D040373A

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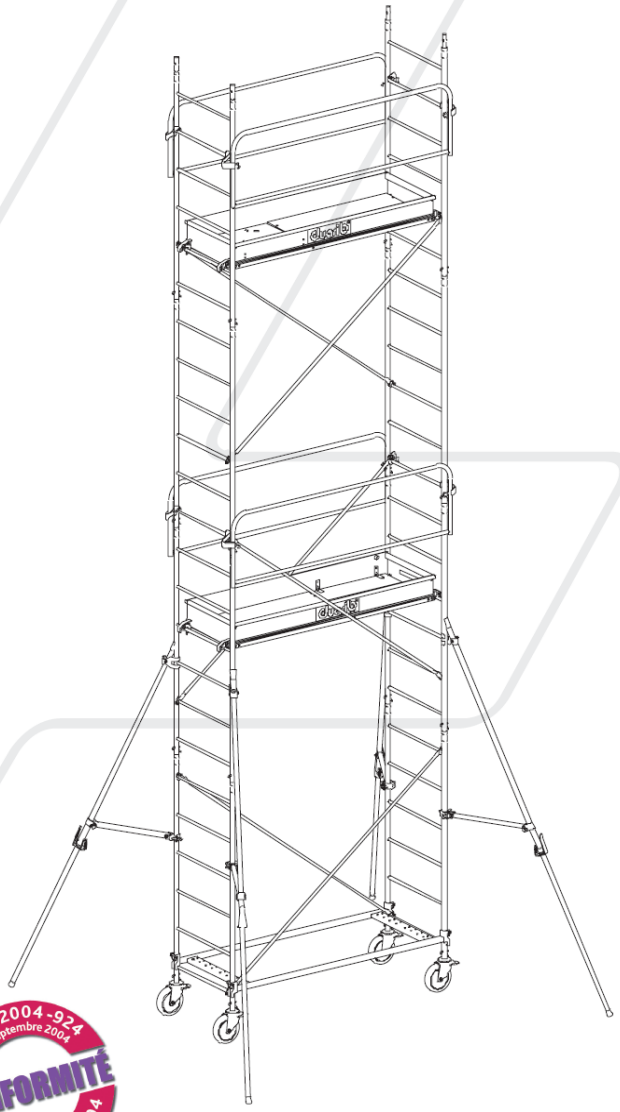
ALTITUDE ACIER



Compliant with NF norm EN 1004
Compliant with 01/09/04 decree

Décret 2004-924 du 1er septembre 2004 CONFORMITÉ Norme NF EN 1004

ASSEMBLY, DISASSEMBLY, AND USER INSTRUCTIONS

FABRICATION FRANÇAISE

ASSEMBLY AND USE INSTRUCTIONS

D040373A

LOADING CONDITIONS

Floor: maximum allowed load spread over the floor = **140 kg**

Whole scaffolding: maximum allowed load spread over the floors = **400 kg**

Class 3 spread load (200 daN/m²)

NF EN1004 - 3 – 6,8/6,8 – D Rolling

Follow the assembly and use instructions

- Access type
- Maximum height for outdoor/indoor use
- Class of the load evenly spread
- Reference to the norm

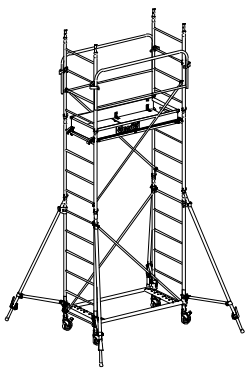
Altitude Steel 150						
Norm code	11152	11153	11154	11155	11156	11157
Floor height in m.	1,7	2,8	3,9	5,0	5,6	6,7
Work height in m.	3,7	4,8	5,9	7,0	7,6	8,7
Weight in kg	90	102	132	145	149	184

Norm

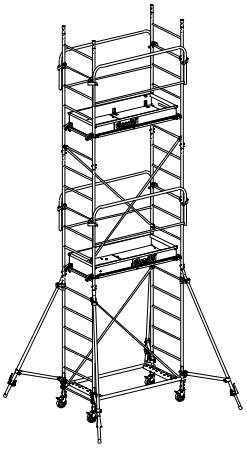
Part code	Weight	Description	Part quantity according to the product code					
11101	1,4	Ø125 wheel	4	4	4	4	4	4
11102	7	AC150 base body	1	1	1	1	1	1
11105	7	2m ladder (6 rungs)	2	2	6	6	8	8
11106	5	1m ladder (4 rungs)	2	4	0	2	0	2
11107	13	AC150 floor	1	1	2	2	2	3
11110	4,5	AC150 safety rail	2	2	4	4	4	6
11113	1,4	AC150 brace	2	4	4	6	6	8
11116	7	Stabilizer	4	4	4	4	4	4
46057	0,1	Ø40 clamp pin	4	4	4	4	4	4
46070	0,1	Ø35 pin	8	12	12	16	16	20

Code 11152

Code 11153

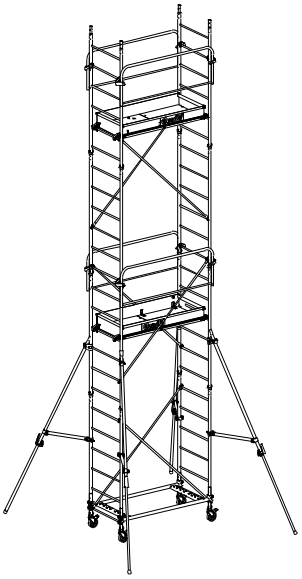


Code 11154

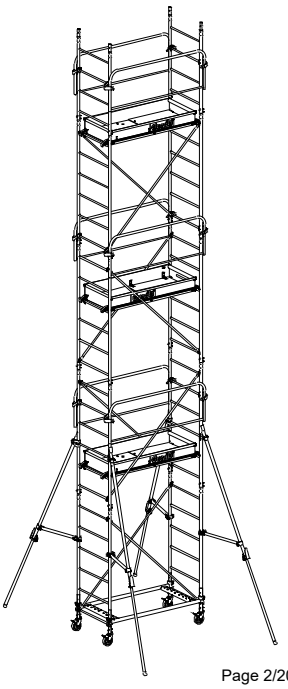


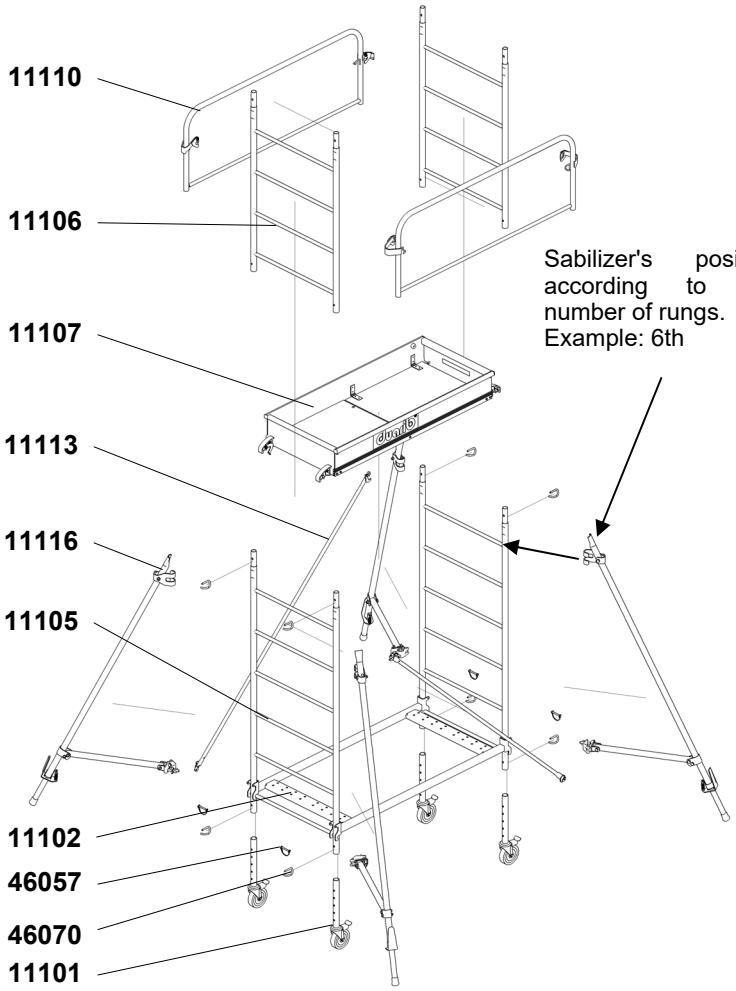
Code 11155

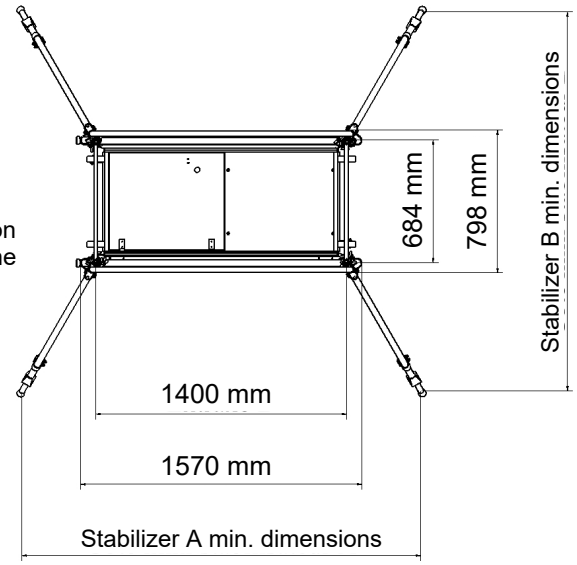
Code 11156



Code 11157

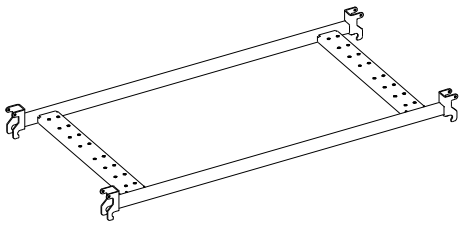




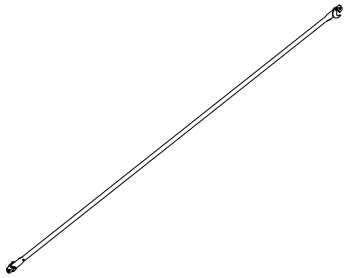


Size in mm				Anchoring point of the stabilizers to the rung, starting at the bottom
Code	**Hauteur plancher**	A	B	
11152	1,7 m	1650	1300	6th rung
11153	2,8 m	2100	1800	6th rung
11154	3,9 m	2300	2000	7th rung
11155	5,0 m	2650	2400	7th rung
11156	5,6 m	2800	2600	8th rung
11157	6,7 m	2900	2650	8ème barreau

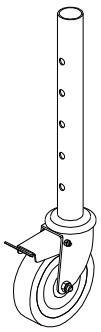
11102 - Base body



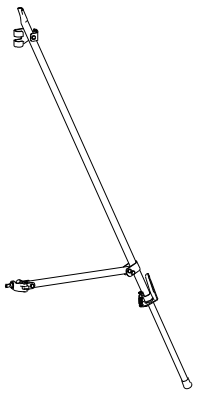
11113 - Brace



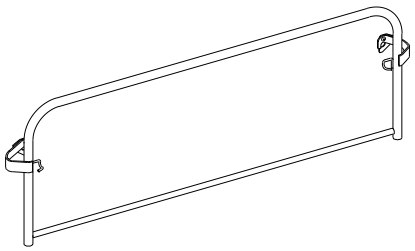
11101 - Ø 125 wheel



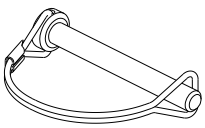
11116– Stabilizer



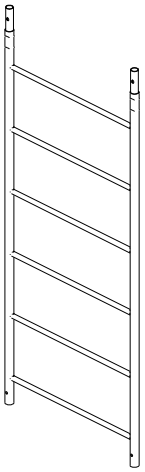
11110 - Safety rail



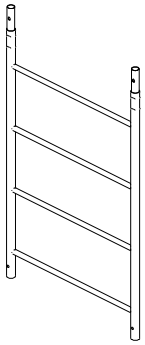
46057 - Clamp pin



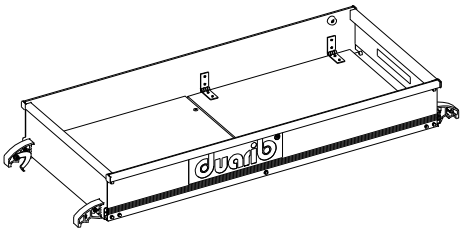
11105 - 2m ladder



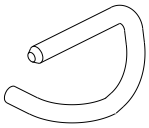
11106 - 1m ladder



11107 - Floor



46070 - Pin



ASSEMBLY AND USE INSTRUCTIONS

D040373A

LOADING CONDITIONS

Floor: Maximum allowed load spread over the floor = **190 Kg**

Whole scaffolding: Maximum allowed load spread over the floors = **500 Kg**

Spread load class 3 (200 daN/m²)

NF EN1004 - 3 – 6,8/6,8 – D Rolling

Follow the assembly and use instructions

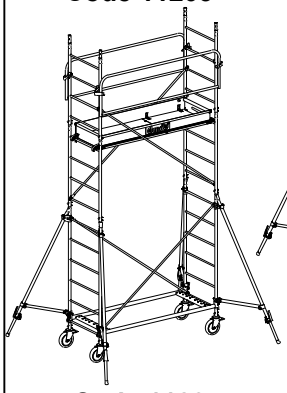
- Reference to the norm
- Class of the load evenly spread
- Maximum height for outdoor/indoor use
- Access type

Altitude Steel 200							
Norm code	11202	11203	11204	11205	11206	11207	11208
Floor height in m.	1,8	2,9	4,0	5,1	5,7	6,8	7,9
Work height in m.	3,8	4,9	6,0	7,1	7,7	8,8	9,9
Weight in kg	102	115	149	162	166	205	218

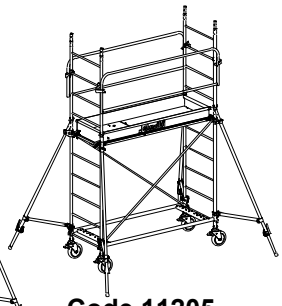
Norm

Part code	Weight	Description	Part quantity according to the product code						
11100	3,1	Ø 200 wheel	4	4	4	4	4	4	4
11103	8,2	AC200 base body	1	1	1	1	1	1	1
11105	7	2m ladder (6 rungs)	2	2	6	6	8	8	8
11106	5	1m ladder (4 rungs)	2	4	0	2	0	2	4
11108	15,6	AC200 floor	1	1	2	2	2	3	3
11111	5,2	AC200 safety rail	2	2	4	4	4	6	6
11114	1,6	AC200 brace	2	4	4	6	6	8	10
11116	7	Stabilizer	4	4	4	4	4	4	4
46057	0,1	Ø40 clamp pin	4	4	4	4	4	4	4
46070	0,1	Ø35 pin	8	12	12	16	16	20	24

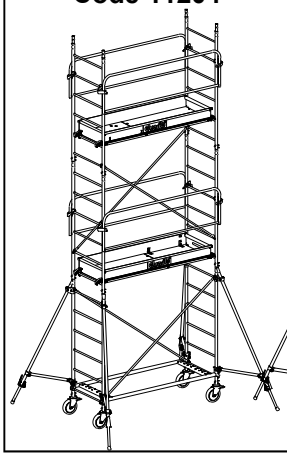
Code 11203



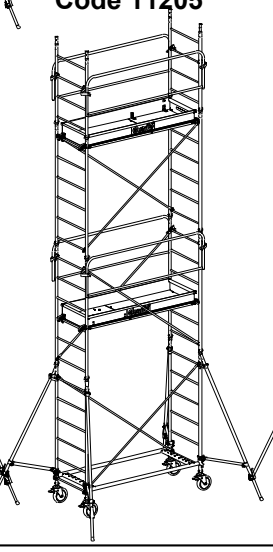
Code 11202



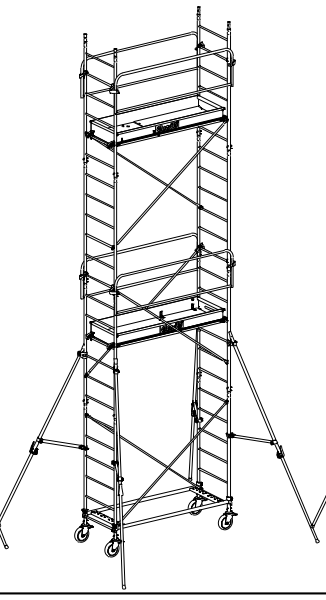
Code 11204



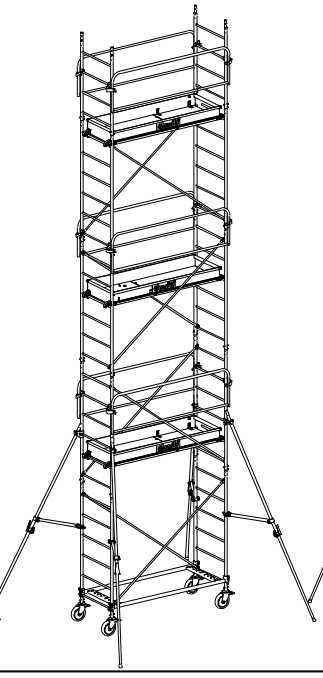
Code 11205



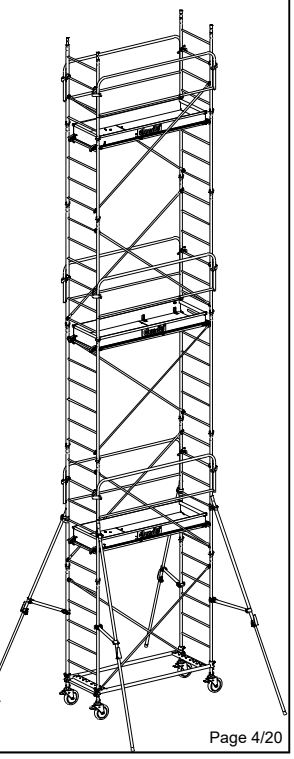
Code 11206

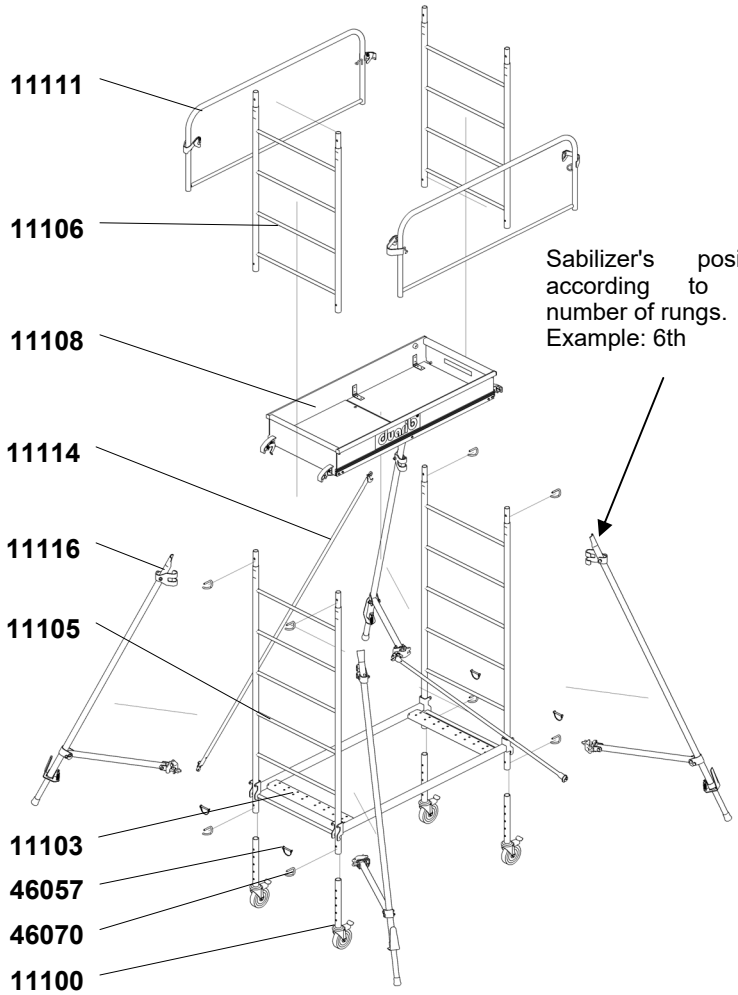


Code 11207

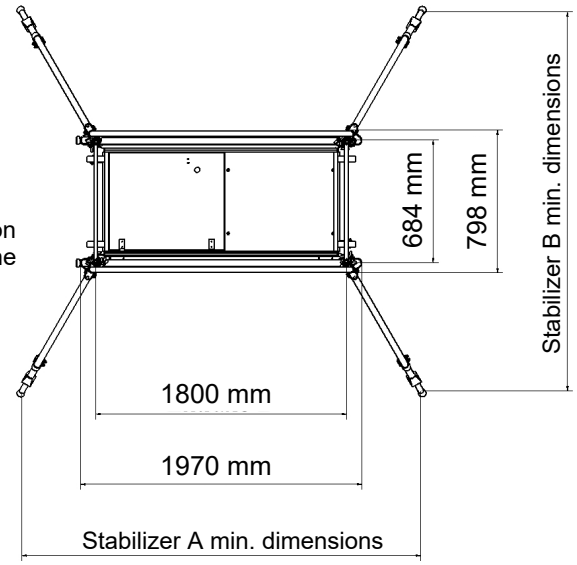


Code 11208



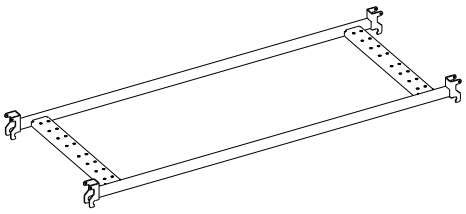


Sabilizer's position according to the number of rungs. Example: 6th

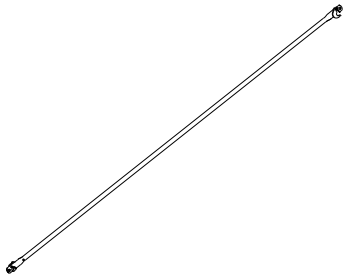


Size in mm				Anchoring point of the stabilizers to the rung, starting at the bottom
Code	**Floor height**	A	B	
11202	1,8 m	1700	1200	6th rung
11203	2,9 m	2100	1650	6th rung
11204	4,0 m	2300	1900	6th rung
11205	5,1 m	2600	2200	7th rung
11206	5,7 m	2750	2400	7th rung
11207	6,8 m	2800	2450	8th rung
11208	7,9 m	3000	2700	9th rung

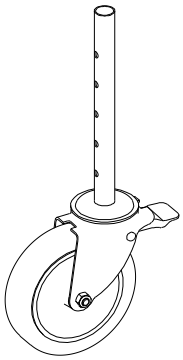
11103 - Base body



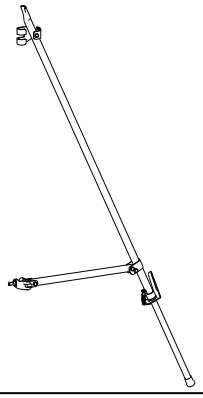
11114 - Brace



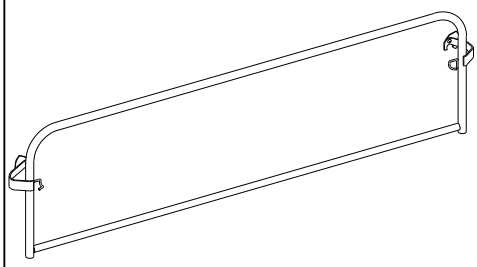
11100 - Ø 200 wheel



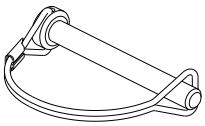
11116– Stabilizer



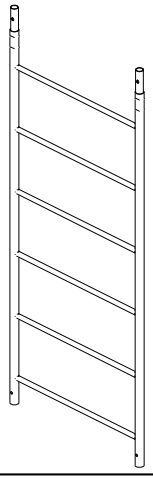
11111 - Safety rail



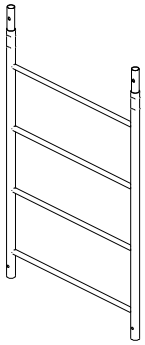
46057 - Clamp pin



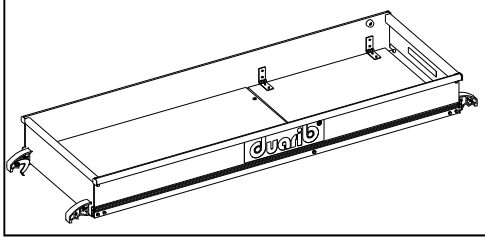
11105 - 2m ladder



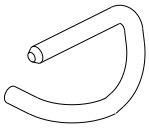
11106 - 1m ladder



11108 - Floor



46070 - Pin



ASSEMBLY AND USE INSTRUCTIONS

D040373A

LOADING CONDITIONS

Floor: Maximum allowed load spread over the floor = **240 Kg**

Whole scaffolding: Maximum allowed load spread over the floors = **500 Kg**

Spread load class 3 (200 daN/m²)

NF EN1004 - 3 – 6,8/6,8 – D Rolling

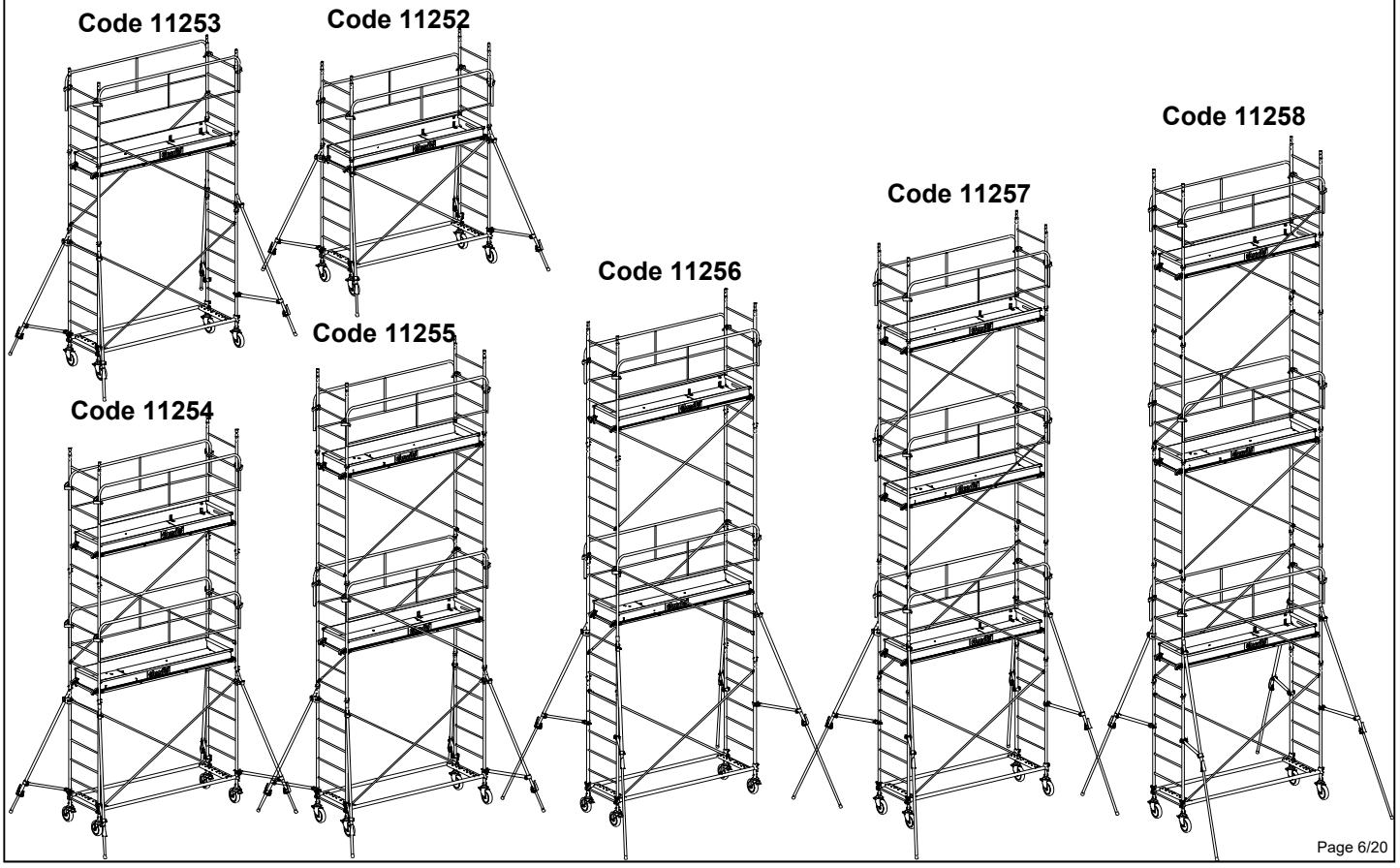
Follow the assembly and use instructions

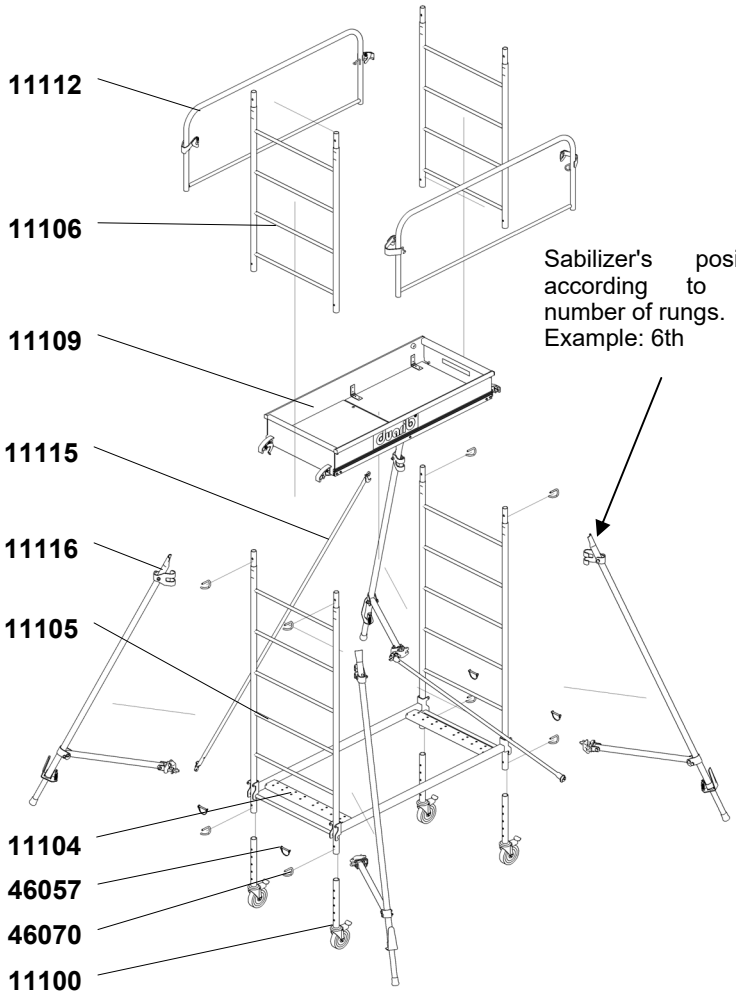
- Access type
- Maximum height for outdoor/indoor use
- Class of the load evenly spread
- Reference to the norm

Altitude steel 250							
Norm code	11252	11253	11254	11255	11256	11257	11258
Floor height in m.	1,8	2,9	4,0	5,1	5,7	6,8	7,9
Work height in m.	3,8	4,9	6,0	7,1	7,7	8,8	9,9
Weight in kg	109	122	161	175	179	224	238

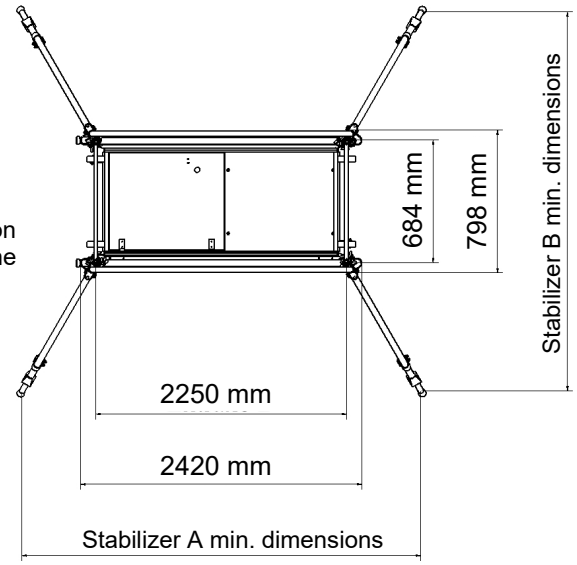
Norm

Part code	Weight	Description	Part quantity according to the product code						
11100	3,1	Ø 200 wheel	4	4	4	4	4	4	4
11104	9,6	AC250 base body	1	1	1	1	1	1	1
11105	7	2m ladder (6 rungs)	2	2	6	6	8	8	8
11106	5	1m ladder (4 rungs)	2	4	0	2	0	2	4
11109	18,9	AC250 floor	1	1	2	2	2	3	3
11112	6	AC250 safety rail	2	2	4	4	4	6	6
11115	1,9	AC250 brace	2	4	4	6	6	8	10
11116	7	Stabilizer	4	4	4	4	4	4	4
46057	0,1	Ø40 clamp pin	4	4	4	4	4	4	4
46070	0,1	Ø35 pin	8	12	12	16	16	20	24



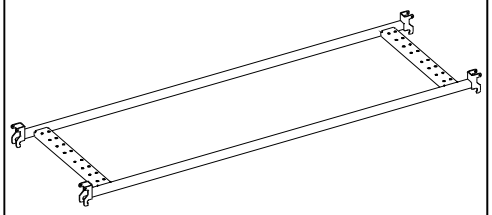


Sabilizer's position according to the number of rungs. Example: 6th

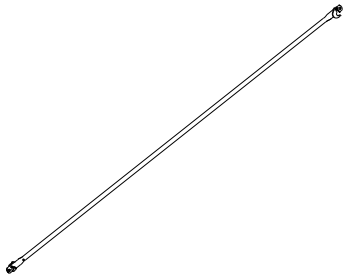


Size in mm				anchoring point of the stabilizers to the rung, starting at the bottom
Code	**Floor height**	A	B	
11252	1,8 m	1900	1200	6th rung
11253	2,9 m	2300	1650	6th rung
11254	4,0 m	2400	1800	7th rung
11255	5,1 m	2600	2100	7th rung
11256	5,7 m	2750	2300	7th rung
11257	6,8 m	2800	2500	8th rung
11258	7,9 m	2950	2850	9th rung

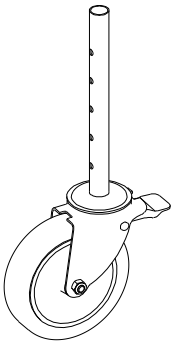
11104 - Base body



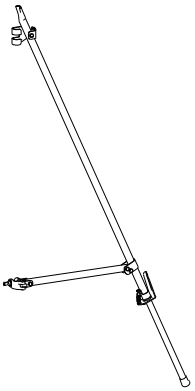
11115 - Brace



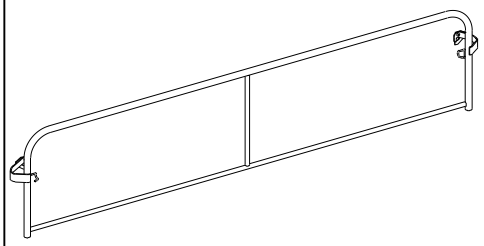
11100 - Ø wheel



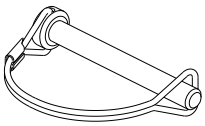
11116– Stabilizer



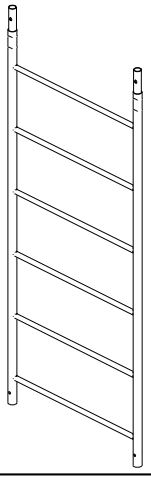
11112 - Safety rail



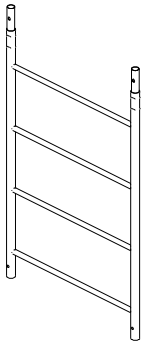
46057 - Clamp pin



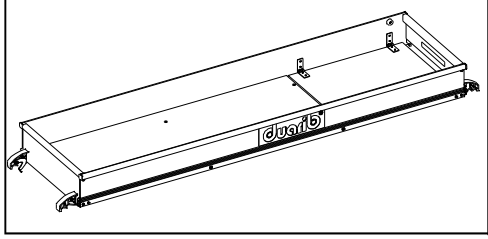
11105 - 2m ladder



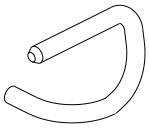
11106 - 1m ladder



11109 - Floor



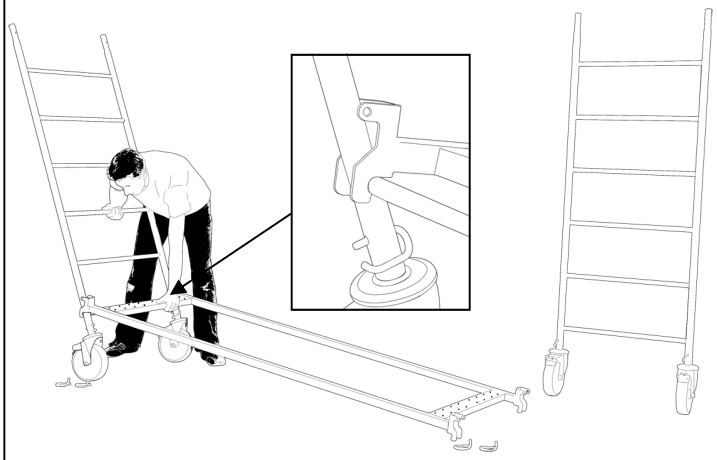
46070 - Pin



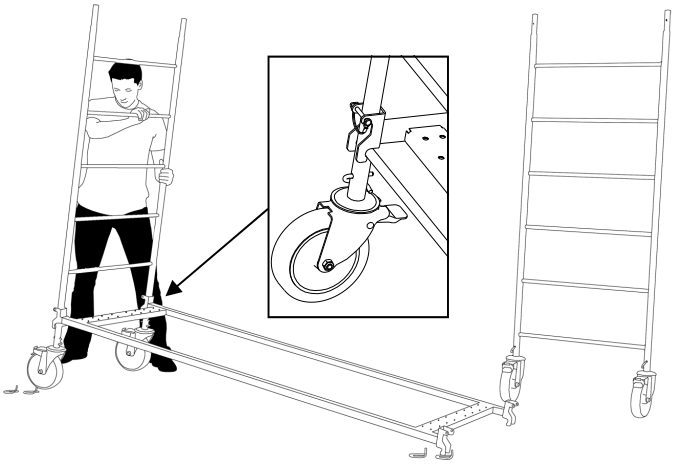
ALTITUDE ACIER DUARIB PATENT

Base body assembly

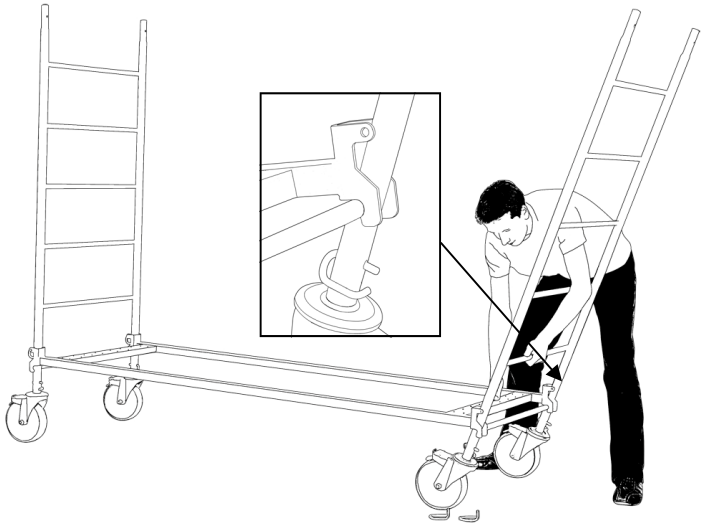
1 Hang the base body on a ladder by setting it on a rung, while the ladder is slightly tilted. The screeds of the base body must wrap around the ladder's upright.



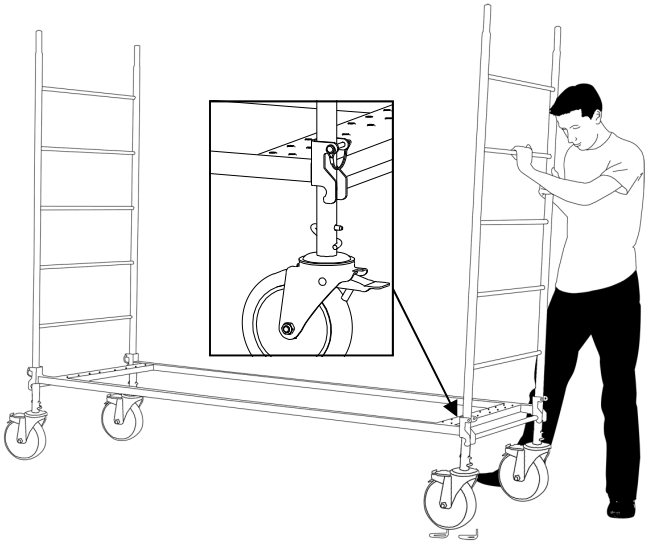
2 Set the ladder perpendicular to the base body, without forcing, then set the pins.



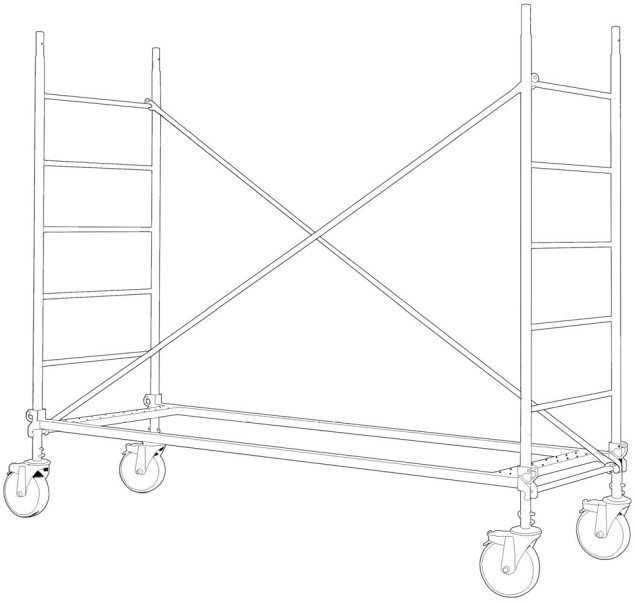
3 Hang the other ladder to the base body by slightly tilting it.



4 Set the ladder perpendicular to the base body, without forcing, then set the pins.



5 Cross the braces so the whole structure is stronger

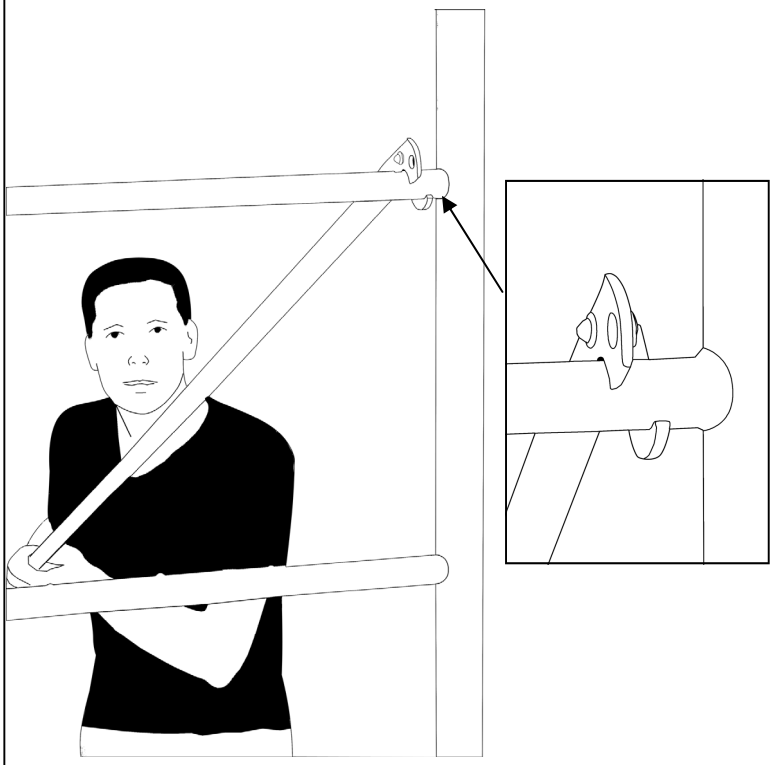


ALTITUDE ACIER DUARIB PATENT

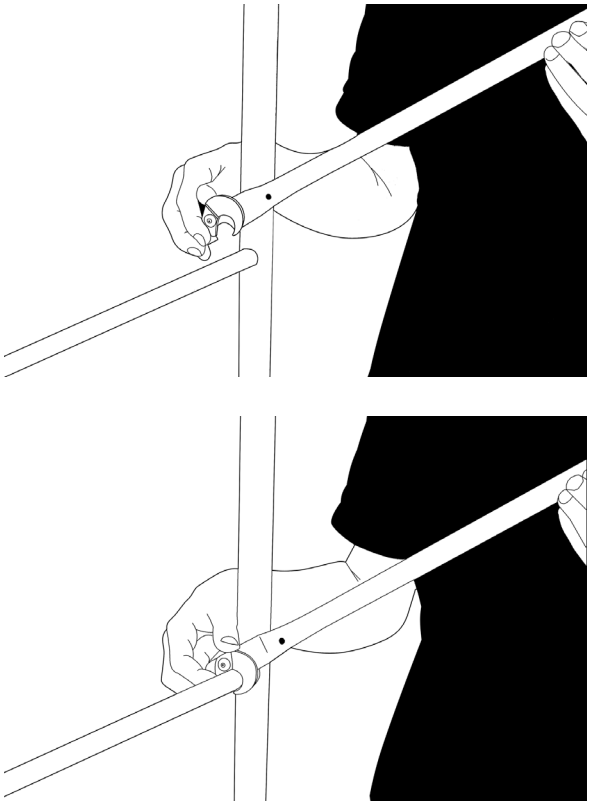
Brace's safe assembly

Brace's safe assembly:

1 From a distance, hang the brace's upper part.
Check the lock is properly set.

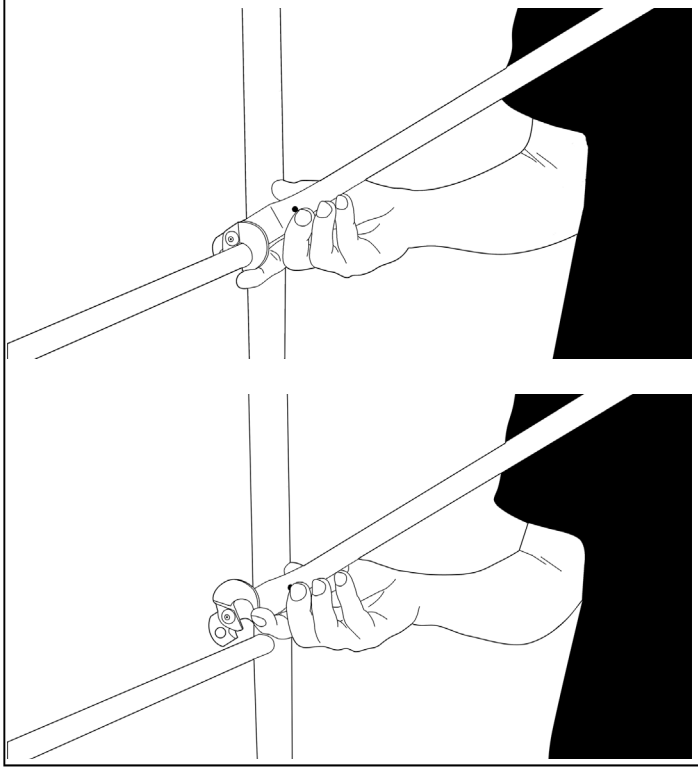


2 Hang the other end of the brace by opening the lock slightly.
Check the lock is properly set.

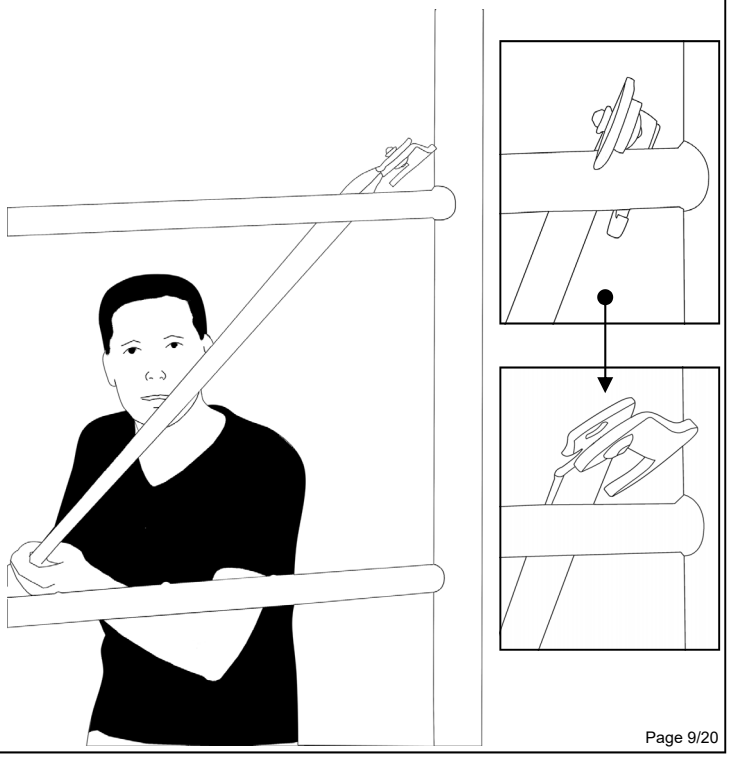


Brace's safe disassembly:

1 Unlock the lower end and remove the brace from the ladder's rung.



2 Turn the brace and the lock will open automatically.
Lift the part to disassemble it completely.

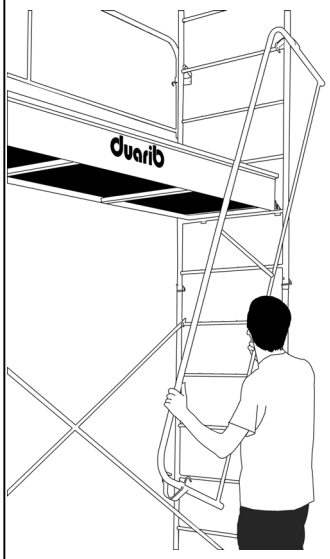


DUARIB PATENT

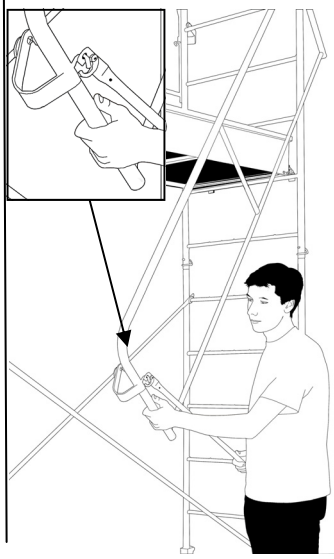
Safety rail's safe assembly

Safe assembly of the safety rail with the brace:

1 Hang one end of the safety rail by wrapping around the upright from the outside.



2 Hang the brace to the safety rail by inserting the hook in the hole.

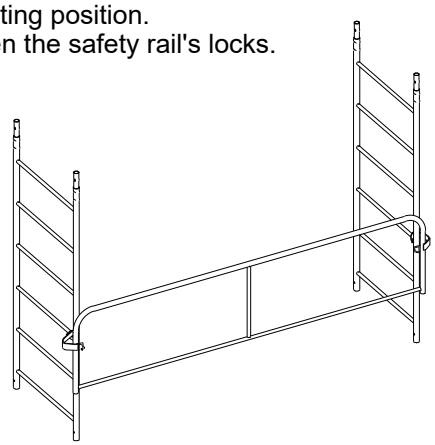


3 Use the brace as a pole to install the safety rail by wrapping around the upright from the outside.

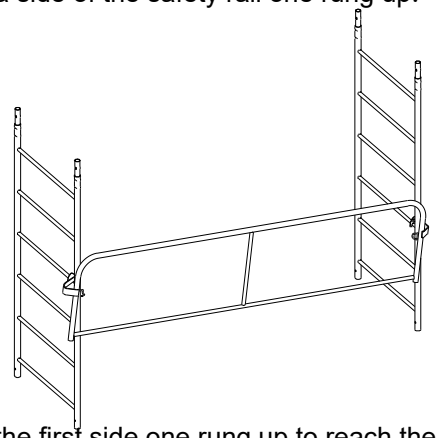
4 Set the brace close to the upright and the safety rail will be set on the ladder's rung. Get the brace back.

Safety rail handling to adapt to the height:

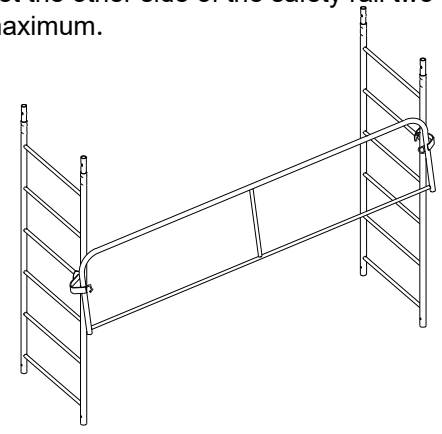
1 Starting position.
Open the safety rail's locks.



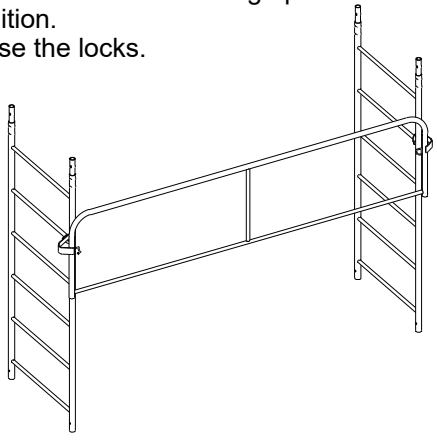
2 Set a side of the safety rail one rung up.



3 Set the other side of the safety rail two rungs up maximum.



4 Set the first side one rung up to reach the final position.
Close the locks.

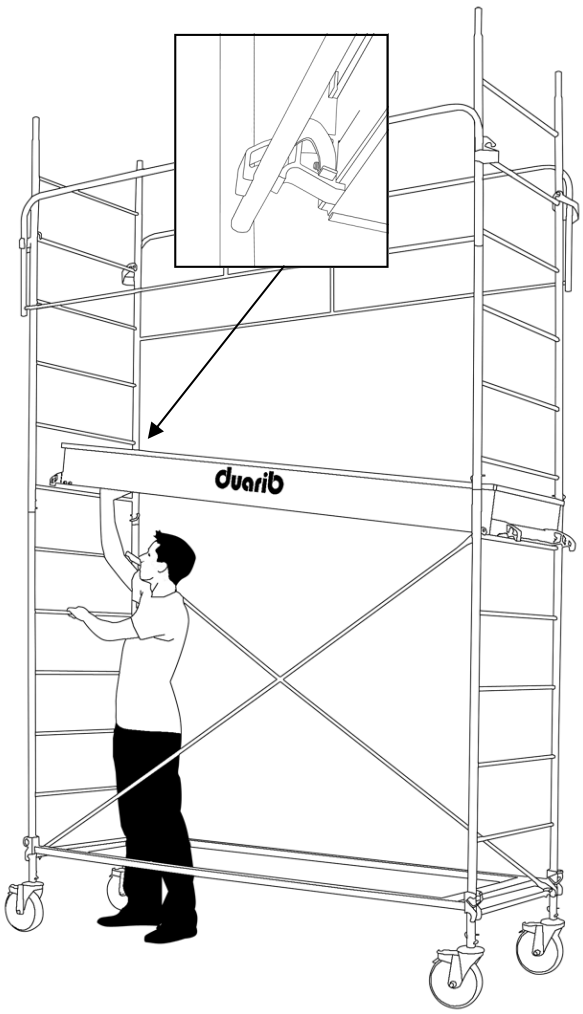


All these steps can be **safely** executed with a brace, from the lower floor.

DUARIB PATENT

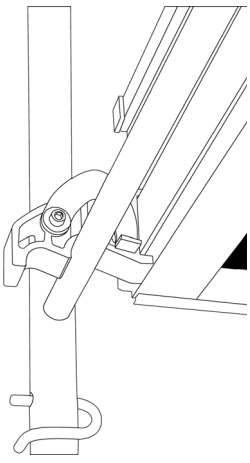
Floor's safe assembly

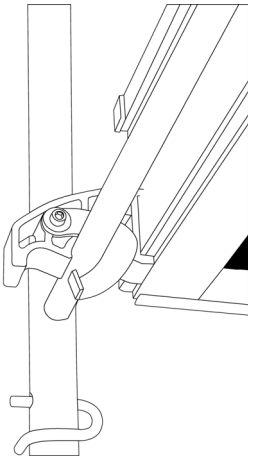
1 Insert the floor with its locks open in the scaffolding at the first height possible without trying to set it at work height.
The floor's hooks have two positions and a sliding ramp that are used for a tilted assembly.



2 Set the floor's extremities one after the other to reach the proper work height.
The hooks' sliding ramps allow for a tilted orientation of the floor.

3 Set the floor horizontally at work height and set the its locks to activate the lift-off protection.





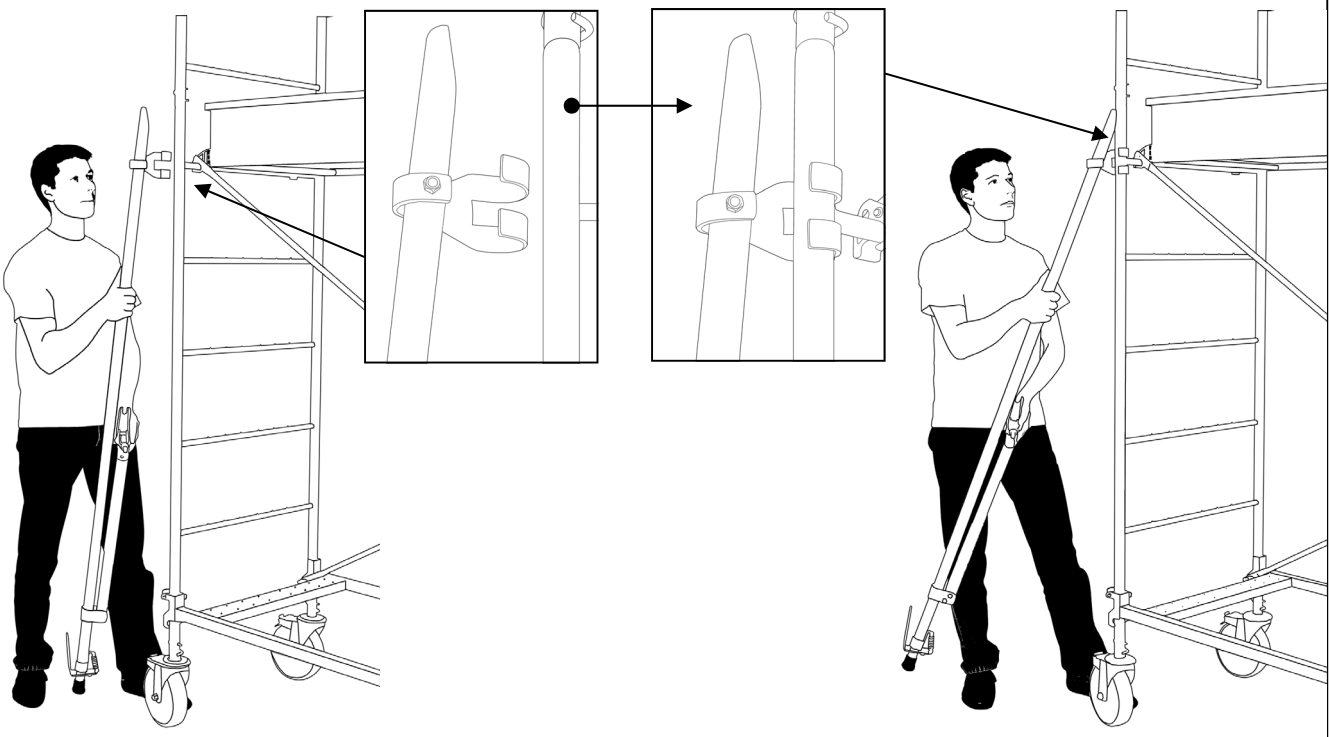
The height between each floor cannot exceed 3m.

DUARIB PATENT

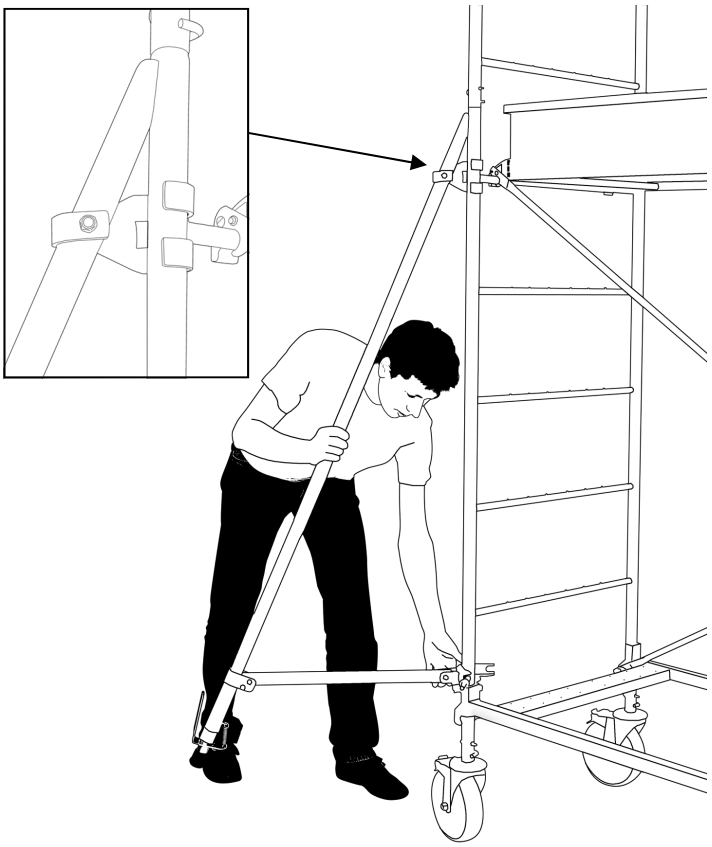
Stabilizer's safe assembly

1 Move the stabilizer closer and vertically to the ladder's upright. Hang the upper end to the rung, as advised by this user guide on page 3, 5 or 7.

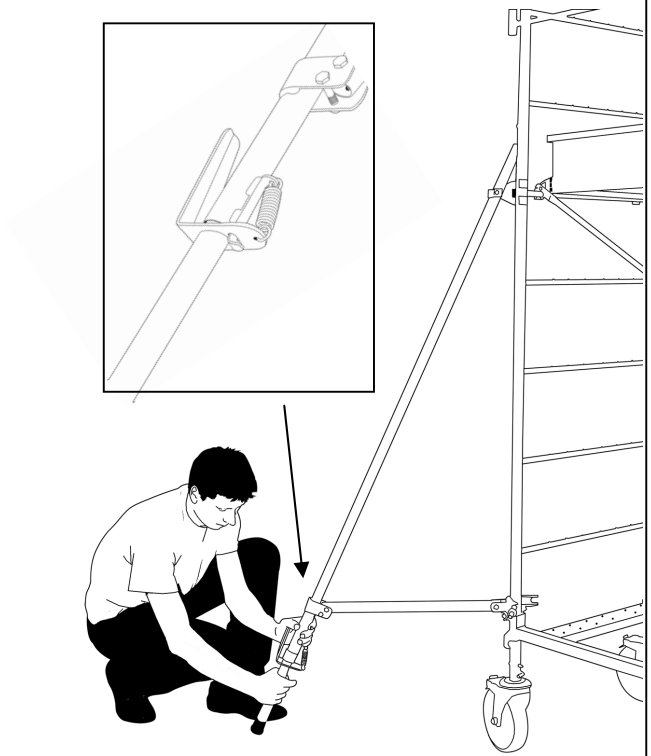
2 Tilt the stabilizer.



3 Lower the brace horizontally and tighten the collar.

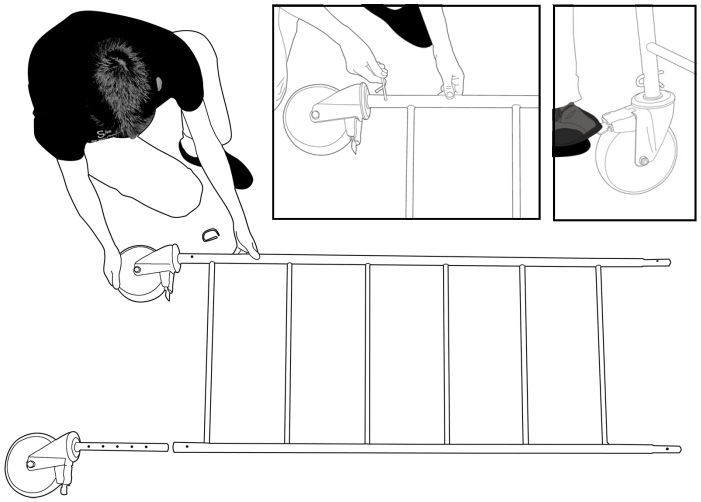


4 Spread the stabilizer's runner down to the ground with the manual command.

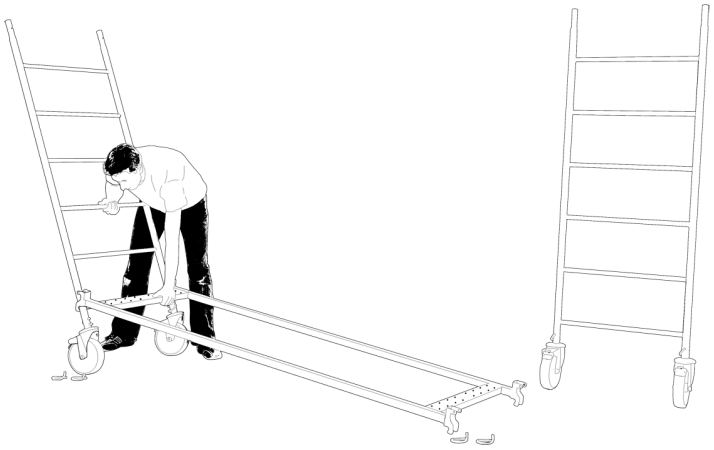


Assembly steps

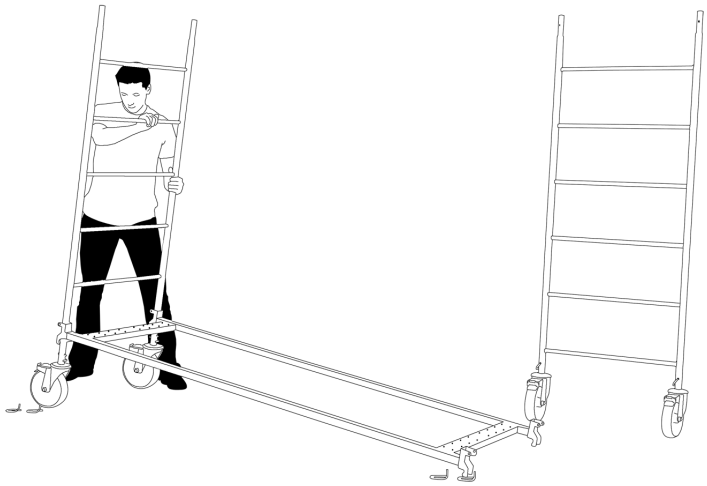
1 Insert the wheels on the 2m ladder.
Set the pin so the assembly holds together.
Lock the wheels for the next steps of the assembly.



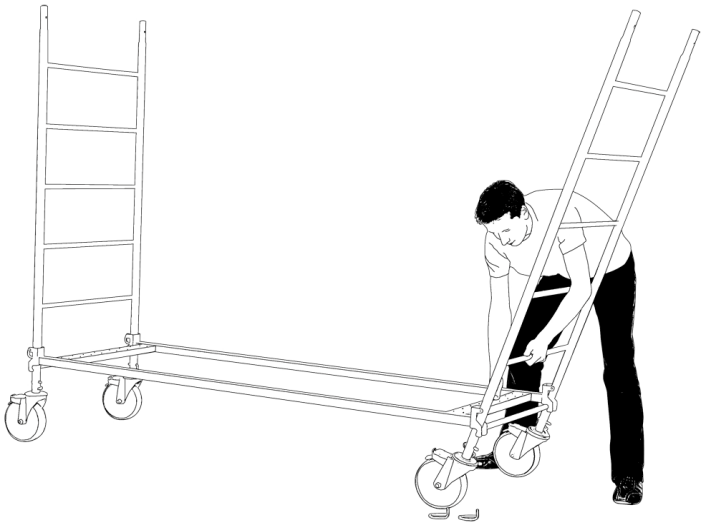
2 Hang the base body to a ladder by setting it on a rung, with the ladder slightly tilted. The base body screeds must wrap around the ladder's uprights.



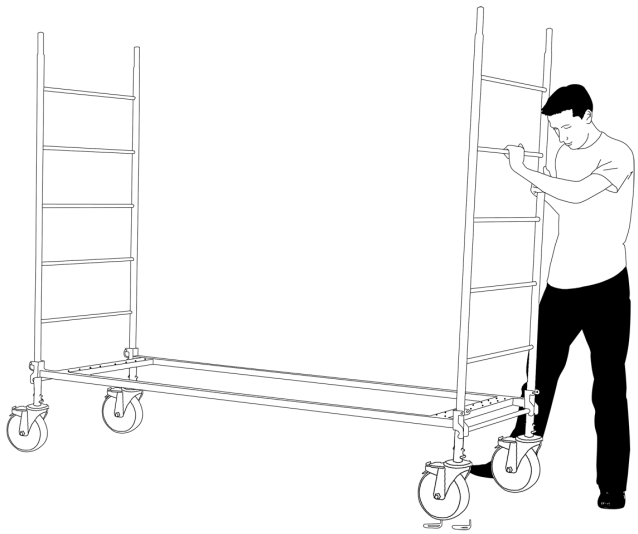
3 Without forcing, set the ladder perpendicularly to the base body and set the pins.



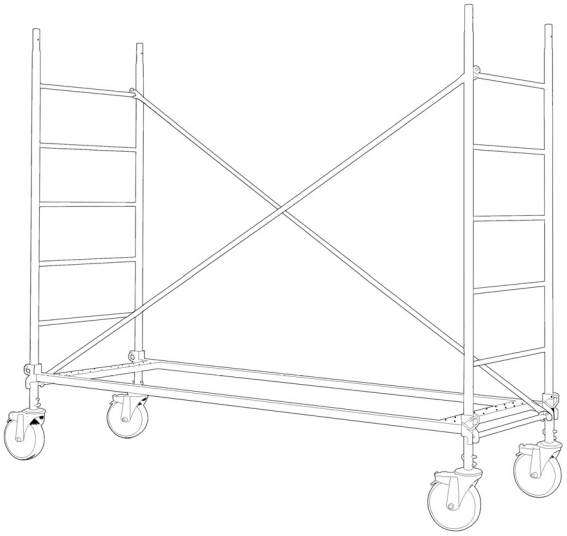
4 Hang the other ladder to the base body by slightly tilting it.



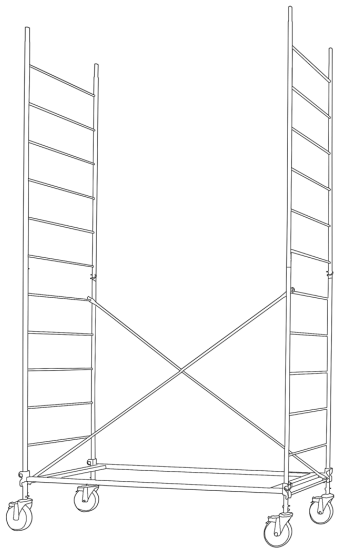
5 Without forcing, set the ladder perpendicularly to the base body and set the pins.



6 Cross the braces to stiffen the structure. Check that the base is on a level for the next steps of the assembly.

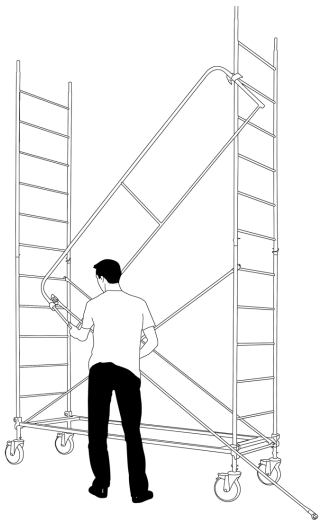


7 Joint the upper ladders.

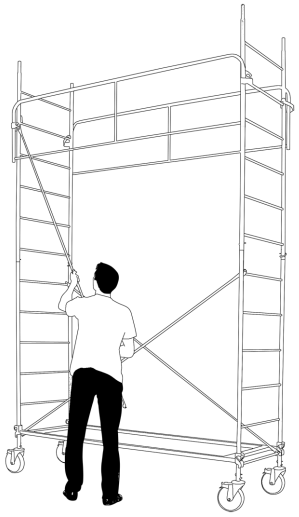


8 Hang one end of the safety rail by wrapping around the upright from the outside.

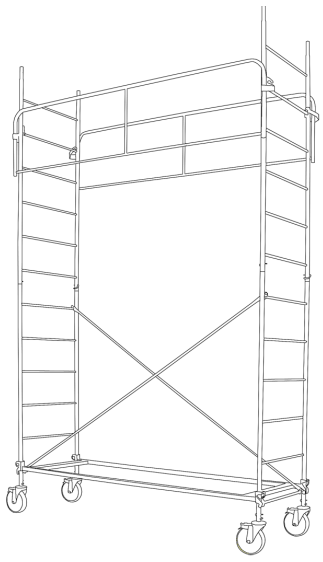
9 Hang the brace to the safety rail by inserting the hook in the hole. Use the brace as a pole to install the safety rail by going around the upright from the outside.



10 Bring the upright's brace closer and the safety rail will be set on the ladder's rung. Retrieve the brace.



11 Set the second safety rail by repeating the same steps.



12 Insert the floor with its locks open in the scaffolding at the first height possible without trying to set it at work height.

13 Set the floor's extremities one after the other to reach the proper work height.
The hooks' sliding ramps allow for a tilted orientation of the floor.

14 Set the floor horizontally to the work height and set the locks of the floor's lift-off protection.

15 Move the stabilizer vertically closer to the ladder's upright. Hang the upper end to the rung, as advised by this user guide on page 3, 5 or 7.

16 Tilt the stabilizer.

17 Lower the brace horizontally and tighten the collar.

18 Spread the stabilizer's runner down to the ground with the manual command.

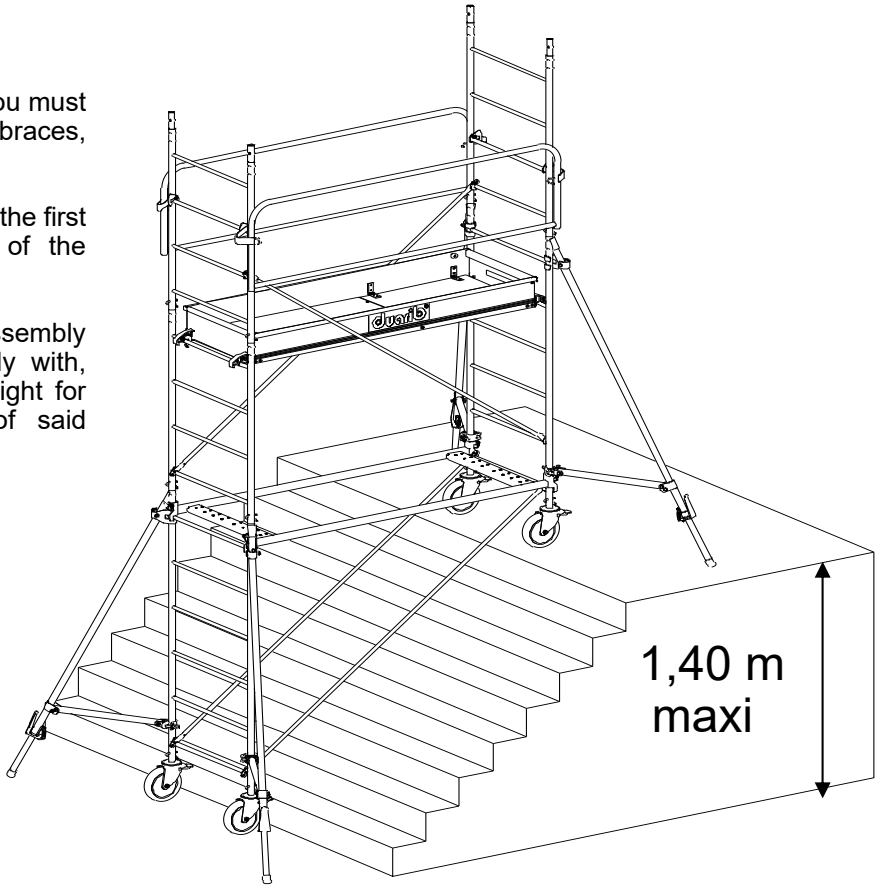
Follow the assembly steps for each part and continue assembling the scaffolding to the desired height.

Assembly on a difference in height

For an assembly on a difference in level, you must link the ladder's first rungs together with braces, as shown on the below schematic.

The base body must be set horizontally on the first rung of the ladder assembled on top of the difference in level.

From the base body onwards, the assembly remains identical to a standard assembly with, according to the case, a difference in height for the ladders at the bottom and top of said difference in height.

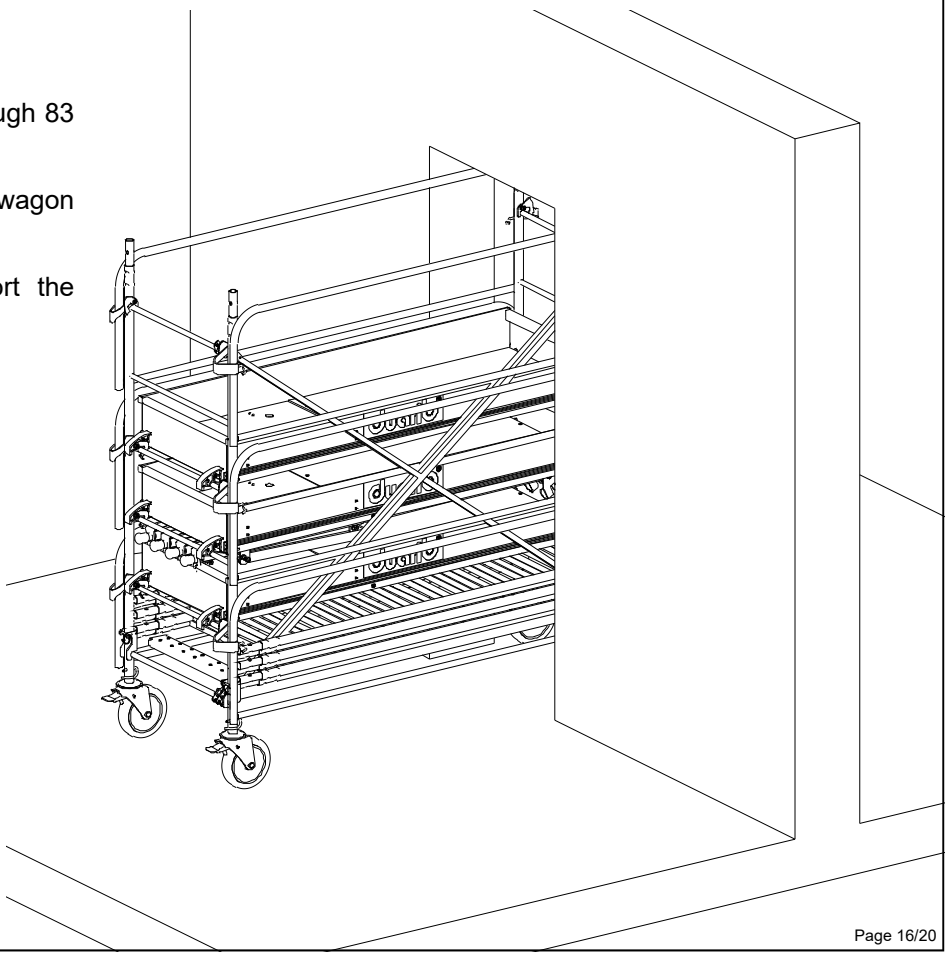


Assembly for transport and to fit through doors

Assembly as a wagon is used to fit through 83 cm doors (width) that are 2m tall.

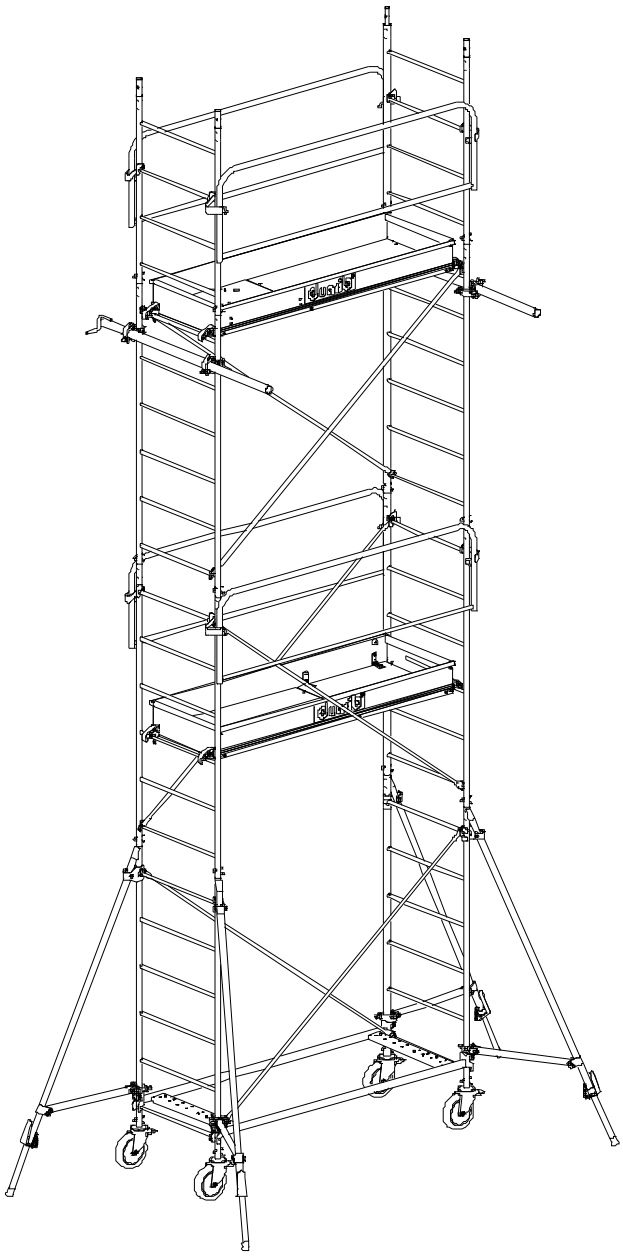
The scaffolding can be delivered as a wagon no matter the work height required.

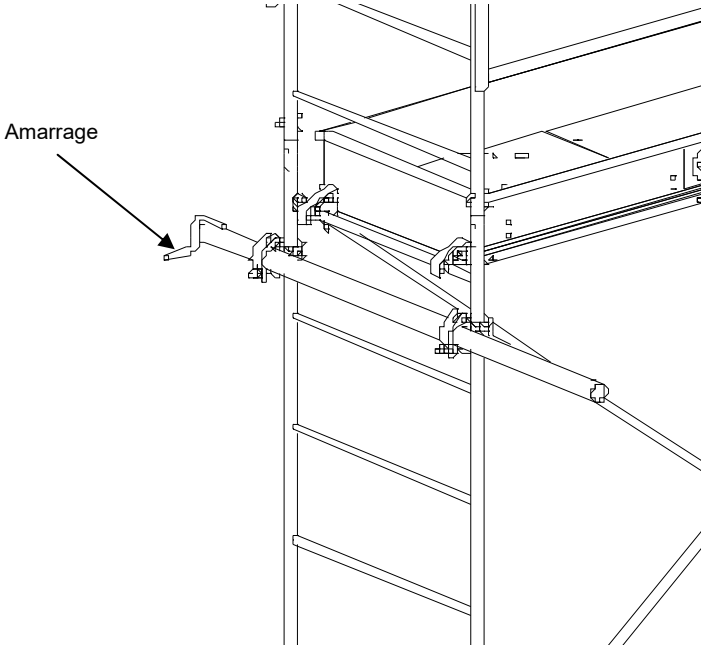
In this configuration, you can transport the scaffolding and small tools.



Special case: Anchors assembly

D040373A



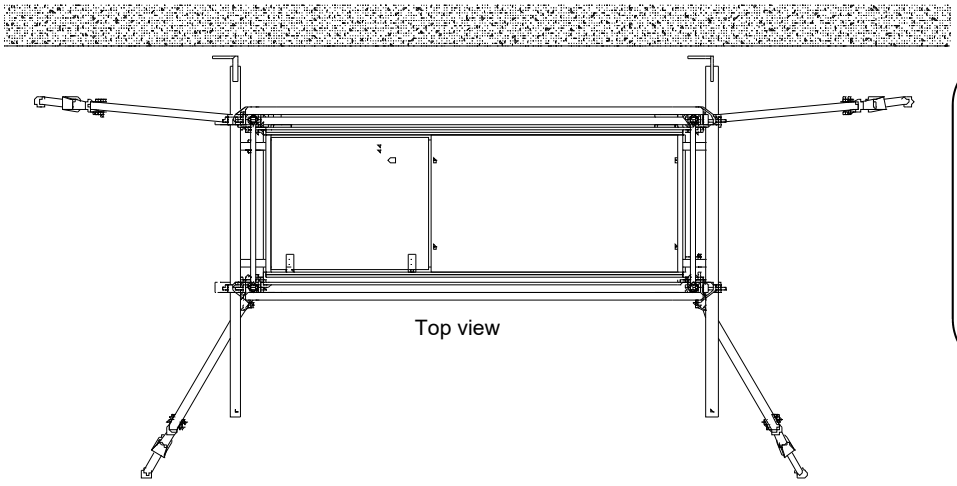


With a wind speed superior to 45 kmph, it is mandatory to either disassemble or anchor it at the top.

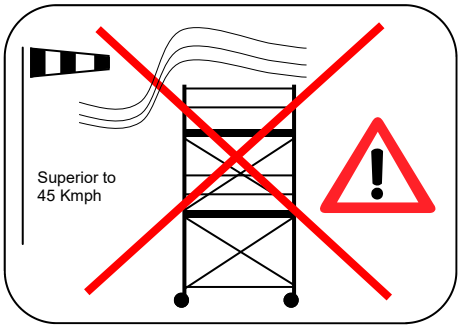
If you chose to anchor:

- Set the stabilizers according to the below picture
- Add 2 anchors at the top.
- Anchors not included in the package
- Complete anchoring kit reference 20865

If the wind exceeds 45 kmph, it is forbidden to use the scaffolding, even if it is anchored.



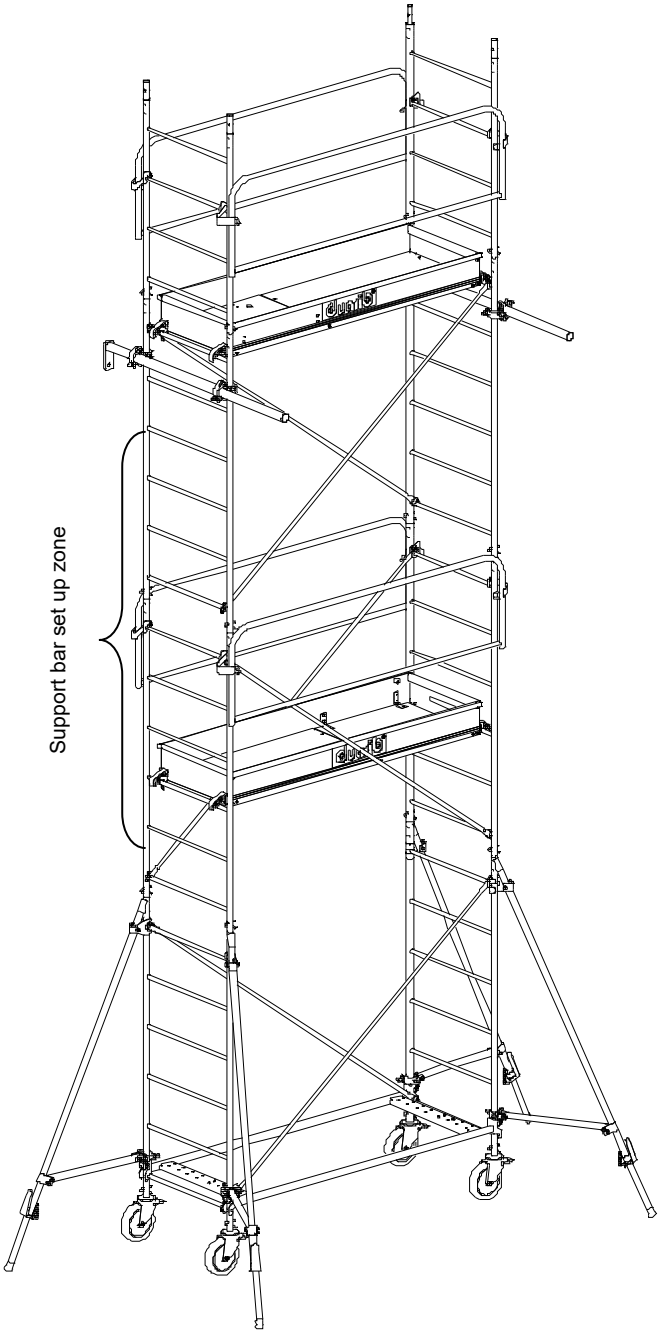
Top view

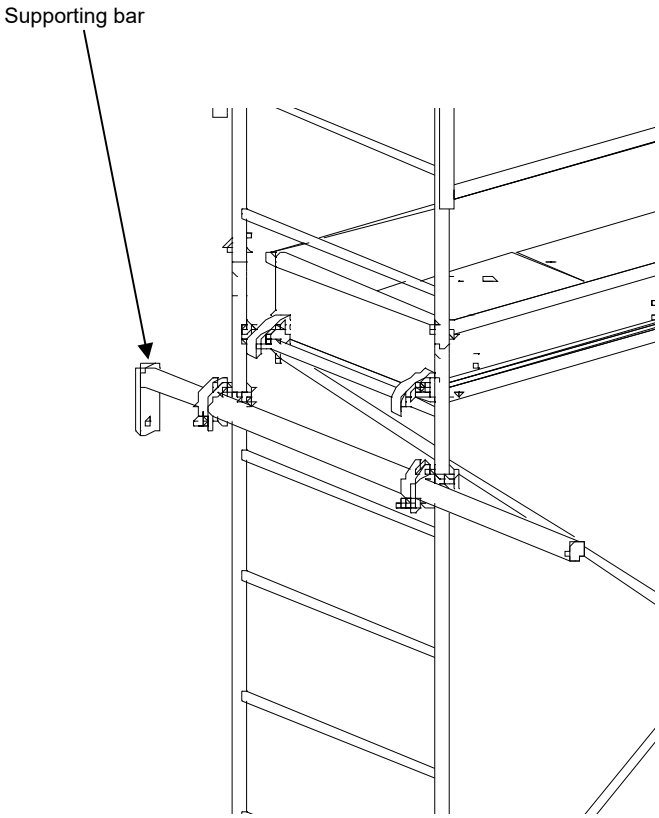


- Use the scaffolding when the wind doesn't exceed 45 kmph.
- If the wind exceeds 45 kmph, anchor the scaffolding at the top or disassemble it.

Special case: Support assembly

D040373A

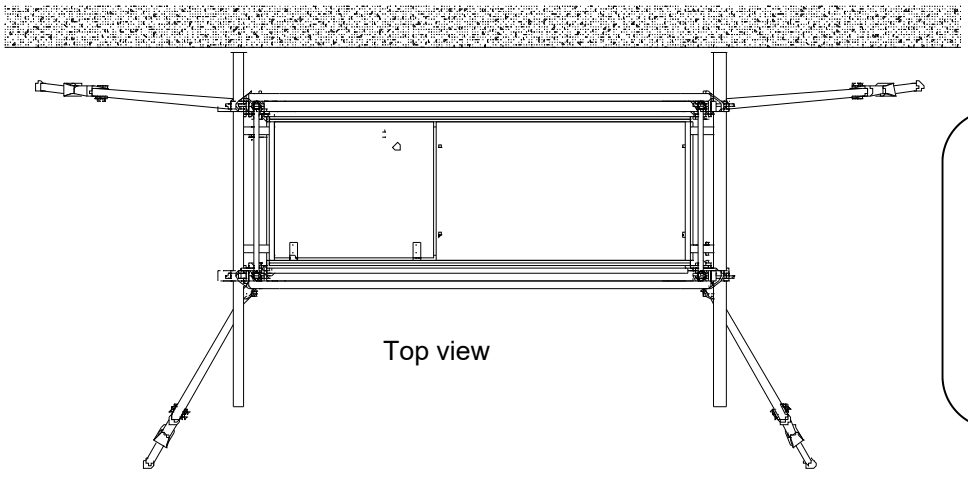




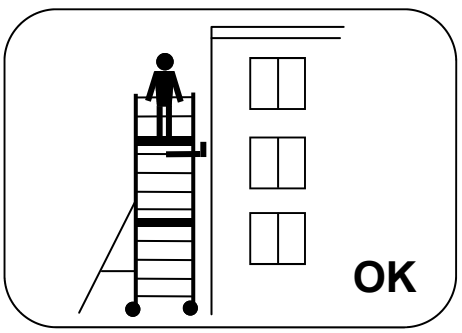
Here are some ways to guarantee the scaffolding's stability when mounted in front of a building:

- Set the stabilizers according to the below picture
- Add 2 support bars on the upper end (one on each vertical upright)
- Support bars not included in the package
- One for support consists of one 20870 bar and two 50888 collars

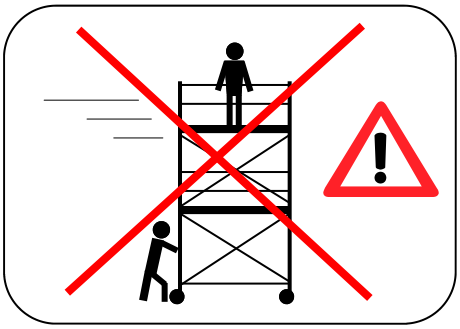
Supports must always be set at least at the same level as the stabilizer's upper attachment point.



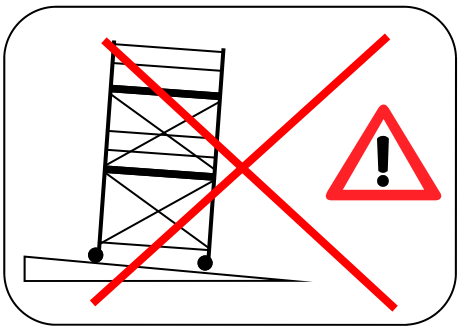
Top view



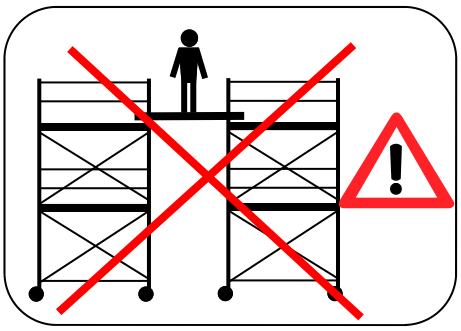
- When working on the front of the building, use stabilizers and add 2 support bars.



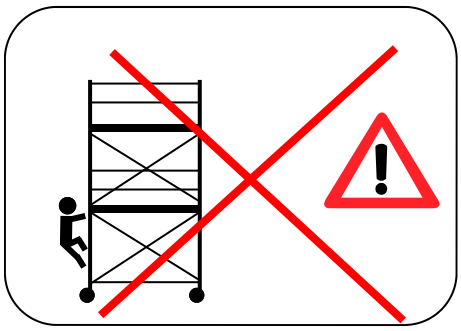
- It is forbidden to move a scaffolding that has a rolling bridge, a crane or handling equipment.
- the moving area must be free of obstacles.
- The scaffolding can only be manually moved on solid ground (for a loose ground, plan a roll out walkway), free of personnel or tools, with the space between stabilizers and the ground being very low.
- Do not move the scaffolding if the wind speed exceeds 45 kmph.
- It is forbidden to move the scaffolding when operators or tools are still on it.



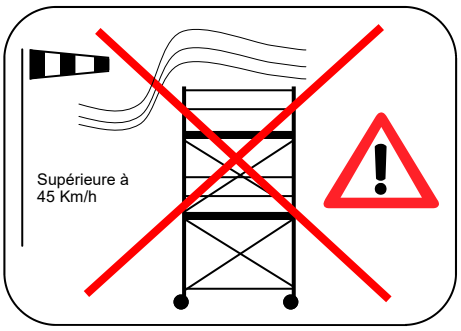
- All 4 wheels must always touch the ground in order to support the work load and the structure's own weight.
- Make sure that support points can bear the load on the ground and that contact surface is properly calculated according to the ground's type (on loose ground, use wedges under the wheels and the stabilizers, do not use hollow breeze blocks or any other non reliable wedges).
- Make sure the scaffolding is on a level.
- It is forbidden to use a scaffolding that has not been vertically assembled (1% tolerance).



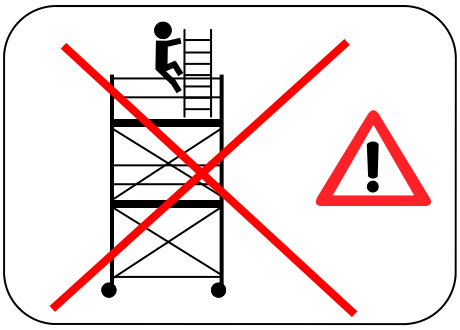
- It is forbidden to jump on floors.
- It is forbidden to create a bridge between a rolling scaffolding and a building or any other fixed structure.
- It is forbidden to use planks as a floor.



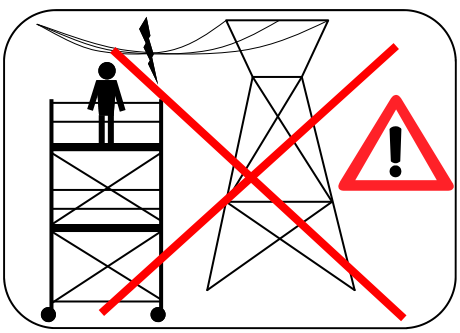
- Only go up or down the scaffolding through the trapdoor in the floors.



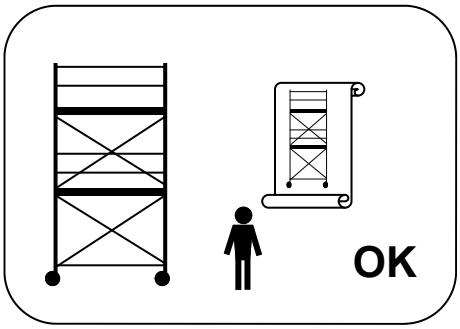
- Do not use or move the scaffolding if the wind speed exceeds 45 kmph.
- The scaffolding must be secured at the end of the day, by anchoring it or disassembling it.
- Beware of turbulences when near the angle of a building or under a porch.



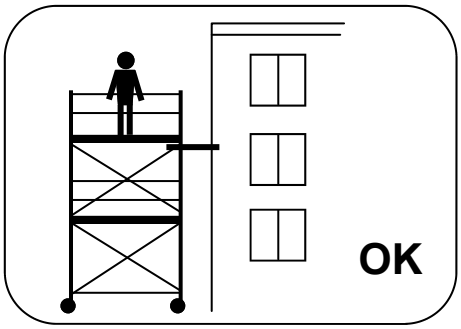
- It is strictly forbidden to extend the height over the one mentioned in this user guide.
- It is forbidden to set up a ladder or any other accessory on the floor to extend the scaffolding.



- Make sure the work area is clear of any bare and plugged conductive material.

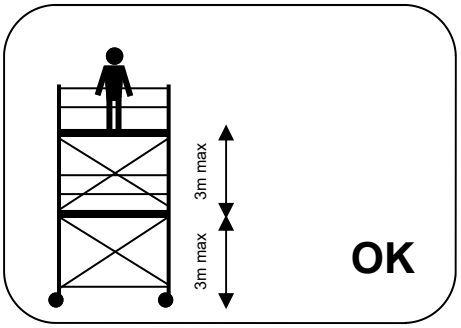


- Assembly and disassembly must be performed by operators who have been trained in assembly and security instructions.
- Only use parts in good condition we have manufactured and are referenced in the nomenclature.
- For any use not compliant to the user guide, please contact the manufacturer.
- Before going on the scaffolding, please check that stabilizers are tightened and wheels locked.
- Check that all the parts are pinned and that security features are locked.
- During assembly and disassembly, you must wear Personal Protective Equipment, such as: hard hat, safety shoes, gloves…
- Respect the assembly order described in this user guide to the letter

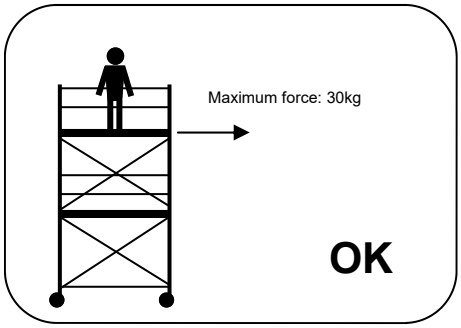


- Pour la gamme AC150, la charge d'une roue est limitée à 175 kg. Pour les gammes AC200 et AC250, la charge d'une roue est limitée à 250 kg.

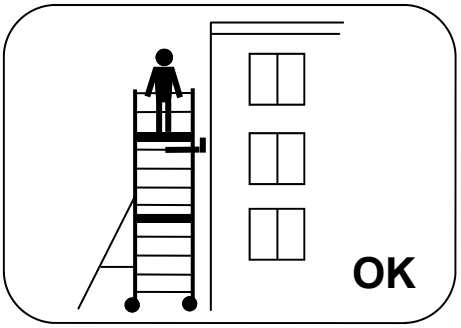
- Anchor the scaffolding to a building or any other surface that can bear the stress.
- Anchor the scaffolding on the top part at the end of each operation.
- To use a scaffolding with a wind speed superior to 45 kmph, it must be anchored.



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



- Horizontal forces must not exceed 30 kg on the last floor level.



- When working on the front of the building, use stabilizers and add 2 support bars.

MAINTENANCE:

Before any assembly or use, you must check all the parts of the scaffolding to see if any could be defective and replace it, if necessary.
You must make sure that:

- Wheel treads and their brakes work properly.
- All lock mechanisms (base body, safety rails, braces) work properly.
- The floor's plywood is in good condition.

DISASSEMBLY:

- Before any disassembly, check that the wheels are locked and stabilizers are firmly tightened.
- During the disassembly, follow the opposite order to the assembly instructions, be it for the braces, the safety rails, the pins or any other part.
- Disassemble them gradually to operate with maximum security.