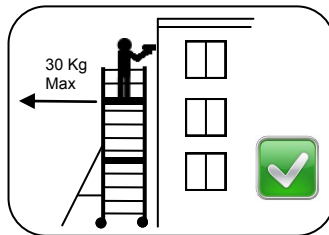
- You can anchor the scaffolding to a building or any other surface that can bear the stress.
- Anchor the scaffolding on the top part at the end of each operation or disassemble it.



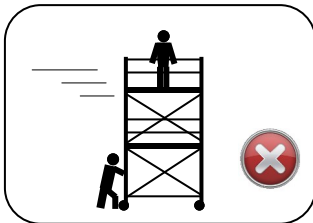
- In case you need to anchor, make sure the structure is resistant enough (cf. table on page 3 about maximum support stress).



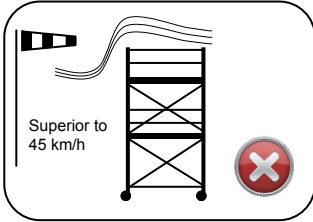
- According to the current regulation, the space between two floors cannot exceed 3 m.



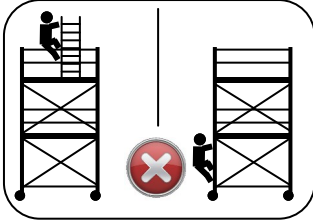
- The operator must not exert a horizontal pressure superior to 30 kg.



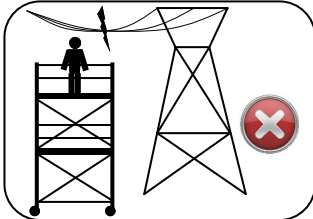
- All 4 wheels must always touch the ground in order to support the work load and the structure's own weight. (maximum load on one wheel: 150 kg)
- Make sure the wheels and stabilizers are not on soft ground, otherwise widen the supporting surface with a wedge (cf. table on page 3 about maximum stress to support).
- The scaffolding can only be manually moved on solid ground (for a loose ground, plan a roll out walkway), free of obstacles, personnel or tools, with the space between stabilizers and the ground being very low ($\approx 3\text{cm}$).
- It is forbidden to move a rolling scaffolding on a ground that has a slope exceeding 3%.



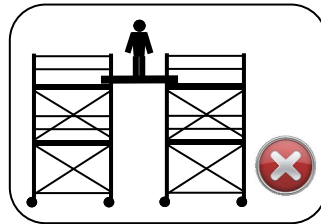
- Do not assemble, use or move the scaffolding if the wind speed exceeds 45 kmph.
- The scaffolding must be secured if the wind is superior to 45 kmph, either by anchoring it or disassembling it.
- It is mandatory to disassemble the scaffolding if the wind exceeds 85 kmph.
- Beware of turbulences when near the angle of a building or under a porch.



- It is strictly forbidden to extend the work height over the one mentioned in this user guide.
- It is forbidden to set up a ladder or any other accessory on the floor to extend the work height.
- It is forbidden to modify the rolling scaffolding's structure by adding post and braces, a winch or any other structure.
- It is forbidden to add canvas sheets or nets.
- Adjusting the wheels is only used to make up for the floors' split levels.
- Only go up or down the scaffolding through the trapdoors in the floors.

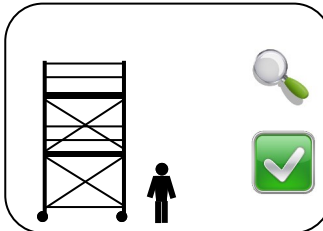


- Before assembling, moving, using a rolling scaffolding, you must make sure that no electric plugs (take into account the length of the handled materials) are within 3m for a tension below 50000 volts and within 5m for a tension above 50000 volts.



- It is forbidden to jump on floors.
- It is forbidden to create a bridge between a rolling scaffolding and a building or any other fixed or mobile structure.
- It is forbidden to use planks as a floor.

Maintenance and servicing:



Before any operation, you must check the elements of the scaffolding to see if any could be defective. You must make sure that:

- Stabilizers and wheels as well as their brakes work as intended.
- Ladder rungs are clean so they remain nonslip.
- The plywood and the trapdoors of the floor as well as the hooks are in good conditions.
- Stickers can be easily read.
- Elements fit together and that they are visually in good shape.
- Pins and all lock mechanisms (base body, diagonal braces, floors, safety rails) work properly.
- If need be and if in doubt, replace the faulty element with a DUARIB replacement.

The person in charge of the scaffolding is responsible for the checklist before any assembly, as well as daily and quarterly inspections. He must be able to provide these inspections and their results should the need arises.

DOCKER MINI

Product code			wall 150200M	150200	150201	150202	150203	150204	150205
Floor height (m)			0.6	0.6	1.3	2.1	2.8	3.6	4.3
Work height (m)			2.6	2.6	3.3	4.1	4.8	5.6	6.3
Reference	Description	Wt.	Quantities						
150100	∅125 wheel 150Kg load	3	4	4	4	4	4	4	4
150101	Horizontal base body	2.8	0	1	1	1	1	1	1
150102	Vertical base body	4.2	1	1	1 *	1	1	1 *	1
150103	1.5m ladder (6 rungs)	4.2	2	2	2	3	4	5	6
150104	0.75m ladder (3 rungs)	2.4	0	0	2	2	2	2	2
150106	EXMDS mini safety rail	4.2	0	1	2	2	2	4	4
150108	Floor w/ integrated toe-bars	11.3	1	1	1	1	1	2	2
150109	Docker mini stabilizer	3.8	2	4	4	4	4	4	4
150110	Pin	0.1	4	4	8	10	12	14	16
150105	Difference on a level braces	0.9	0	0	2	2	2	2	2
Total weight (kg)			44	58	69	74	78	102	106

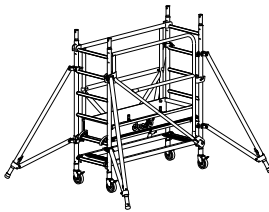
(non contractual schematic)

* included but is not used for the assembly of this configuration

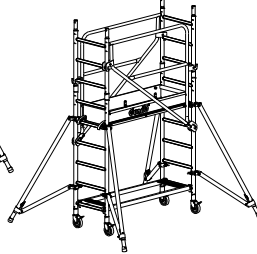
Reference 150200 M
Wall version



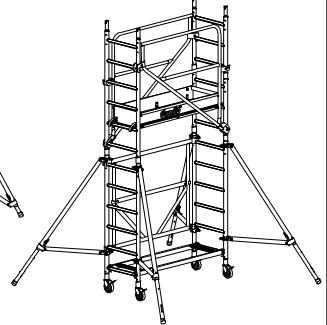
Reference 150200



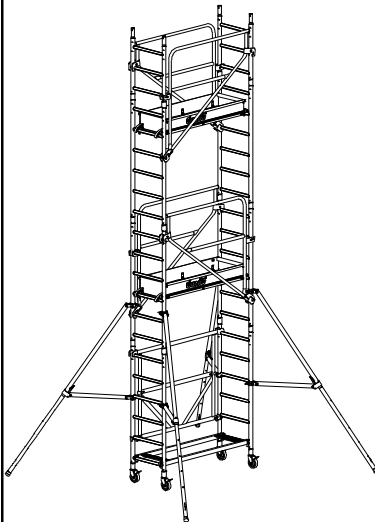
Reference 150201



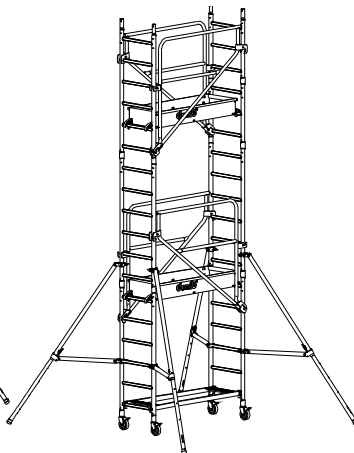
Reference 150202



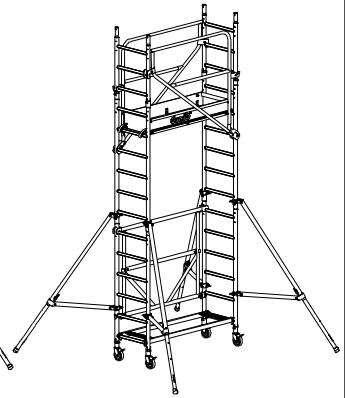
Reference 150205



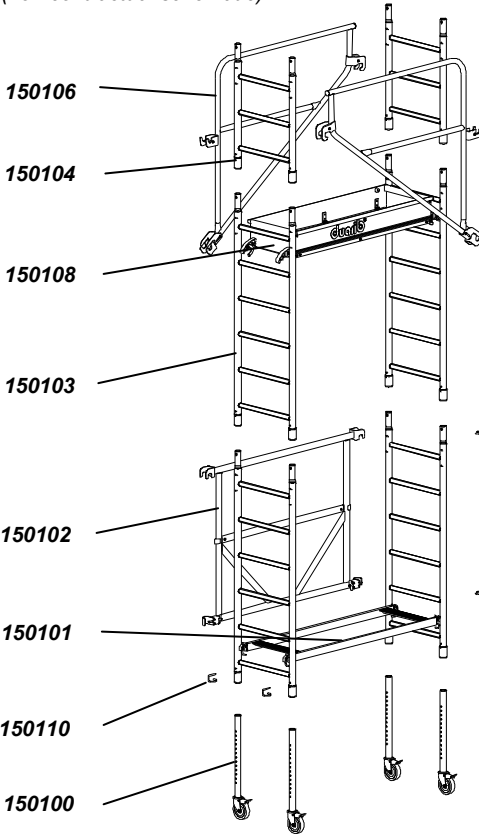
Reference 150204



Reference 150203



(non contractual schematic)



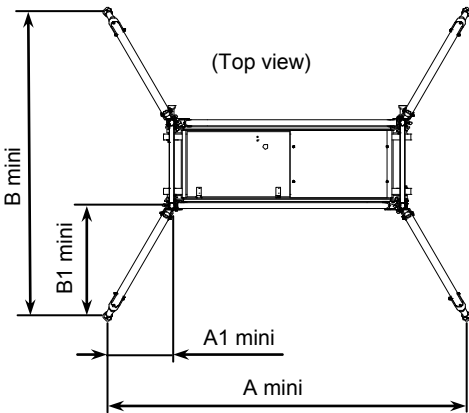
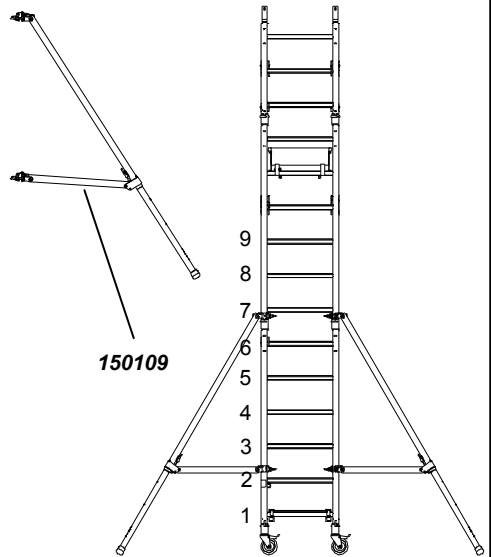
LOADING CONDITIONS:

Loading on 1 floor

Max floor load 150 daN

Max horizontal pressure 30 daN

(1 daN ≈ 1 Kg)



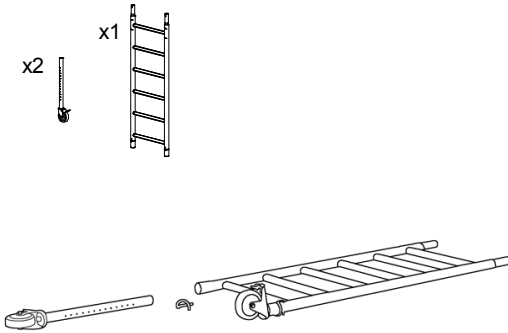
Minimum stability distances in mm

Position close to	Floor Height	A1 mini	B1 mini	A mini	B mini
5 th rung	0.6m	49	190	1540	900
5 th rung	1.3m	199	380	1840	1280
6 th rung	2.1m	389	580	2220	1680
7 th rung	2.8m	589	790	2620	2100
8 th rung	3.6m	609	850	2660	2220
9 th rung	4.3m	779	1020	3000	2560

In case your worksite prevents you from following the stabilizer's docking position, please refer to the special cases on page 15.

Docker Mini assembly instructions

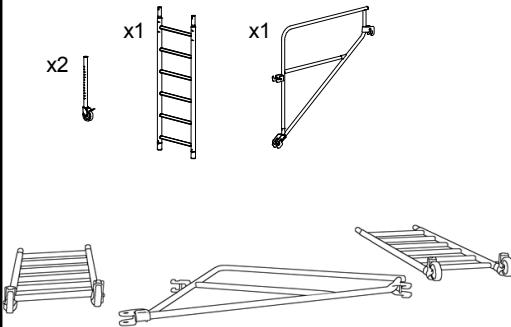
1 Insert 2 wheels in the 6 rung 1.5m ladder.



2 Pin the wheels.
Lock the wheels' brake.



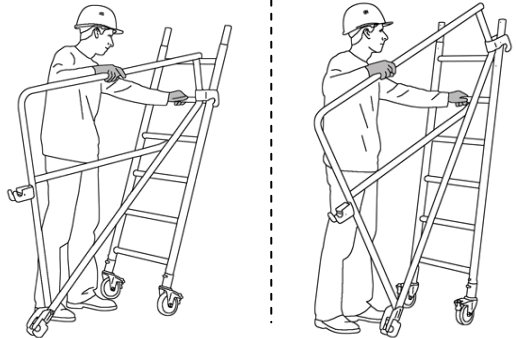
3 Repeat steps 1 and 2 to outfit the second ladder.
Bring a safety rail next to both ladders.



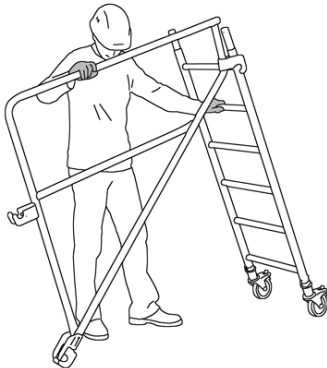
4 Set the safety rail to the ladder.

At the 5th rung for combination 150200 and 150200 M.

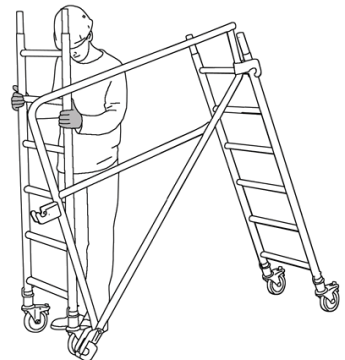
At the 6th rung for all other combinations.



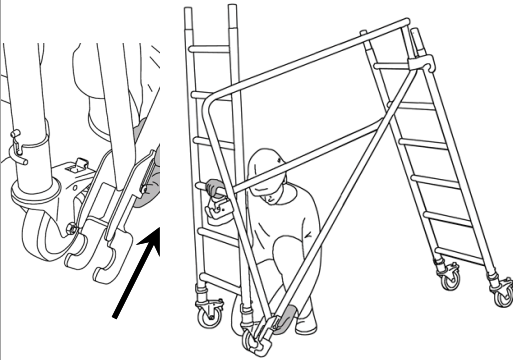
5 Set the safety rail on the ground.



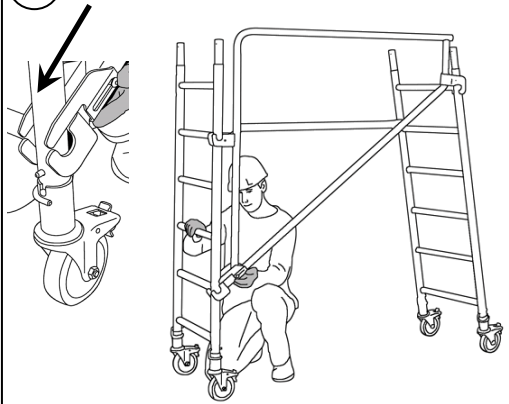
6 Bring the other ladder next to the safety rail lock.



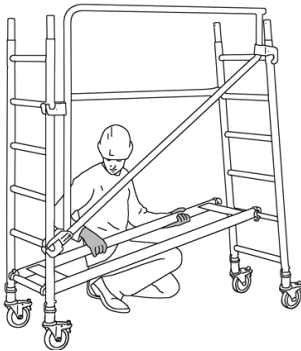
7 Open the safety rail's lock.



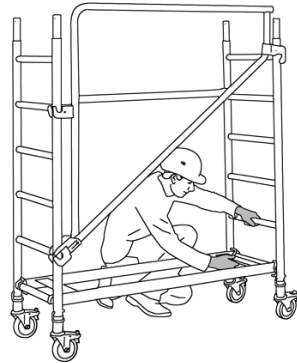
8 With the lock open, set both hooks of the safety rail. Close the lock until it stops.



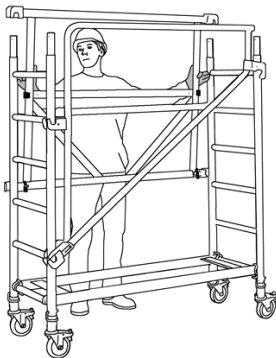
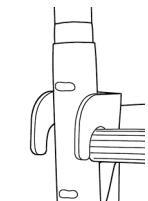
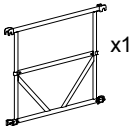
9 Set one side of the horizontal base body. Check the automatic lock of the base body.



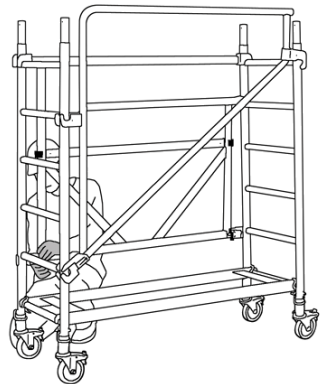
10 Set the other side of the horizontal base body. The locks close automatically.



11 For combinations 150201 and 150204, skip forward to step 13 to set up the ladders. Otherwise, set the horizontal base body. First, set the hooks on the upper part on each side.

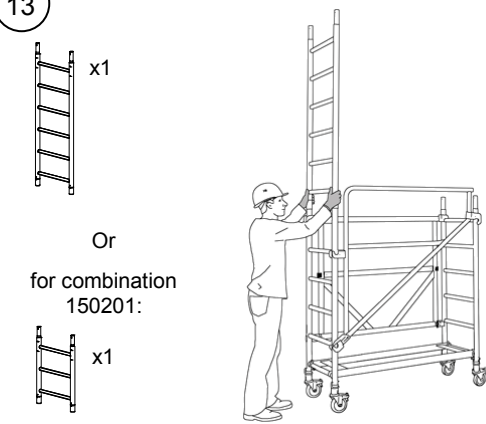


12 Then in the lower part, set the locks on each side. Check the lock is under the rung.

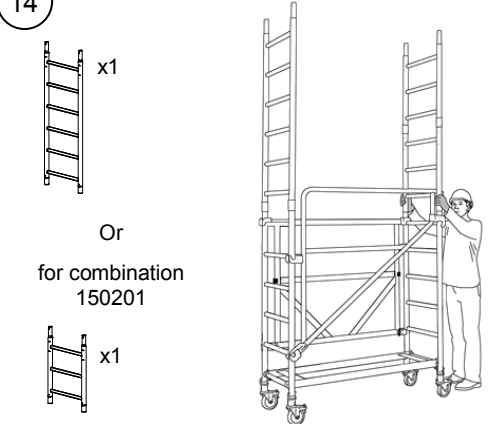


Docker Mini assembly instructions

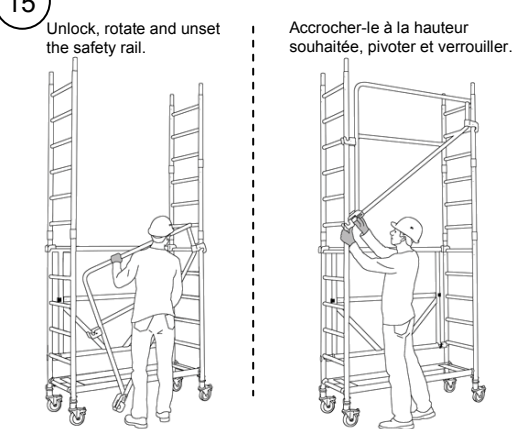
13 Set the ladder on one side.



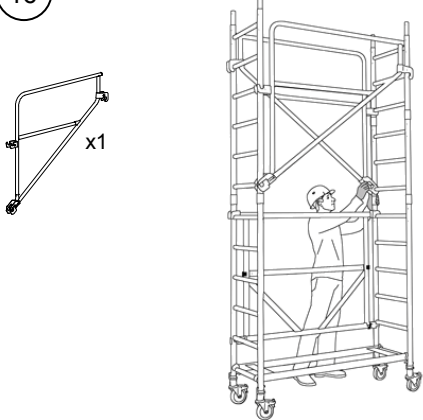
14 Set the ladder on the other side.



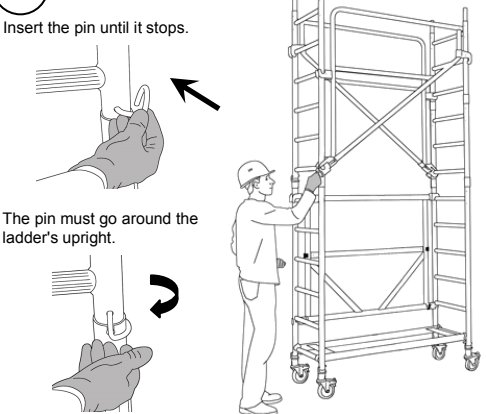
15 Reset the safety rail at the desired height.



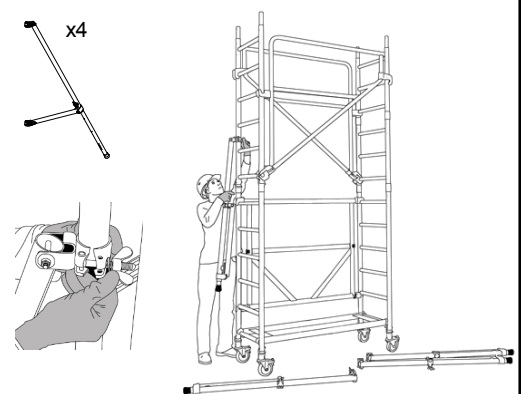
16 Set the second safety rail the same way.



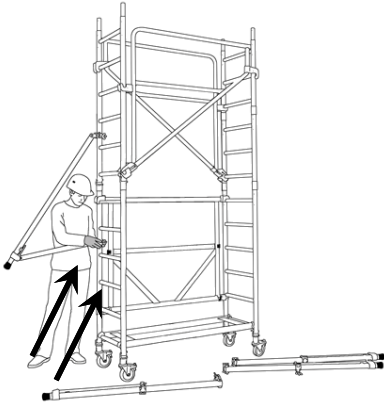
17 Set the pins.



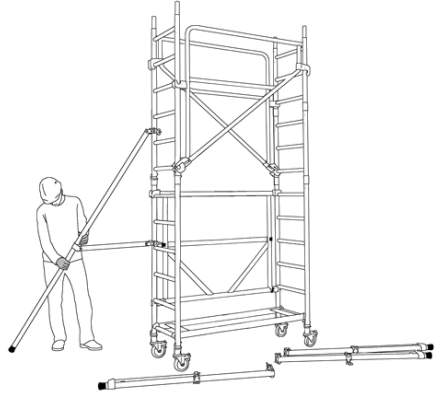
18 Set the stabilizers. Follow the recommended instructions on the table on page 7. Set the upper part with a tightening collar.



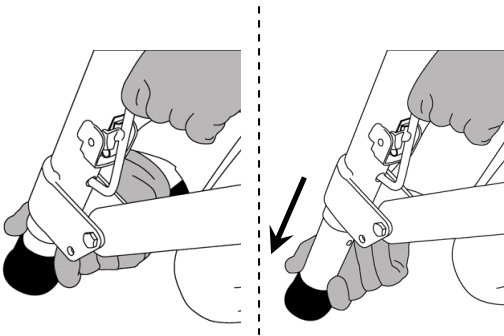
19 Set the horizontal brace without tightening the collar.



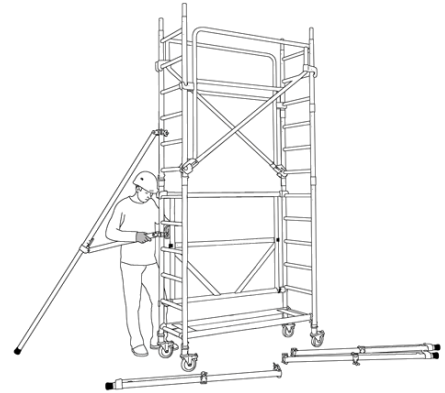
20 Deploy the runner which is the closest to the ground by activating the trigger.



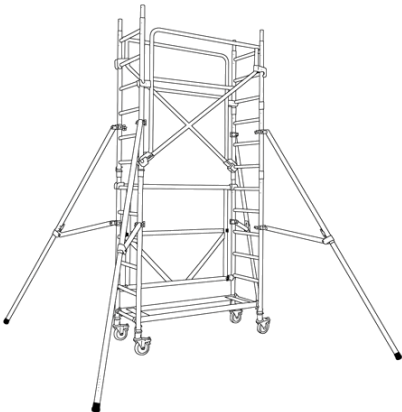
21 Present a hole in front of the trigger to pin the runner. Check the elements are locked together.



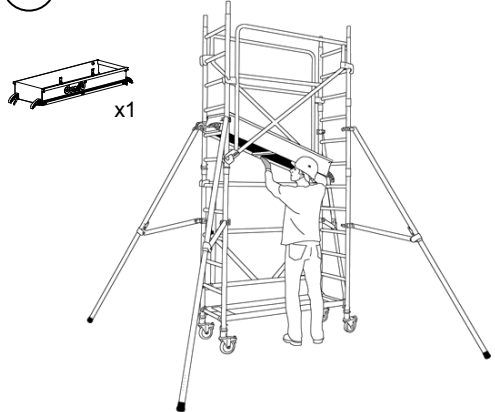
22 Reposition the brace's collar to exert force on the stabilizer. Tighten the collars.



23 Repeat the operation to set the other 3 stabilizers while following the recommended positions on page 7.

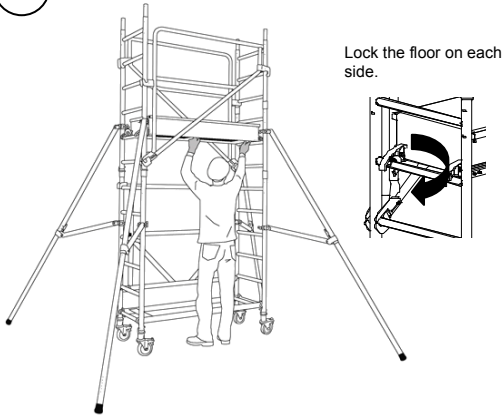


24 While inside the structure, set the floor on the desired rung. Slide the floor on the rung.

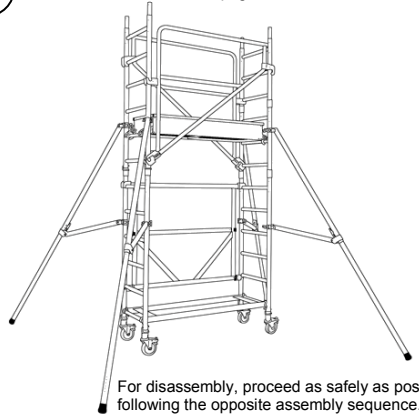


Docker mini assembly and use instructions

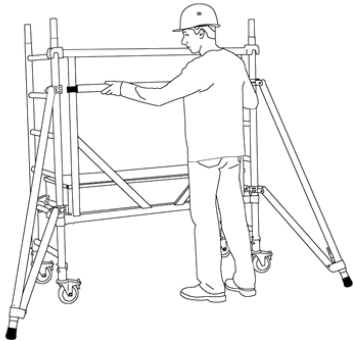
25 Slide the floor on the rung to clamp it to the other side.



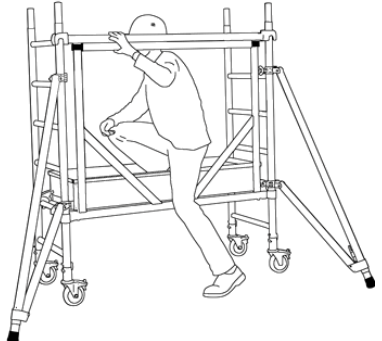
26 Assembly of each element is now described to assemble every combinations described on page 6.



27 **Lateral access for low heights:**
Wall version showcased.
To access the floor, lift the sliding handrail in a parallel to the upper handrail.



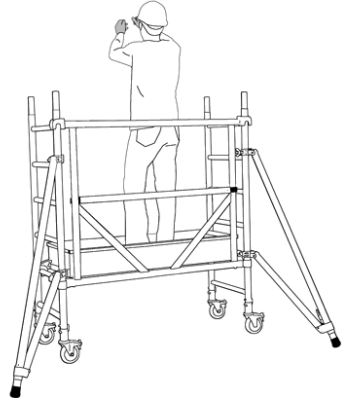
28 Access the floor through the vertical base, holding the sliding handrail.



29 Let the sliding handrail fall back to its stop, 50cm from the floor.



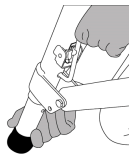
30 The lateral access allows safe use of the Docker mini. Useful for combination 150200 and 150200M



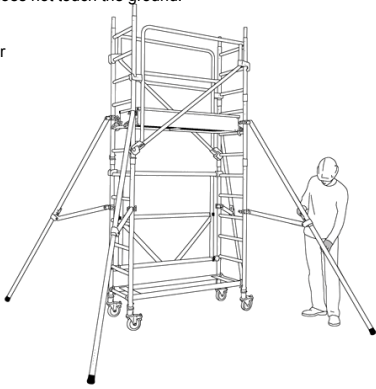
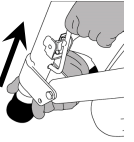
31 Moving the Docker mini quickly:

Retract the 4 stabilizers with the trigger.
The tip does not touch the ground.

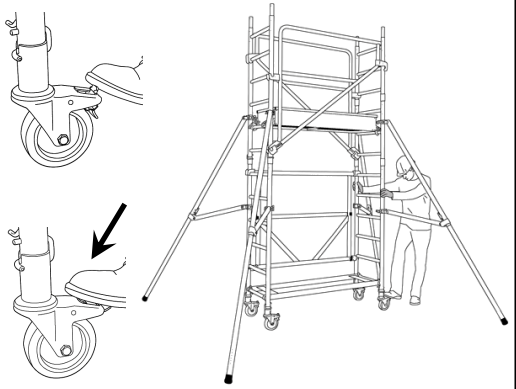
Activate the trigger



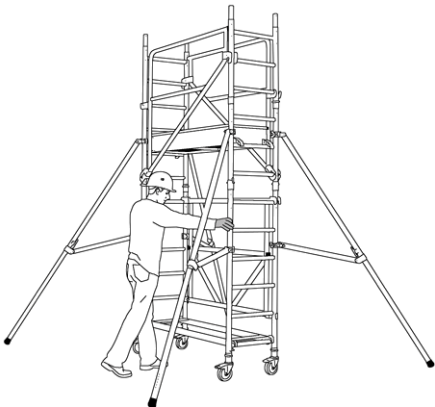
Pin



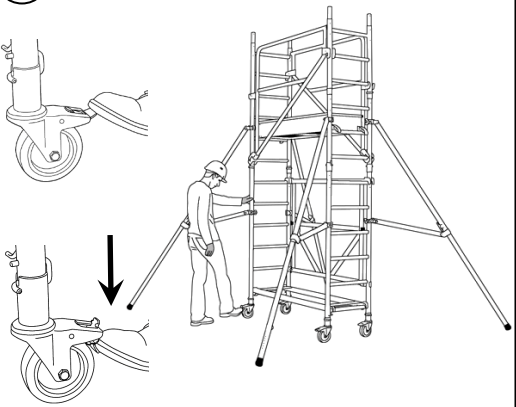
32 Unlock all 4 wheels by lowering the lock.



33 Move the scaffolding to the desired place.



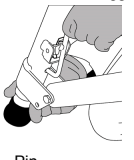
34 Lock the 4 wheels by switching the lock towards the wheel.



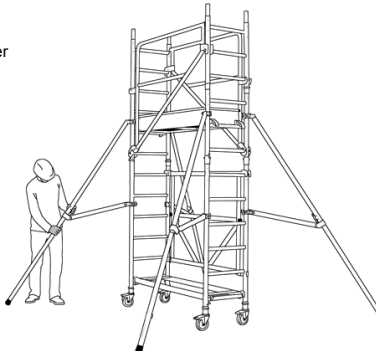
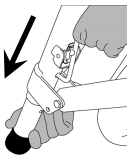
35 Set the 4 stabilizers in a supporting position on the ground.

Follow the recommended instructions on the table on page 7.

Activate the trigger

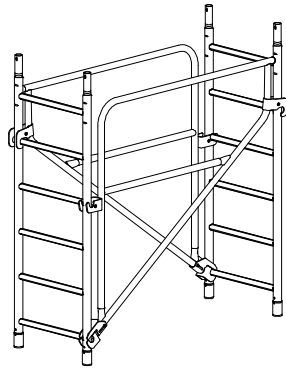


Pin



36 Wind-bracing rules:

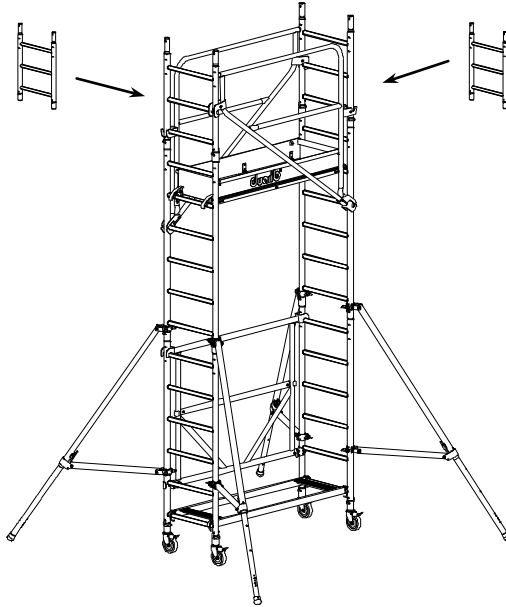
The safety rails wind-brace the structure and must be set on each side of the scaffolding, as shown below.



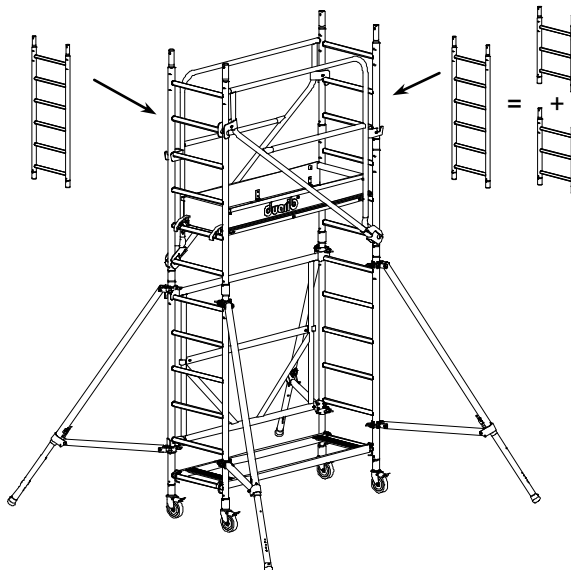
Docker mini 0.75m ladder position according to combination

0.75m ladder assembly for Docker mini combinations

1st case according to combinations with 0.75m 3 rung ladders on each side of the scaffolding
Combinations: 150201; 150203 and 150205



2nd case according to combinations with 0.75m 3 rung ladder one on top of the other, to have a 1.5m 6 rung ladder.
Combinations 150202 and 150204



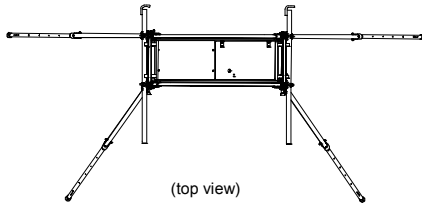
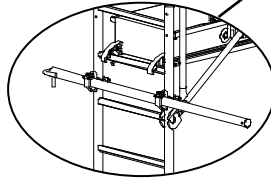
Special case: Anchoring kit

When wind speed exceeds 45 kmph, it is mandatory to either disassemble or fasten the scaffolding at the top.

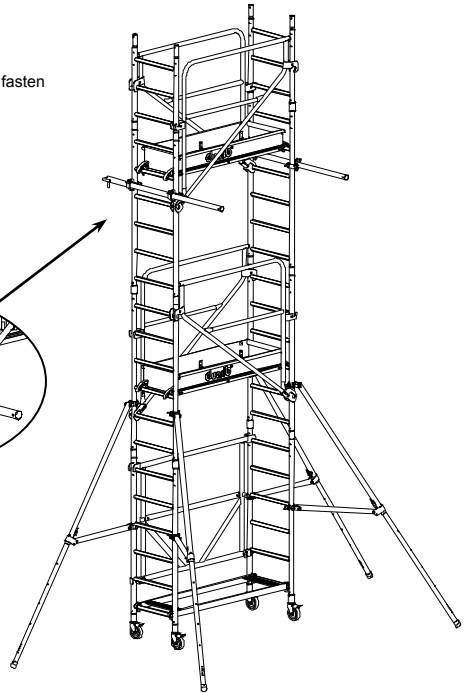
If you chose to anchor it:

- Set the stabilizers according to the opposite picture
- Add 2 anchors under the last floor level
- Anchors not included in the various assemblies
- Complete kit reference 20865 x 2
- Please refer to page 3 for anchor stress

Tightening torque of the collars at 25 N.m with a 22 wrench.



(top view)



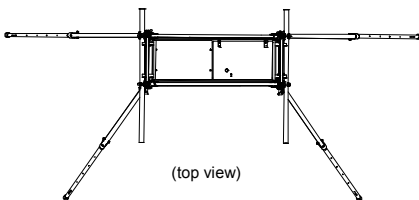
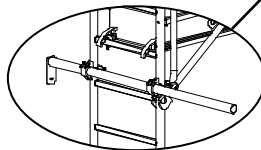
Special case: Support kit

For an assembly at the front of a building, it is possible to use supports for a better rigidity and more comfort.

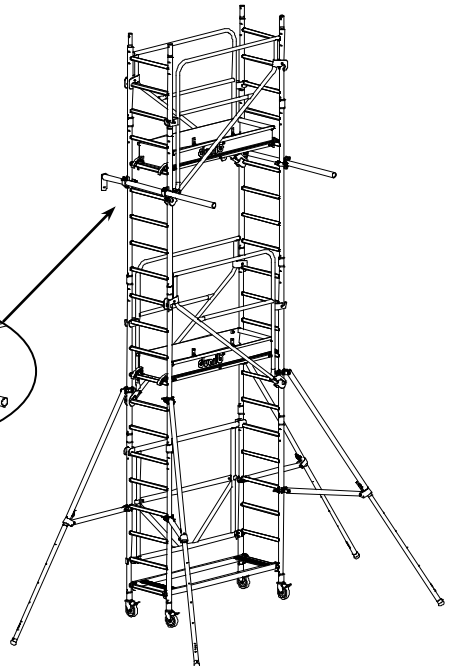
For the support:

- Set the stabilizers according to the opposite picture
- Add 2 supports under the last floor level
- Supports not included
- A support bar reference 20870 and 2 collars 50888

Tightening torque of the collars at 25 N.m with a 22 wrench.



(top view)

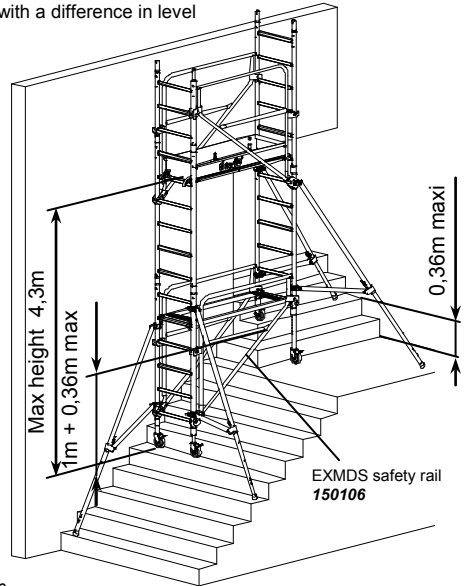
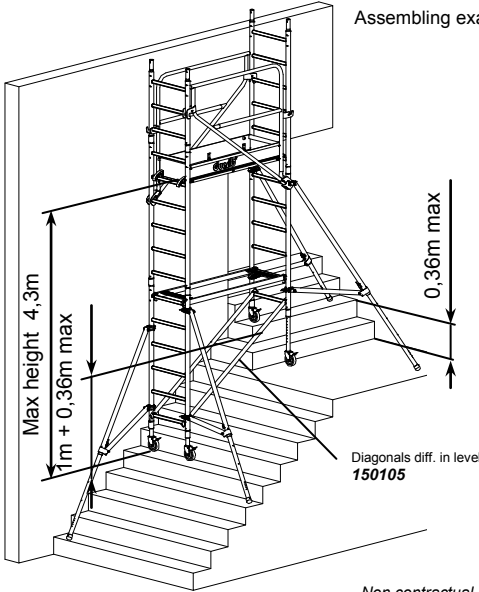


Assembly on a difference in level: max difference - 1 m

Assembly rules:

- The ladder's first rungs, at the bottom of the difference in level, are linked by safety rails, as shown on the schematic below.
- The base body must be positioned horizontally on the ladder's first rung which is at the top of the difference in height.
- From the base body, the assembly remains identical to a standard assembly with, depending, a height variation on ladders at the bottom and the top of the difference in height.
- Assembly on a difference in level must be done as cautiously as possible.
- Each worksite is different. Please contact DUARIB in case you have a question.
- Possible difference in level on the same ladder level is 0.36m (fine tune on the wheel).
- Possible difference in a level of 1m + 0.36m with wheel fine tuning if need be.

Assembling examples with a difference in level

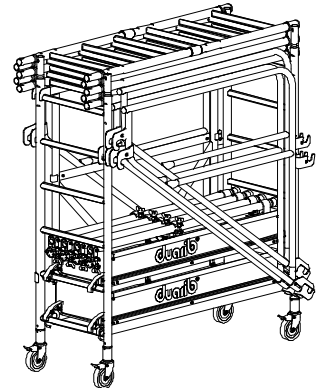
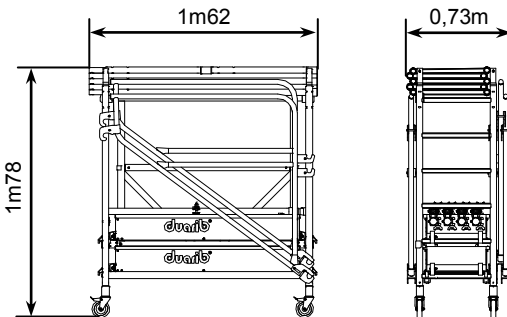


Non contractual schematic

Storage and transport

With this setup, a Docker mini can be used to transport your scaffolding and small tools so they fit through a 2m x 0.73m door.

You must use collars to hold the parts together.



To preserve the scaffolding, it is best to store it away from the elements.