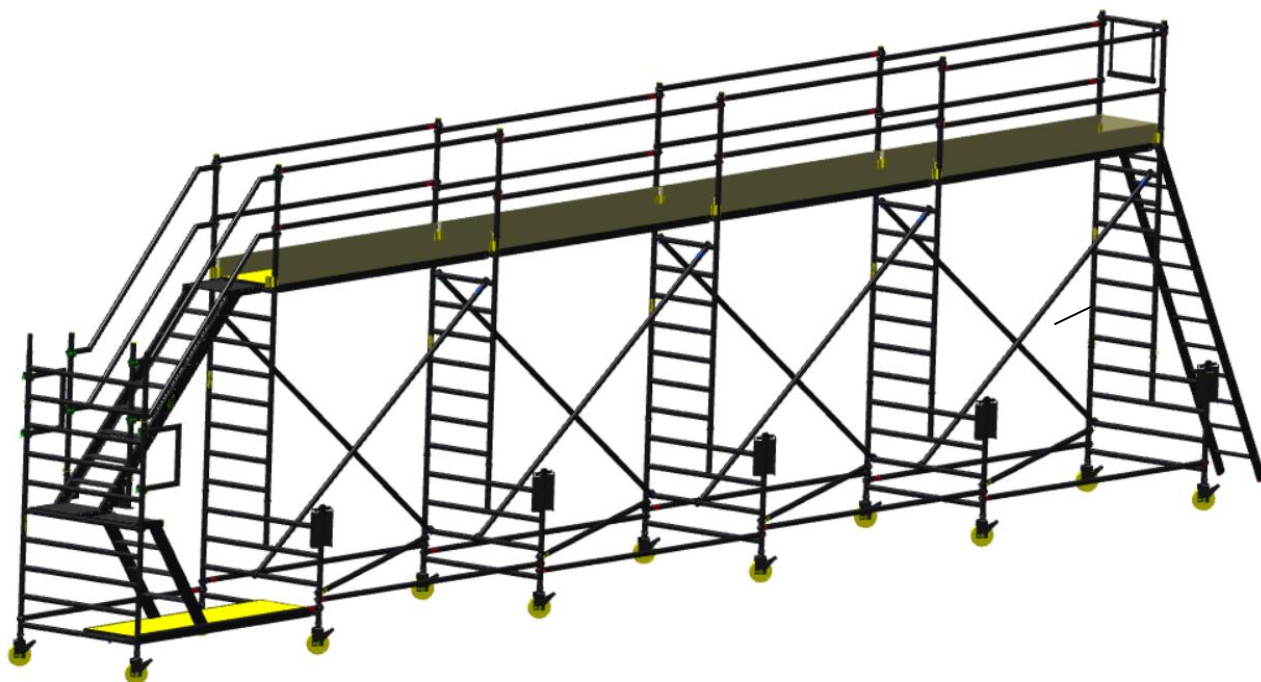




**ASSEMBLY & USER MANUAL**  
**In accordance with NEN-EN1298:1996**

# **CUSTERS®**

## **DE-ICING SCAFFOLD**



Maximum load	: 200 kg/m <sup>2</sup>
Platform height	: 3,15-3,31 metres

Art. 9505.200.800DU assembly instructions for de-icing scaffold 2019  
March 2021

**CUSTERS HYDRAULICA B.V.**

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## **Table of contents**

1. Introduction .....	3
2. Warranty and liability.....	4
3. Checking the delivery .....	4
4. Safety instructions .....	5
4.1 Checking the assembly.....	5
4.2 Assembly .....	5
5. Assembly of the de-icing scaffold .....	6
5.1 Assembly of the next scaffold bay .....	10
5.2 Scaffold bays 3 & 4: Repeat steps 17-27 .....	14
5.3 Assembly of the stair tower.....	15
6. Using the de-icing scaffold .....	21
7. Moving the de-icing scaffold .....	21
8. Disassembly of the de-icing scaffold .....	22
9. Maintenance .....	22
10. Transport and storage .....	22
11. List of parts.....	23

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## **1. Introduction**

The Custers de-icing scaffold forms part of a wide range of aluminium scaffolds.

The Custers de-icing scaffold, when erected in accordance with these instructions, complies with the following standards:  
EN1004:2005 and EN 1298:1996.

Attention: please note that the use of mobile scaffolds according to EN1004:2005 may be subject to national legislation.

The purpose of these assembly instructions is to guide you step by step through the safe and easy assembly of your scaffold. Incorrect assembly can endanger the user. Read the safety instructions carefully before assembly. Assembly and disassembly must be carried out by experienced and competent persons.

**The user is responsible for ensuring that this manual is available at the place of assembly and use of the de-icing scaffold, as well as to the person supervising the work.**

If there are any ambiguities regarding this manual, please contact your supplier or the manufacturer.

Manufacturer:

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Supplier:



## **2. Warranty and liability**

Custers gives a warranty against material and manufacturing defects up to 12 months after the date of delivery.

The warranty means that we will repair the defects at our expense or – at our sole discretion - take back all or part of the delivered goods and replace them with a new delivery.

If we replace the delivered products in fulfilment of our warranty obligation, the replaced products shall become our property again. All costs exceeding the above obligations, shall be borne by the client. If products are handed over for processing, repair, etc., only the correct execution of the requested service is guaranteed.

Our liability does not apply:

- a. If the defect is due to improper use or from causes outside of a material or manufacturing defect;
- b. If the cause of the defect cannot be clearly demonstrated.
- c. If all instructions for the use of the product, including the guidelines given in this assembly manual, have not been observed.

The manufacturer's liability does not apply if the buyer makes changes or repairs to the delivered products on his own initiative.

## **3. Checking the delivery**

Check immediately upon receipt that the de-icing scaffold has been delivered complete and undamaged. Contact your supplier immediately if you notice any damage to the parts of the de-icing scaffold or if the delivery is incomplete.

## **4. Safety regulations**

### **4.1 Checking the assembly**

Verify that the assemblers are professionally trained and check that the assembly site is suitable and safe.

Attention:

- The floor must have sufficient load-bearing strength and be flat.
- The area must be free of obstacles on the ground or above ground.
- Check that the wind conditions are such that the scaffold can be used (see chapter 6)
- Check that all parts and any ropes for hoisting are available.
- Damaged, incorrect or non-original parts must never be used!

### **4.2 Assembly**

The assembly of the de-icing scaffold is described in the assembly instructions and must be carried out by at least two people.

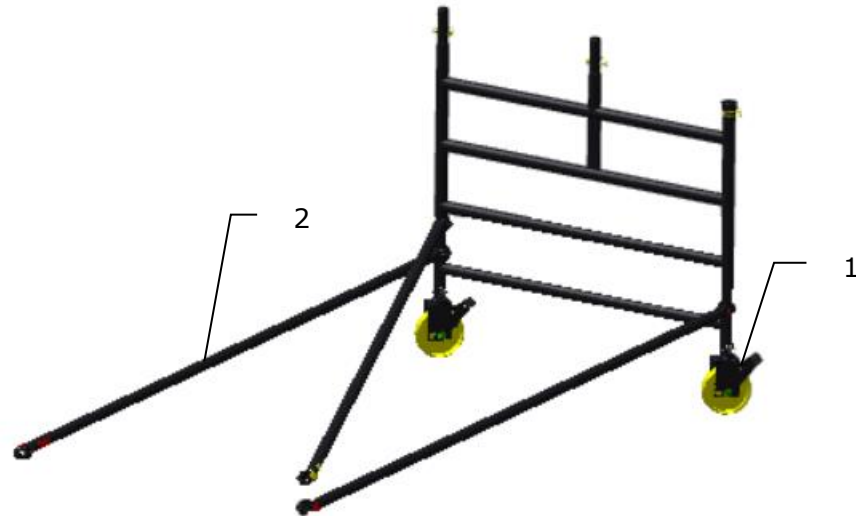
The de-icing scaffold must be set up horizontally; check this with a spirit level; balance by turning the spindle nuts on the swivel castors. A maximum variation of 1% (= 1 cm per 100 cm) is permissible.

The castors must always be on the brake except when relocating.

Make sure that the castors are locked by clicking the locking lever on the protruding edge of the reinforcement ring.

The platforms must be secured by sliding the anti-lift ratchet under the rung. The frames and the railing posts are secured together using locking pins. The guard rails (horizontal rungs) must be attached to the uprights in such a way that the openings of the claws point outwards. The work platform must be equipped with guard rails, knee railings and toe boards.

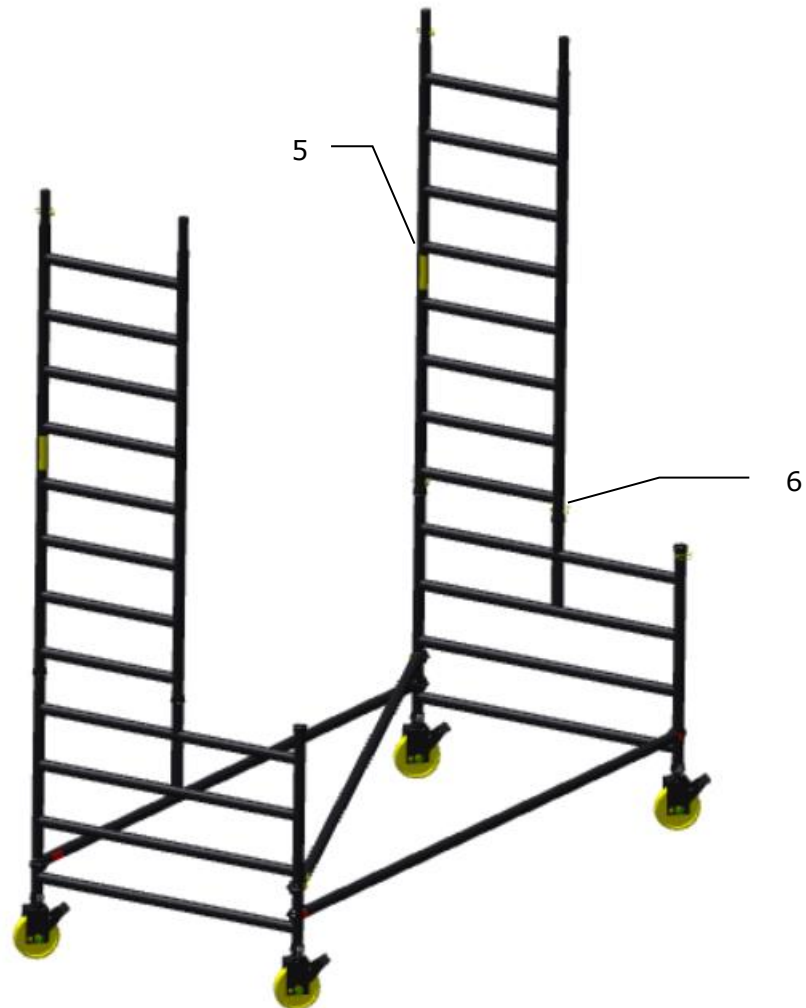
## **5. Assembly of the de-icing scaffold**



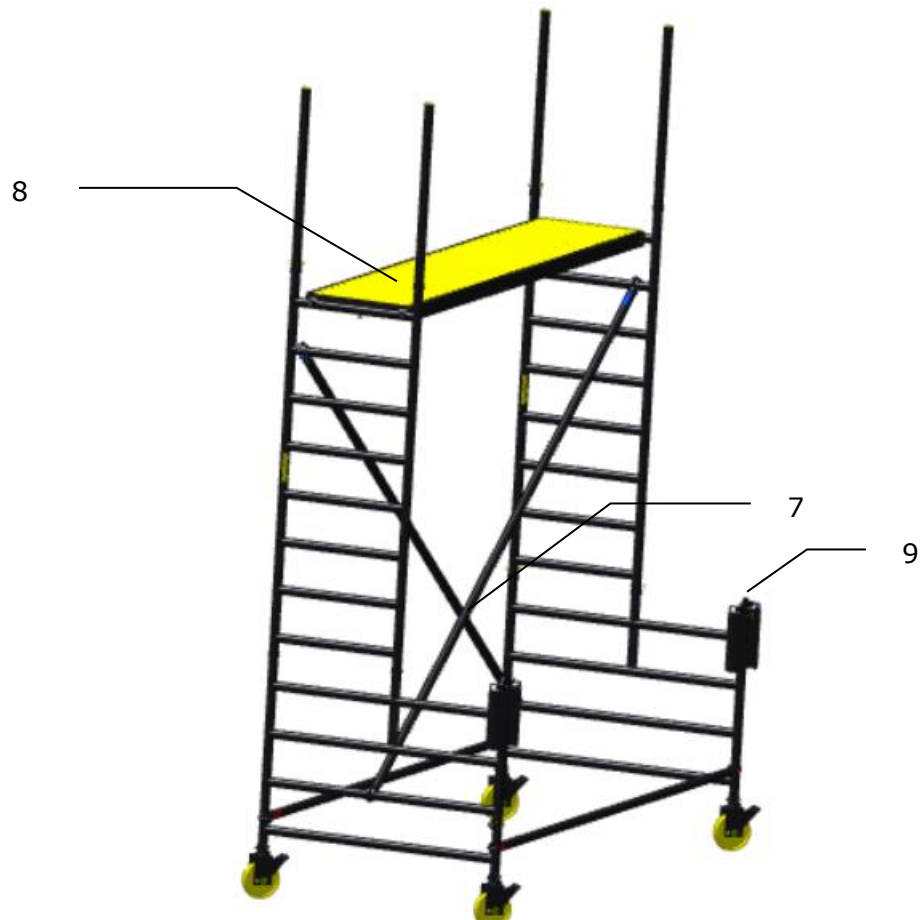
- 1: insert both castors into the frame; assure that the castors are tightened properly.  
2: mount the horizontal ledgers and the horizontal-diagonal ledgers.



- 3: insert both castors into the frame; assure that the castors are tightened properly.  
4: mount the horizontal ledgers



- 5: mount both 8-rung base frames on the frame
- 6: insert the spring cotter pin to secure the frames



7: place both diagonals

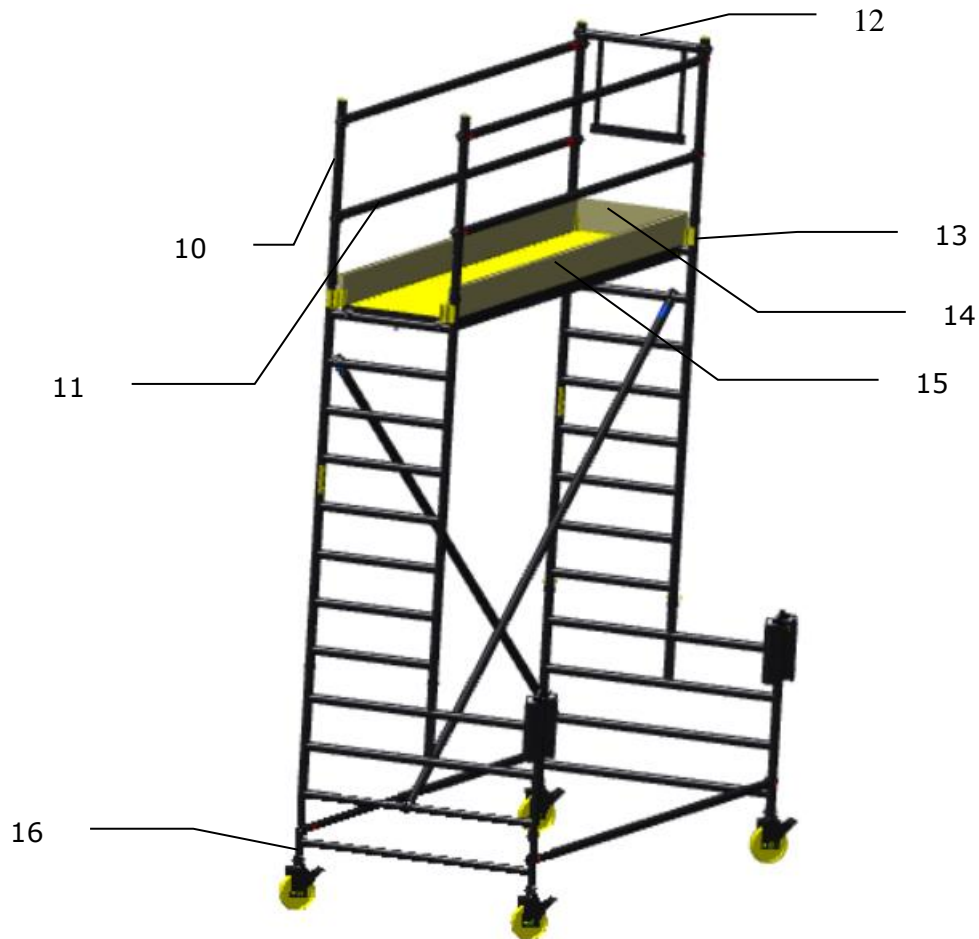
8: place the work platform and slide both anti-lift pins under the rung

9: place the ballast weights in the ballast holder secured with a spring cotter pin



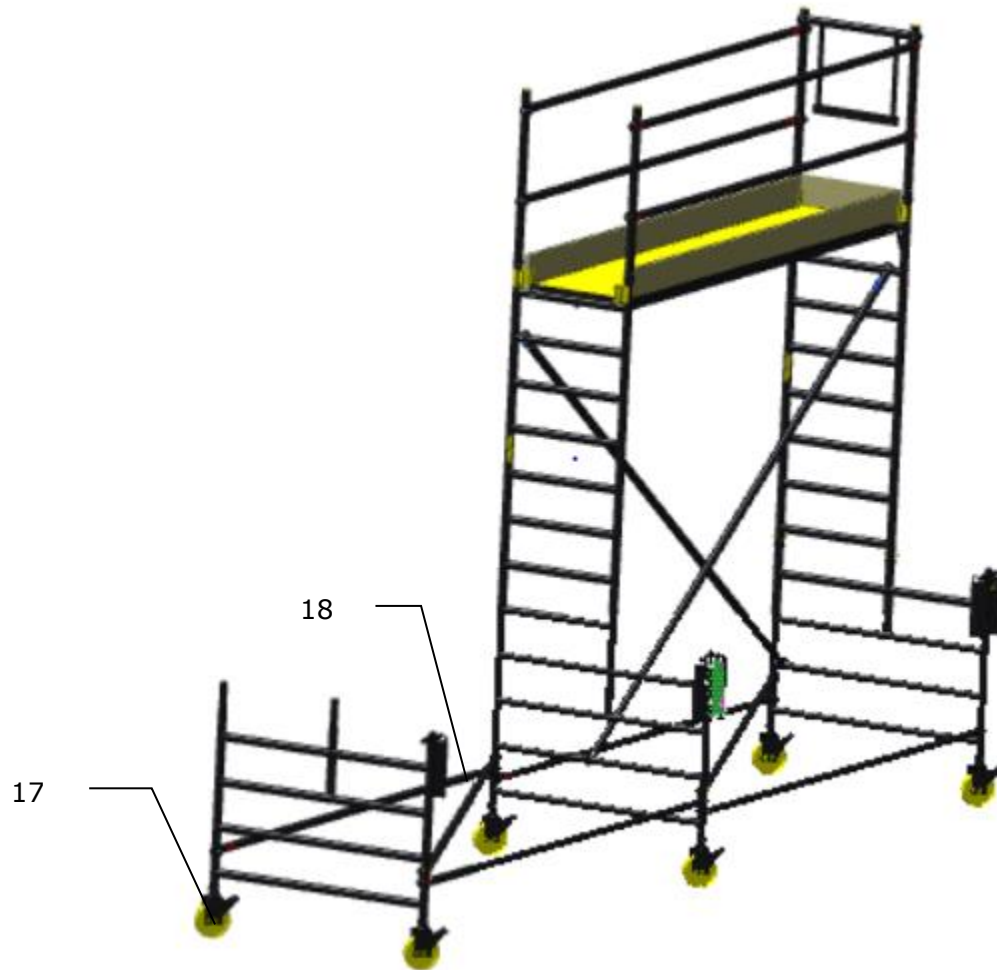
Detail ballast holder



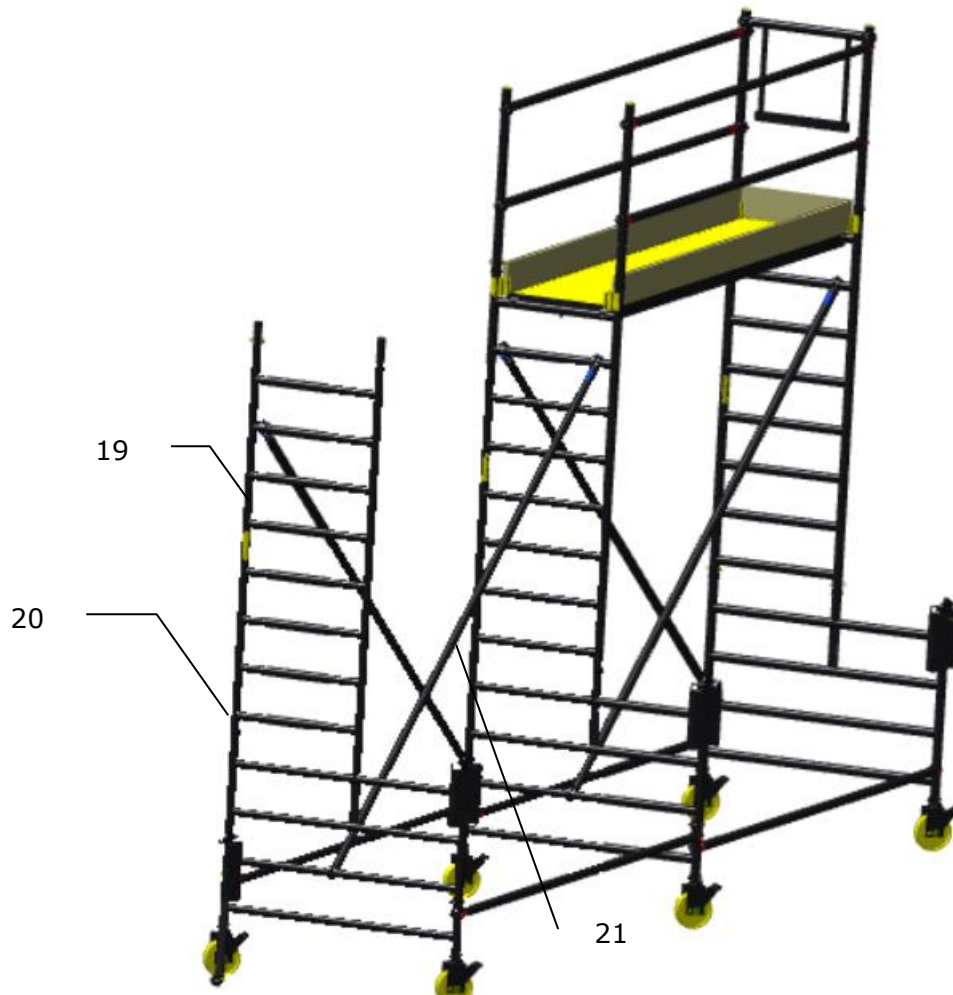


- 10: mount the railing posts and insert the spring cotter pins in the holes between the railing posts and the frame
- 11: mount the horizontal ledgers
- 12: mount railing frame of the de-icing scaffold
- 13: mount the toe board holders
- 14: insert the end toe board in the holders
- 15: insert the longitudinal toe boards in the holders
- 16: lock the brakes; level the scaffold horizontally by turning the spindle nut of the castors

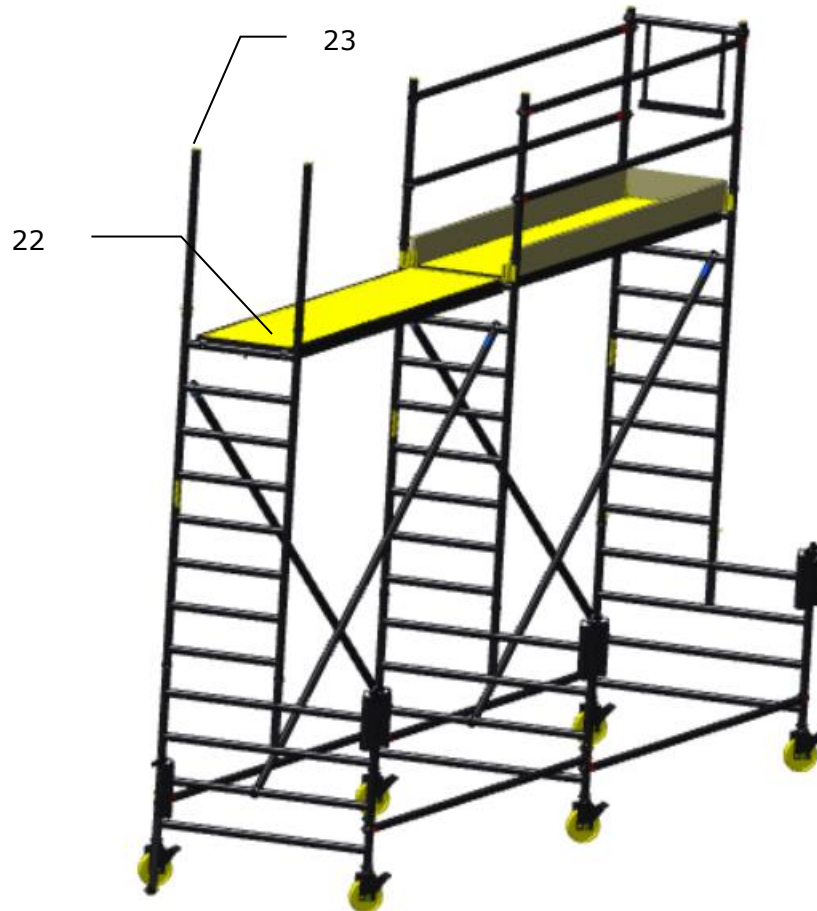
### **5.1 Assembly of the next scaffold bay**



17: insert both castors into the frame; assure that the castors are tightened properly.  
18: place the horizontal ledgers and the horizontal-diagonal.

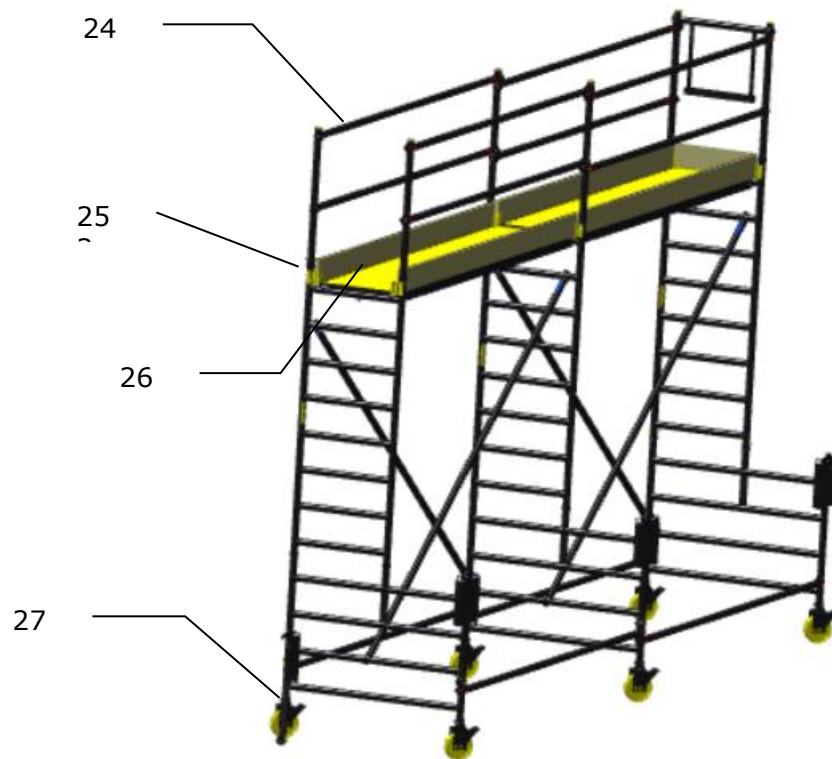


- 19: mount an 8-rung base frame  
20: insert the spring cotter pin to protect the frame  
21: mount both diagonals



22: mount the work platform and slide both anti-lift pins under the rung

23: mount the railing posts and insert the spring cotter pin in the holes between the railing posts and frame

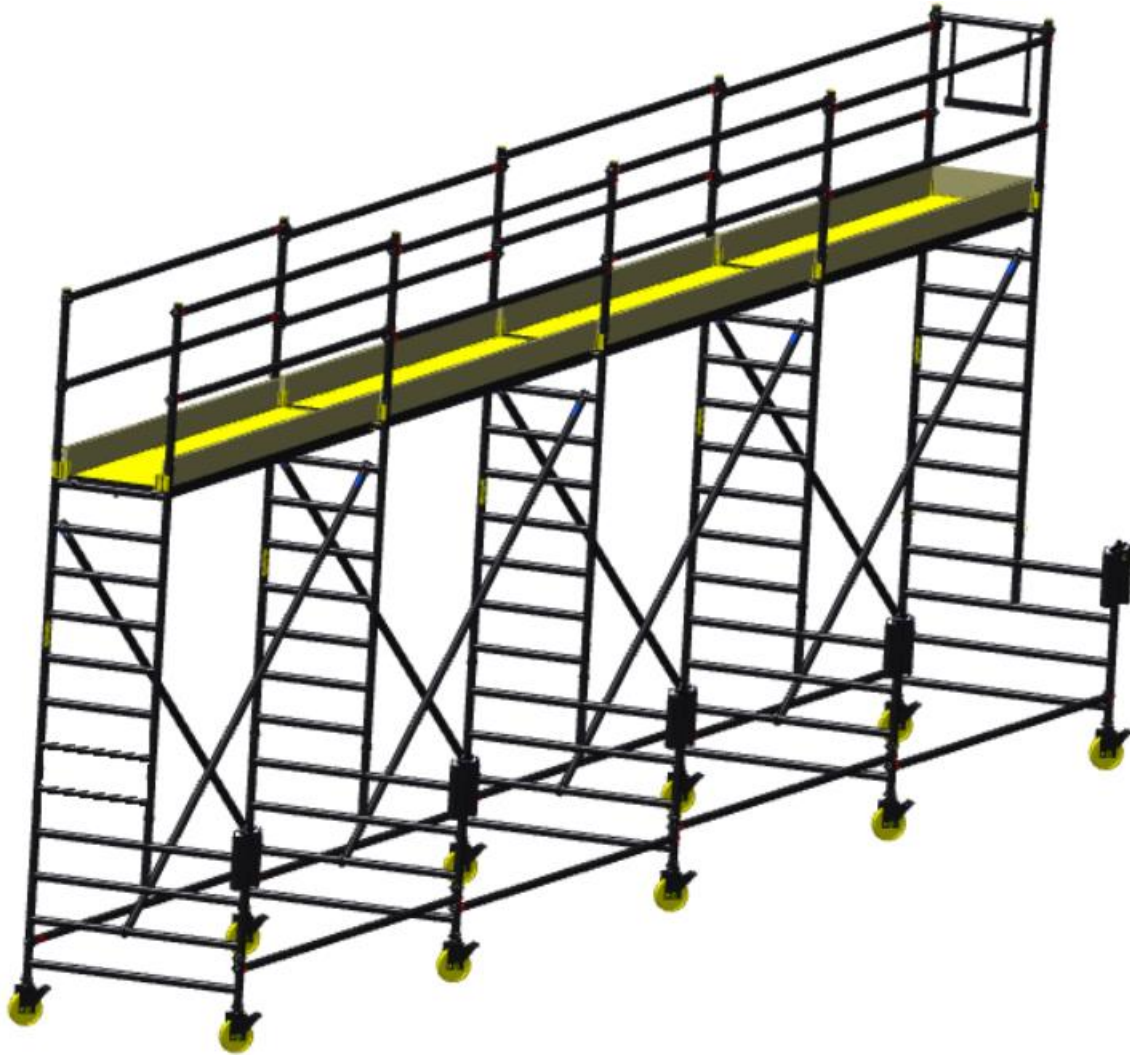


24: mount the horizontal ledgers

25: mount the toe board holders

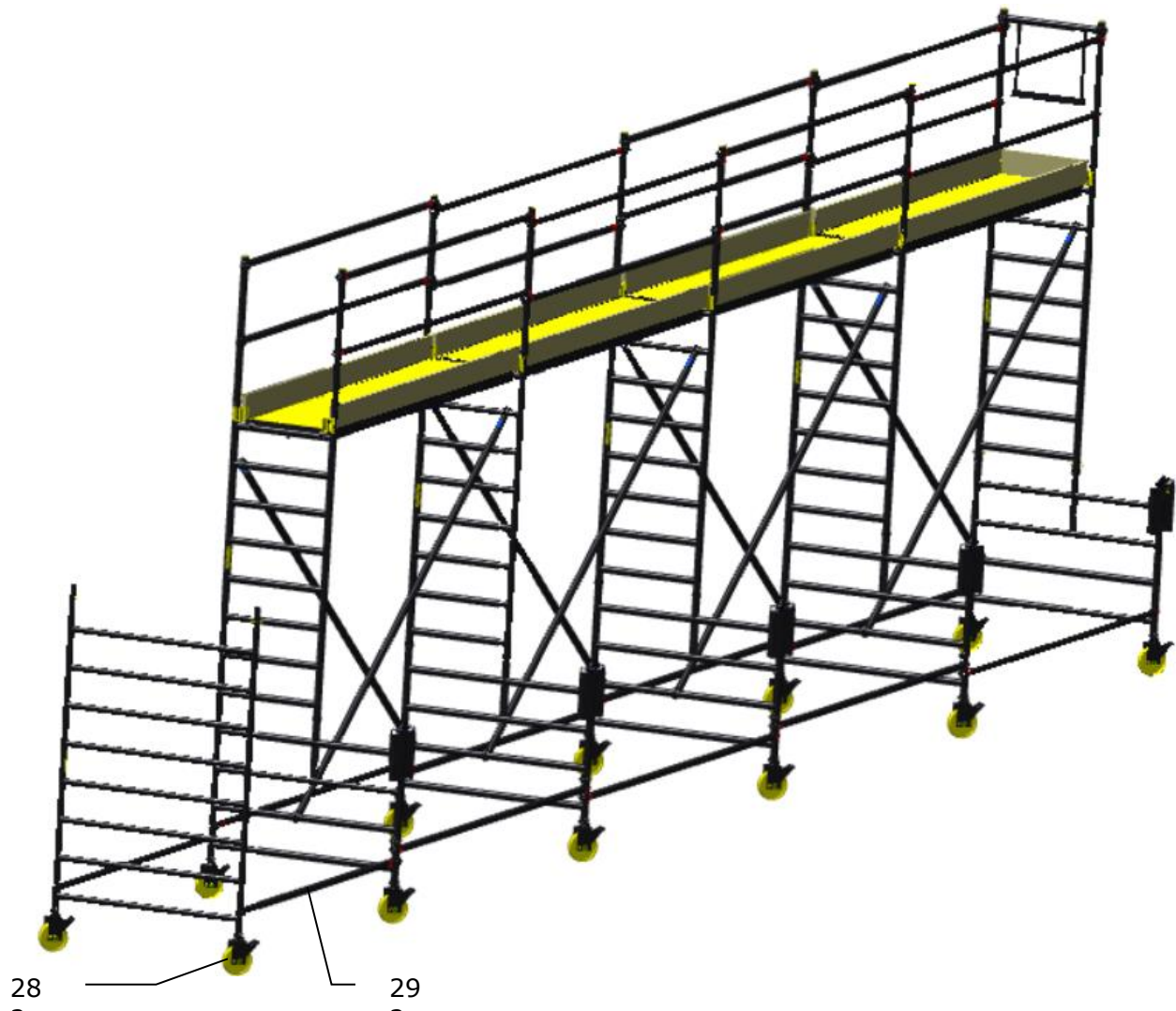
26: insert longitudinal toe boards in the holders

27: lock the brakes; level the scaffold horizontally by to the spindle nut of the castors

**5.2 Scaffold bays 3 & 4: Repeat steps 17-27**

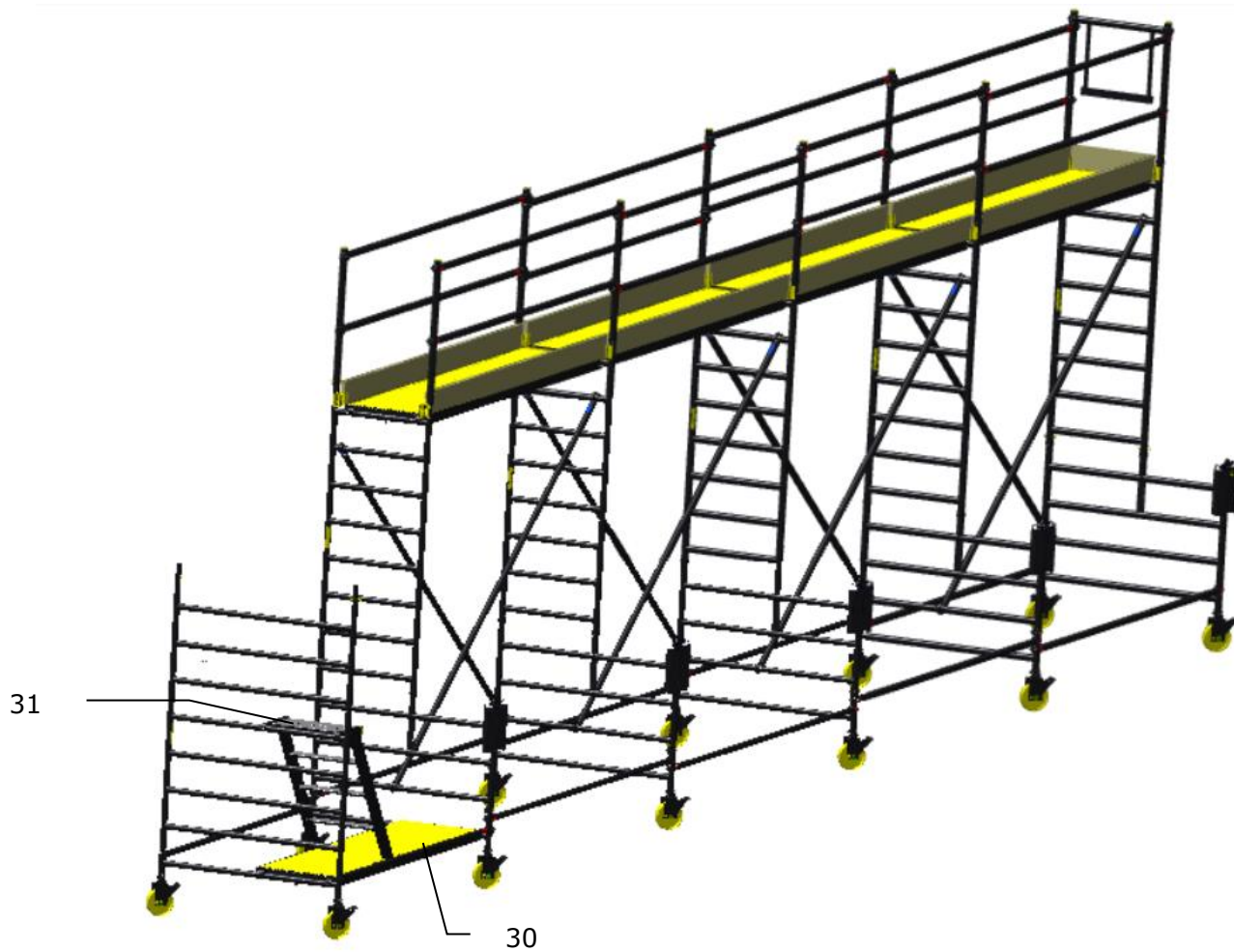


### 5.3 Assembly of the stair towers



28: insert both castors into the 8-rung base frames; make sure that the castors are tightened properly

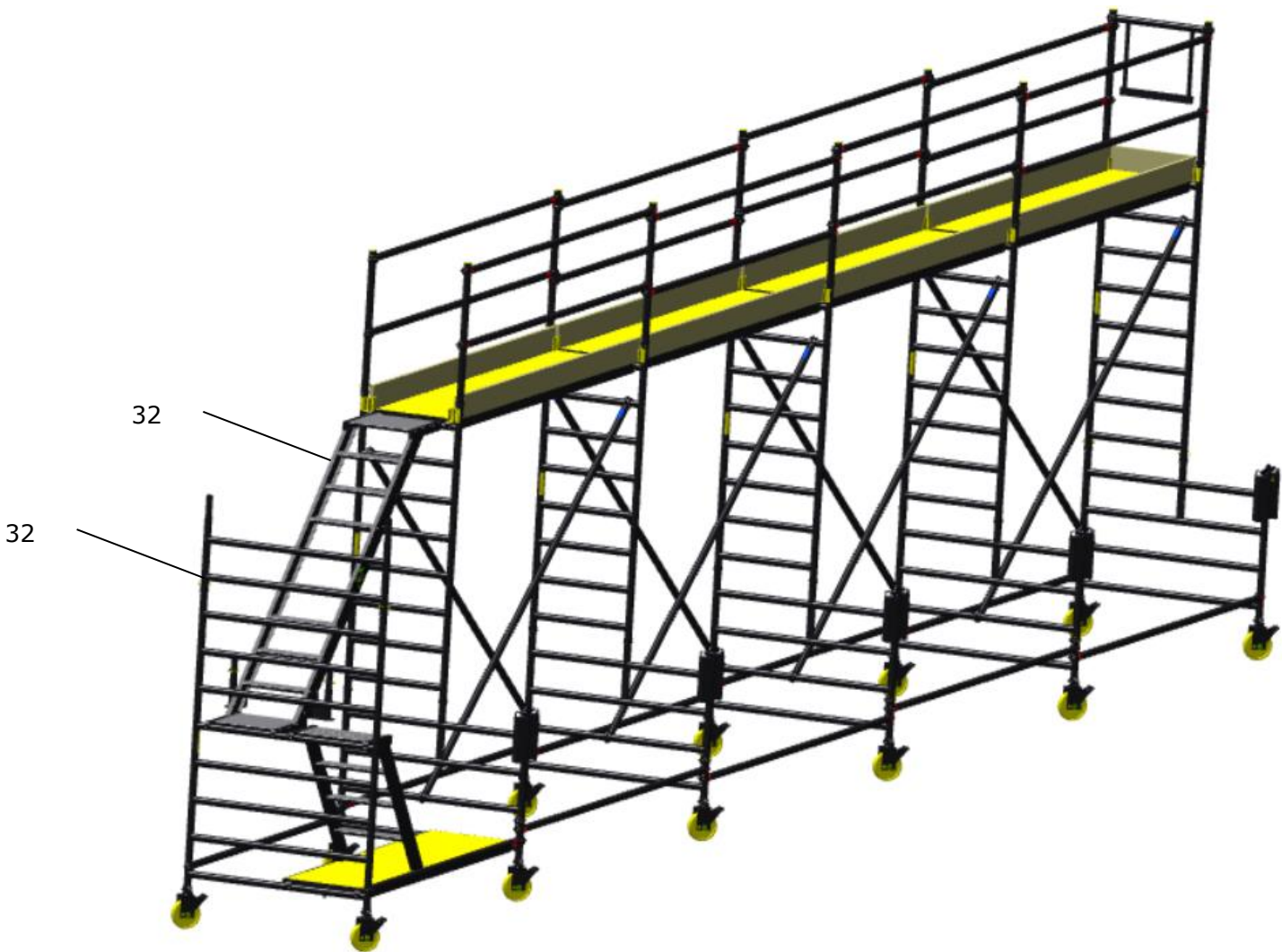
29: mount the horizontal ledgers



30: mount the platform and slide anti-lift pins under the rungs

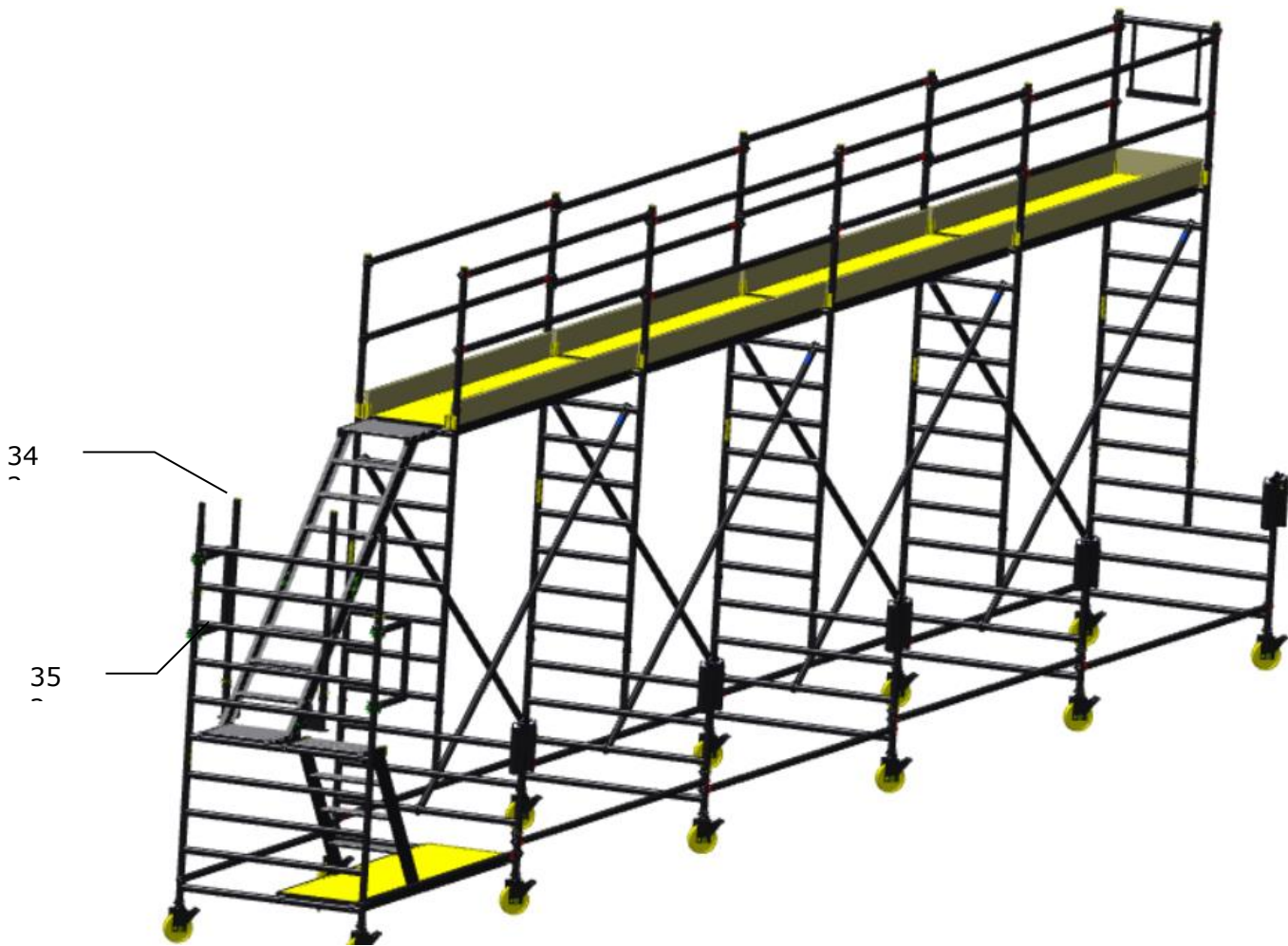
31: mount the small stair



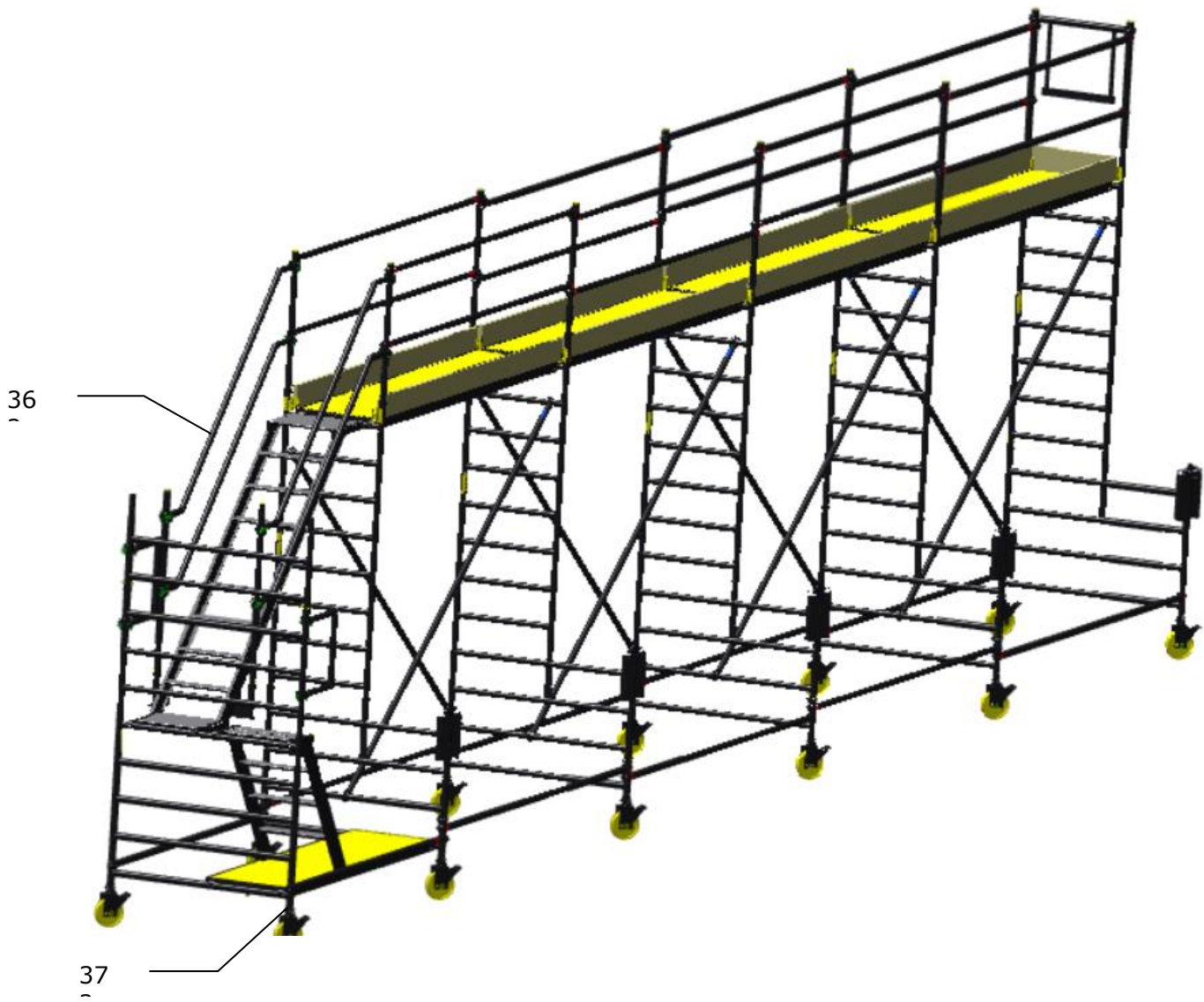


32: mount the second step

33: mount the 8-rung base frames and insert the spring cotter pin to protect the frame

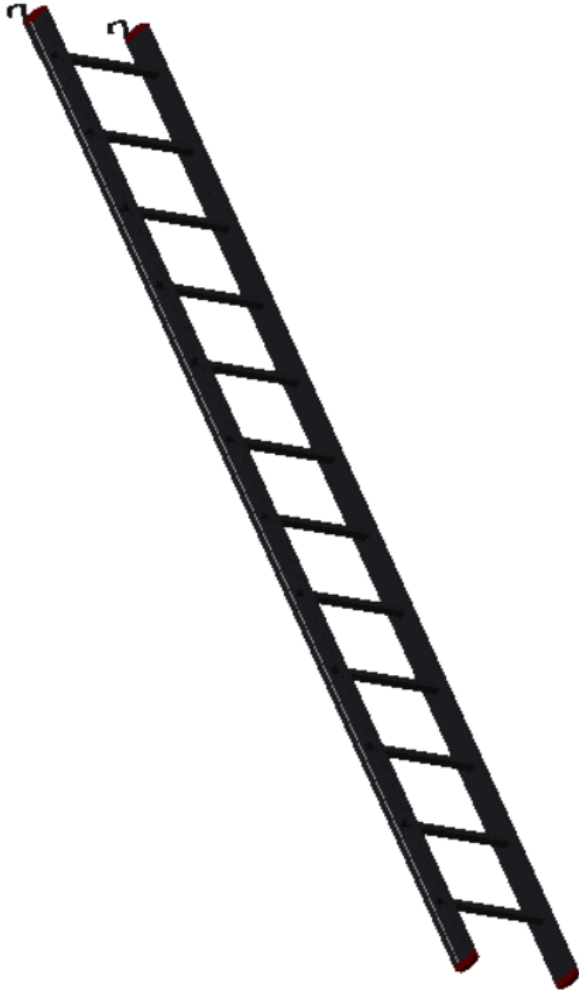


- 34: mount the railing posts on the stair and insert the spring cotter pin in the holes  
35: fix the U-profiles to the base frames



36: mount the 4 stair guard rails

37: lock the brakes; level the scaffold horizontally by turning the spindle nut of the castors



Instead of the stair tower it is also possible to use a stair (9501.300.046) with a chain for the de-icing scaffold (9509.903.143)

## **6. Using the de-icing scaffold**

Before each use, should verify that:

- the basic elements of the scaffold (castors with brakes) are in order,
- the overall construction is complete and in order,
- There are no changes in conditions which may affect the safe use of the scaffold.

The de-icing scaffold is intended to create a work platform to create for de-icing trucks.

- Access to the work platform is through the front of the scaffold by means of a stair or a stair tower.
- The work platform must be closed with a chain.
- It is not permitted to use the scaffold to cross over to other constructions
- Bridging between scaffolds and buildings is not permitted.
- Bridging between scaffolds is not permitted.
- The maximum workload is 200 kg/m<sup>2</sup> (scaffold class 3).
- It is not permitted to jump on platforms.
- do not place any crates, stairs or other equipment on the work platform to make the platform higher.
- It is not permitted to work on the scaffold if the wind force is greater than 6 Beaufort (large branches moving, umbrellas flapping, the wind speed of 11 to 14 m/s = ± 45 km/h). If a wind force greater than 6 Beaufort is expected, a freestanding scaffold must be disassembled or moved to a wind-free zone.
- The same procedure must be followed when the scaffold is not in use.
- Be aware of apertures in buildings, uncovered buildings and building corners that may cause additional wind loads.
- Use caution when exerting horizontal forces (such as drilling), which will push the scaffold away from a structure; the maximum horizontal load is 30 kg. Horizontal ledgers, guard rails, knee railings and diagonals must not be used as stairs or footrests.
- It is forbidden to attach wind-catching surfaces, such as billboards or banners, to freestanding scaffolds.
- The scaffold may not be exposed to aggressive liquids or gases.
- Hoisting equipment must not be attached to the scaffold.

## **7. Moving the de-icing scaffold**

The scaffold may only be moved in its longitudinal direction and by hand from the ground. When moving the scaffold, the normal walking pace must not be exceeded and there must be no persons or materials on the scaffold. When moving the scaffold, be aware of obstacles on the ground and at height.

Take special care when moving the scaffold on poorly suited ground (slopes, soft ground, potholes, etc.); make sure that the castors are braked or free at the right time.

## **8. Disassembly of the de-icing scaffold**

Disassembling the de-icing frame takes place in reverse order. Start at the top with the toe boards and their holders.

Disassemble the de-icing scaffold from top to bottom. Do not throw the parts to the floor!

## **9. Maintenance**

All parts, especially the moving parts and the welded joints must be checked regularly for wear and damage.

Missing and defective parts must be replaced.

Tubes with dents deeper than 3 mm or with cracks must no longer be used. Platforms with tubes with dents deeper than 2 mm or with cracks must no longer be used.

Moving parts, including castor spindles, must be clean and run smoothly.

Repair of scaffolding material must be carried out at all times in consultation with the manufacturer.

A de-icing scaffold for professional use be inspected annually by a competent body/inspector.

## **10. Transport and storage**

- Parts must be handled and transported with care to avoid damage.
- Storage must be done in such a way that only undamaged parts in the correct amount are available for erecting the de-icing scaffold.
- All parts must be checked before assembly to ensure that they function properly and are free of dirt and damage.

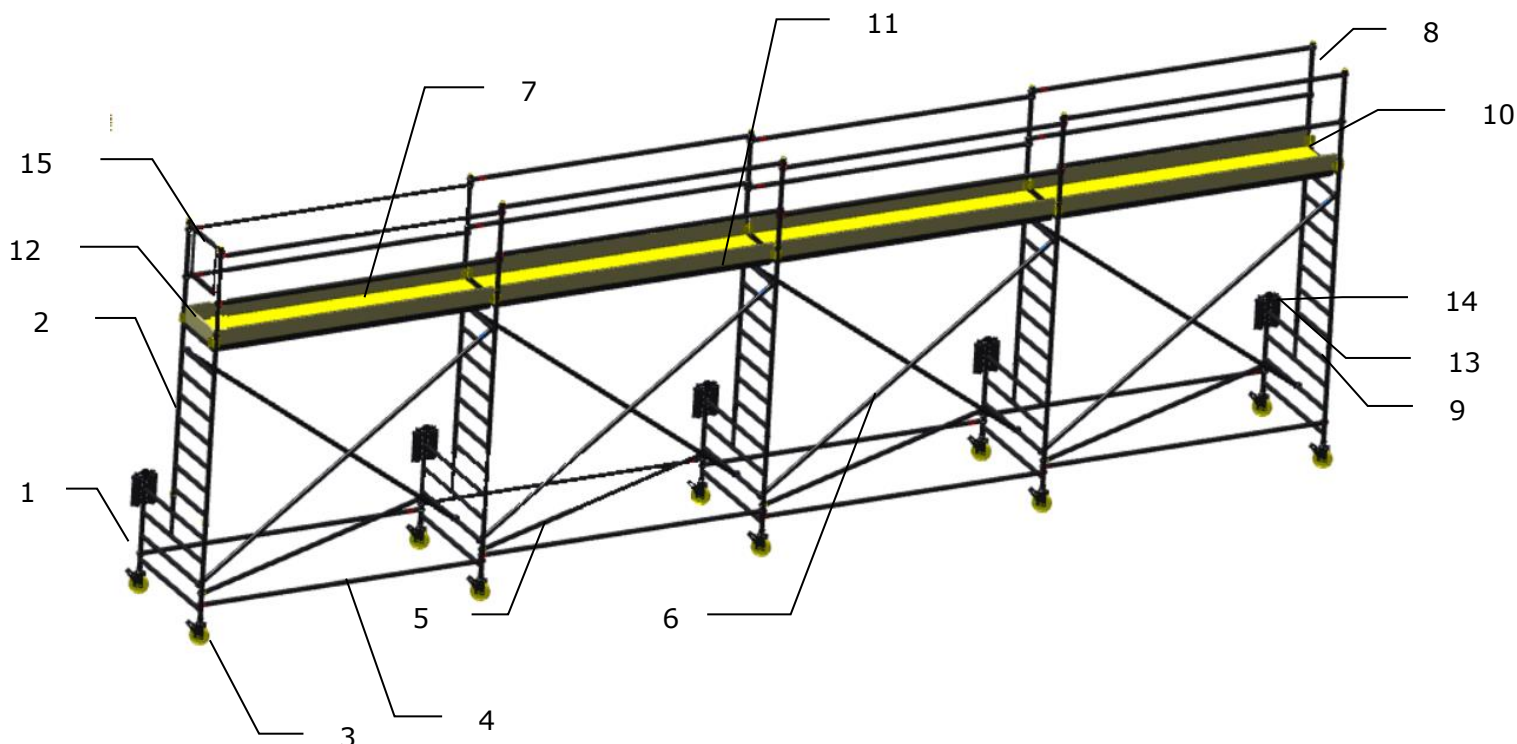


## 11. List of parts

The following table lists the parts required for erecting a de-icing scaffold (length 12.4m).

Make sure that these parts are available.

No.	Amount	Part	Art. no.	Dimensions (m)	Weight (kg)
1	5	Base frame (4-rungs) de-icing scaffold	200.800	1.15 x 1.35 x 0.06	7.2
2	5	8-rung base frame, small	200.012	0.75 x 2.15 x 0.06	8.5
3	10	Swivel castor	510.050	Round 0.2	5.7
4	24	Horizontal ledgers	200.040	3.1 x 0.05 x 0.05	3.2
5	4	Horizontal-diagonal	902.050	3.4 x 0.05 x 0.05	3.5
6	8	Diagonals	902.042	3.85 x 0.05 x 0.05	3.9
7	4	Work platform	311.030	3.1 x 0.61 x 0.08	17.7
8	10	Railing posts	200.752	1 x 0.05x 0.05	0.6
9	25	Spring cotter pin	410.162	Long 70mm, round 10mm	0.06
10	10	Toe board holders	800.087	0.12 x 0.09 x 0.08	0.2
11	8	Longitudinal toe board	902.080	3 x 0.16 x 0.03	6.2
12	1	End toe board	200.092	0.6 x 0.16 x 0.03	1.2
13	5	Ballast holder	200.753	0.2 x 0.13 x 0.1	0.3
14	10	Ballast 15kg	800.960	0.45 x 0.08 x 0.08	15
15	1	Railing frame	903.035	0.75 x 0.5 x 0.05	2.8
16	1	Chain for the entire de-icing scaffold	903.143		



### Assembly of the stair towers

No.	Amount	Part	Art. no.	Dimensions (m)	Weight (kg)
1	1	8-rung base frame, wide	200.010	2.15 x 1.35 x 0.06	12.5
2	1	Work platform	311.020	2.5 x 0.61 x 0.08	14.0
3	2	Horizontal ledgers	200.030	2.5 x 0.05 x 0.05	3.0
4	1	Stair 1m	906.030	1.45 x 0.58 x 0.35	8.5
5	1	2-rung base frame, wide	200.025	0.65 x 1,35 x 0.06	3.9
6	2	U-profile	920.072	0.58 x 0.58 x 0.1	2.6
7	1	De-icing scaffold stair	200.803	3.12 x 0.4 x 0.8	28.4
8	2	Railing posts 1250	200.815	1.12 x 0.06x 0.06	1.2
9	4	Spring cotter pin	410.162	Long 70mm, round 10mm	0.06
10	2	Swivel castor	510.050	Round 0.2	5.7
11	4	Guard rails stair	200.783	2.52 x 0.25 x 0.1	3.5

