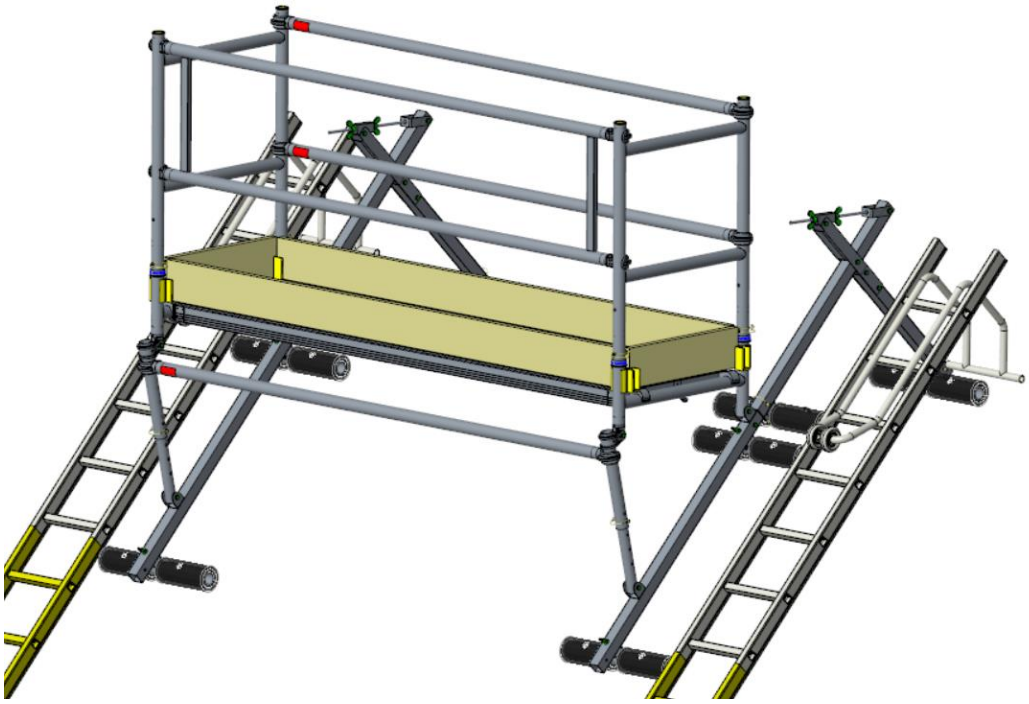
Assembly and operating instructions

CUSTERS® Chimney scaffold



Maximum load:	200 kg/m^2
Total load:	200 kg

Safe access

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IBAN: NL37 INGB 0652 0878 68 • BIC: INGBNL2A • KvK Limburg: 12017311 • BTW nr.: NL004225958B01

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1. Introduction

This instruction manual was made for the Custers chimney scaffold. It can be assembled in different lengths and versions. For platform length, you can choose between 1.8m, 2.5m, 3.0m, 4.0m and 5.0m. These are suitable for chimneys located exactly or nearly at the centre of the roof, with the choice of placing a platform on 1 side of the chimney, as well as placing a platform on both sides of the chimney. If you have a chimney located lower on the roof, you have the option of extending the girders to the required position using the extensions. This option is also very common for work on a dormer.

For the platform lengths 1.8m, 2.5m and 3.0m, there is the additional option of raising the scaffolding by 1 or 2 metres, if you have an extra-high chimney or dormer.

This instruction manual is intended to instruct you step by step how to assemble your scaffold easily and safely. Incorrect assembly may result in serious personal injury. Read the safety instructions carefully before assembly. The erection and dismantling should be done by experienced and competent persons only.

The user is responsible for ensuring that the instruction manual is available at the location where the chimney scaffold is assembled and used, as well as to the person supervising the work.

If there are any ambiguities with regard to this instruction manual, please contact your supplier and/or manufacturer.

Manufacturer:

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Website: www.custers.nl

Supplier:

2. Specifications

Standard:	EN 12811
Scaffolding class:	3
Max. load:	200 kg/m2, max 200 kg total.
Max. platform height:	0m, 1m, 2m (in relation to the roof)
Max. wind load:	6 Beaufort
Max. number of platforms to be loaded:	1
Min. number of persons assembled:	2
Roof angle:	Between 30 and 60 degrees

3. Warranty and liability

Custers provides a warranty for material and manufacturing defects for up to 12 months after delivery.

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

If we replace products delivered to fulfil our warranty obligation, the replaced products become our property. All costs exceeding the obligation described above shall be borne by the Commissioning Party. If products are provided for processing, repair, etc., a warranty is only given for the soundness of the realization of the assigned processing.

Our liability does not apply:
a. If the faults are the result of improper use or causes other than faulty material or manufacture.
b. If the cause of the faults cannot be clearly demonstrated.
c. If all instructions given for the use of the products, including the guidelines as indicated in this instruction manual, have not been strictly and fully complied with.

The manufacturer's liability does not apply if the buyer, on their own initiative, makes changes to and/or repairs the delivered products or has them made/repaired.

4. Checking the delivery

Upon receipt, check that the scaffolding has been delivered complete and undamaged.

Immediately contact your supplier if you notice that any components of the scaffolding are damaged or that the delivery is incomplete.

5.Safety instructions

5.1 Pre-assembly check

Check that the assemblers are sufficiently qualified and check that the location where the tower is to be erected is safe and suitable.

Attention:

- The roof must be sufficiently load-bearing.
- Check whether the wind conditions are such that the scaffolding can be worked with.
- Check that all components are present at the workplace.
- Damaged, incorrect or non-original components should never be used.

5.2 Assembly

The assembly of the chimney scaffold is described in the assembly instructions and should be done by at least two people. Use the railings during assembly as well, temporarily mounted if necessary. A roof ladder must be used on either side of the scaffolding for construction and access.

The chimney scaffold must be set up level; check this with a spirit level.

The platforms must be secured by sliding the pawl of the blow-away protection under the rung. The frames must be secured against each other with locking pins.

The horizontal ledgers or railings must be attached to the uprights in such a way that the claw openings point outwards.

The working level must be equipped with: railings, knee railings and toe boards all around.

5.3 Raising components

Raising components for higher sections should be done by passing the components from platform to platform. A roof ladder must be used on either side of the scaffolding for construction and access.

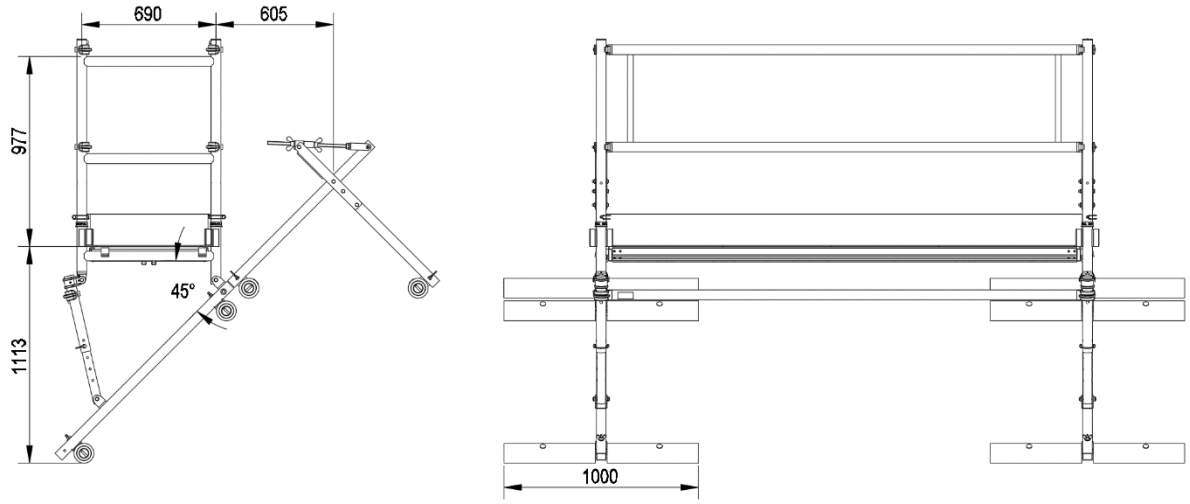
Do not attach hoisting equipment to the scaffold.

5.4 Stabilisers

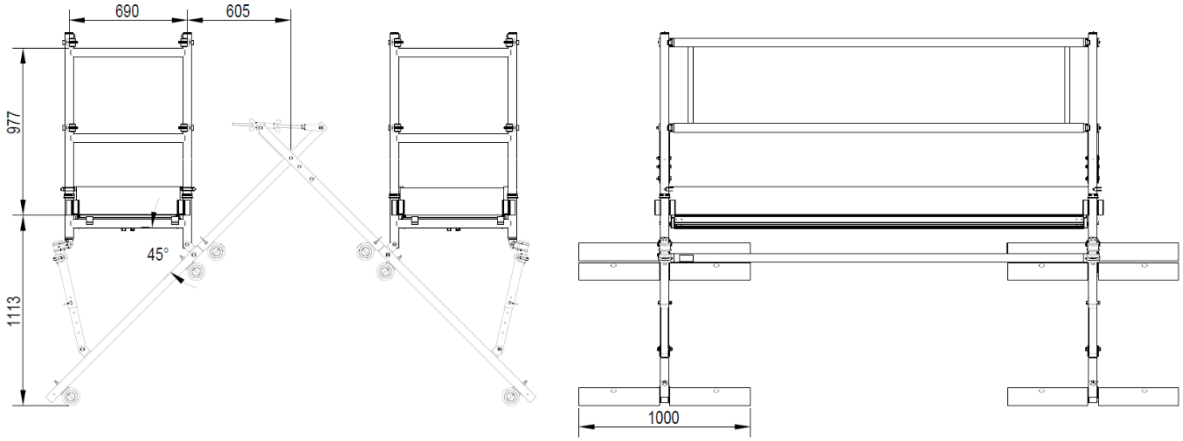
The extensions specified in the table should always be attached at the bottom of the scaffolding before stepping onto the scaffolding. These are essential for stability. One may always use additional extensions if required to extend the scaffolding, but these are optional and are therefore not listed in the Composition table.

6. Dimension drawing

6.1 Single chimney scaffold



6.2 Double chimney scaffold

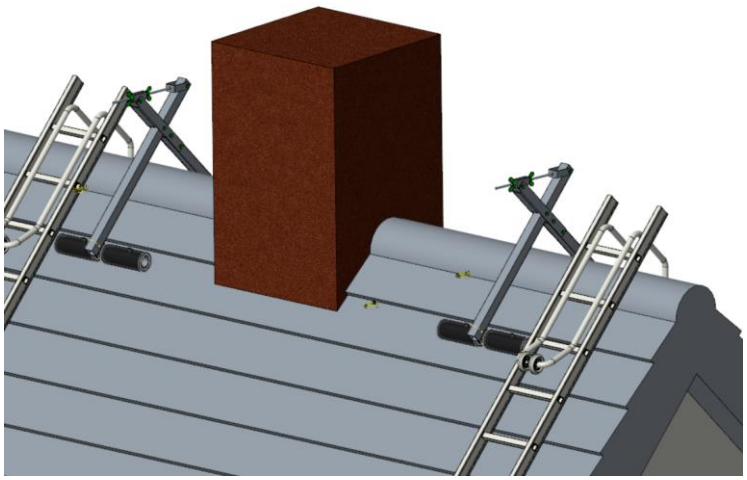


7.Assembly

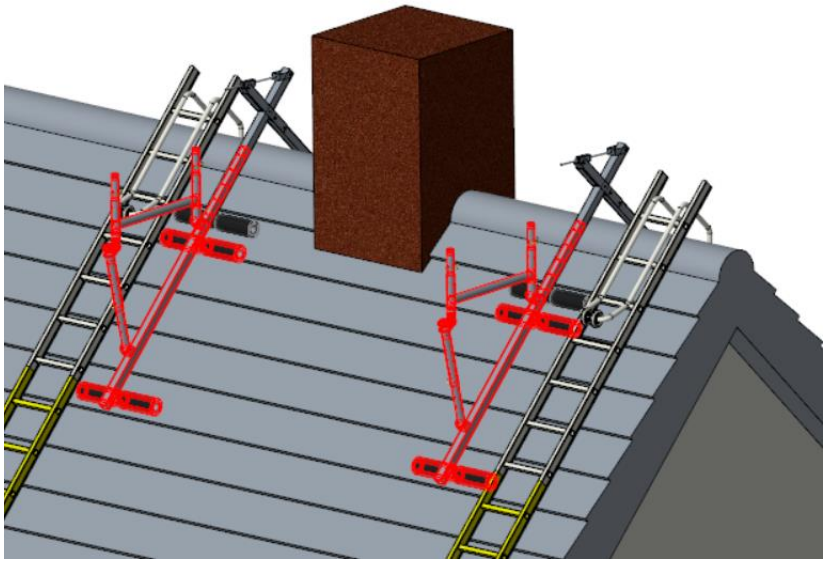
Check that all necessary components are present before starting assembly of the chimney scaffold. Assembly should take place on a stable workplace at the height of the roof-gutter. Use of a ridge ladder is mandatory during assembly from roof-gutter height. Take maximum measures to prevent danger of falling. It is recommended to mount the support rollers for the Chimney Access Ridge Stand (CARS Unit) and any extensions on the ground beforehand. This reduces the number of movements to raise materials.

7.1 Single chimney scaffold

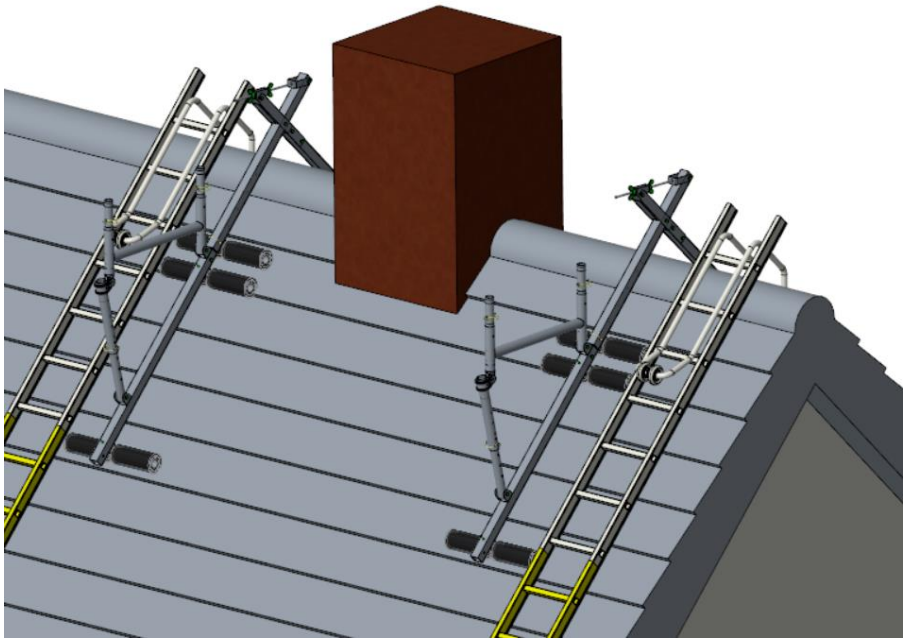
1. Roll the ridge ladder across the roof towards the ridge. Tilt the ladder once the hook has passed the ridge. Make sure that the distance between the ridge ladder and the chimney is sufficient to assemble the chimney scaffold. Use the ridge ladder to bring up the components of the chimney scaffold.



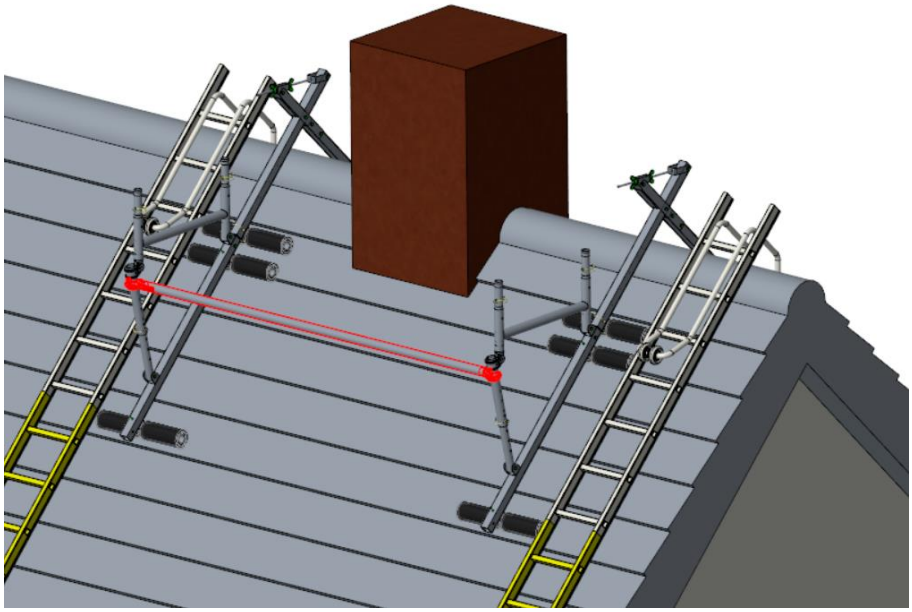
2. First, place the Chimney Access Ridge Stand (CARS Unit) on the ridge of the roof. Depending on the actual dimensions of the roof and the roof tiles used, it should be possible to support the support rollers on the second row of roof tiles. This is to avoid damage to the ridge tiles and the first row of roof tiles at all times.
   Adjust the Chimney Access Ridge Stand (CARS Unit) with the butterfly nut so that the Chimney Access Ridge Stand (CARS Unit) has the same angle as the roof.



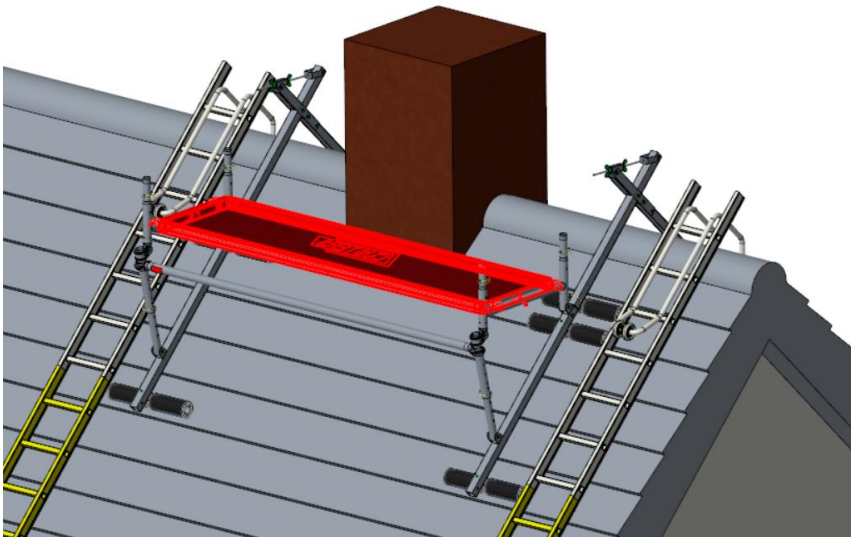
3. Place the base frame on the roof and slide the adjustment tube of the base frame into the tube of the Chimney Access Ridge Stand (CARS Unit). Secure the base frame to the Chimney Access Ridge Stand (CARS Unit) in the desired position with a locking clip in the appropriate hole.
4. Adjust the base frame to the correct roof angle. To do so, place the locking pin on the back of the base frame in the required hole. Use a spirit level, if necessary.



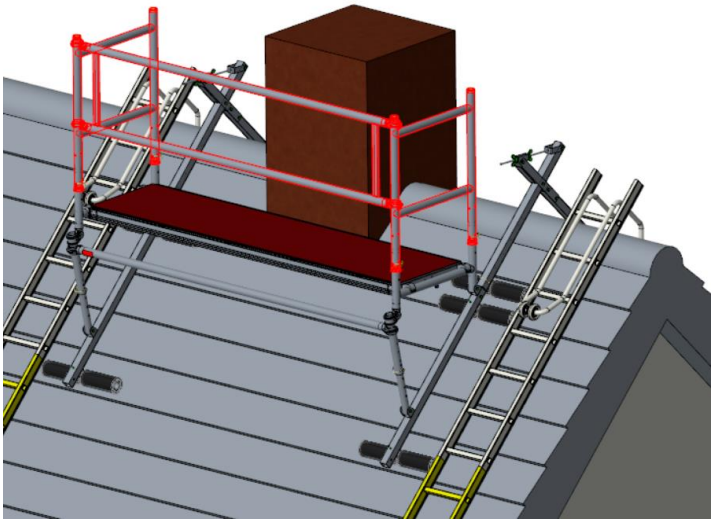
5. Now repeat steps 1 - 4 on the other side of the chimney to install the second girder.

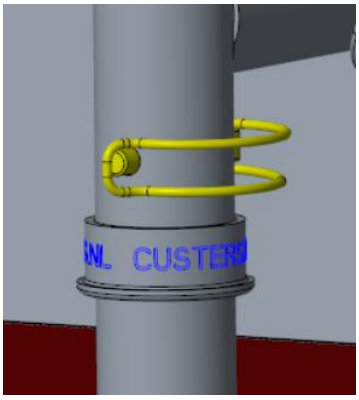


6. Place a horizontal ledger of the same length as the desired platform on the back of the two base frames above the ridges. This will adjust the distance between the two girders to the correct length.

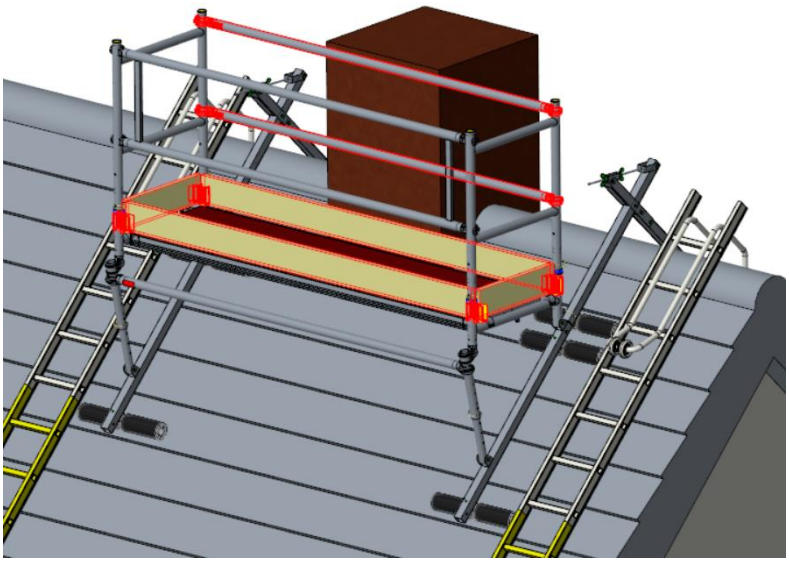


7. Place the platform on the two horizontal rungs of the two base frames. Slide the wind protection locking pins under the load-bearing rungs.





8. Place the two end railings on either side of the platform. Secure these to the base frames with locking clips.
9. Place the double railing on the “non-chimney” side of the platform. Make sure that the openings of the claws point outwards.



10. Place the two horizontal ledgers on the chimney side at both knee and hip height. Make sure that the openings of the claws point outwards.
11. Place the toe board brackets and toe boards so that the platform becomes suitable working platform.
12. The chimney scaffold is ready for use. Access the platform on the chimney side by

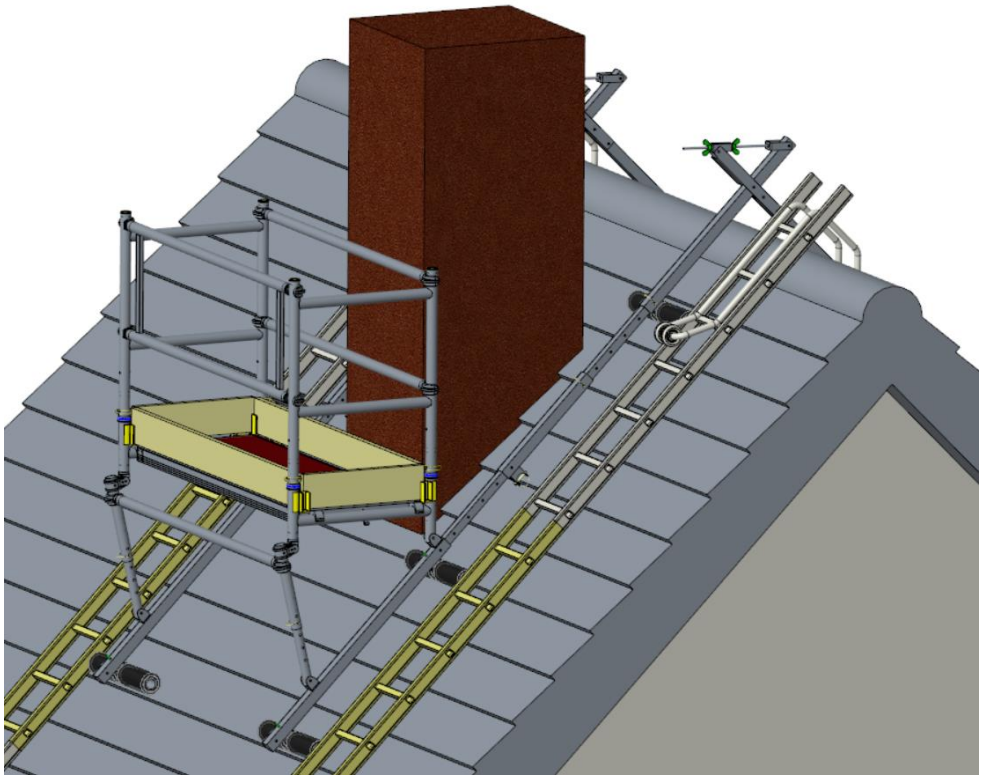
temporarily detaching 1 or more horizontal ledgers of the railings on one side, so that you can step onto the platform.

7.2 Double chimney scaffold

It is possible to place a platform on the other side of the chimney as well.
To do this, repeat steps 3 - 11 of the instruction manual. Attention: The total maximum load on the scaffolding remains 200 kg.

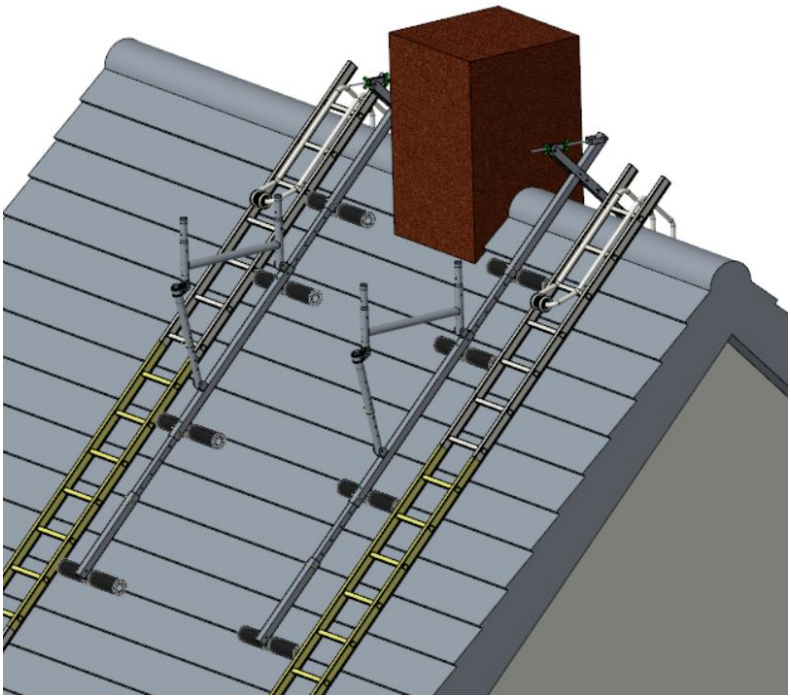
7.3 Extending the chimney scaffold

If the chimney (or dormer) is not located in the middle of the roof (i.e. on the ridge), it is possible to extend the girder of the scaffolding. Use the extension to do this. It is advisable to mount the support rollers for the extension on the ground beforehand. This reduces the number of movements to raise materials. The extension can be set to the correct length by inserting the locking pin in the appropriate hole. The extensions must be placed between the Chimney Access Ridge Stand (CARS Unit) and the base frame. It is also possible to use multiple extensions, if required.

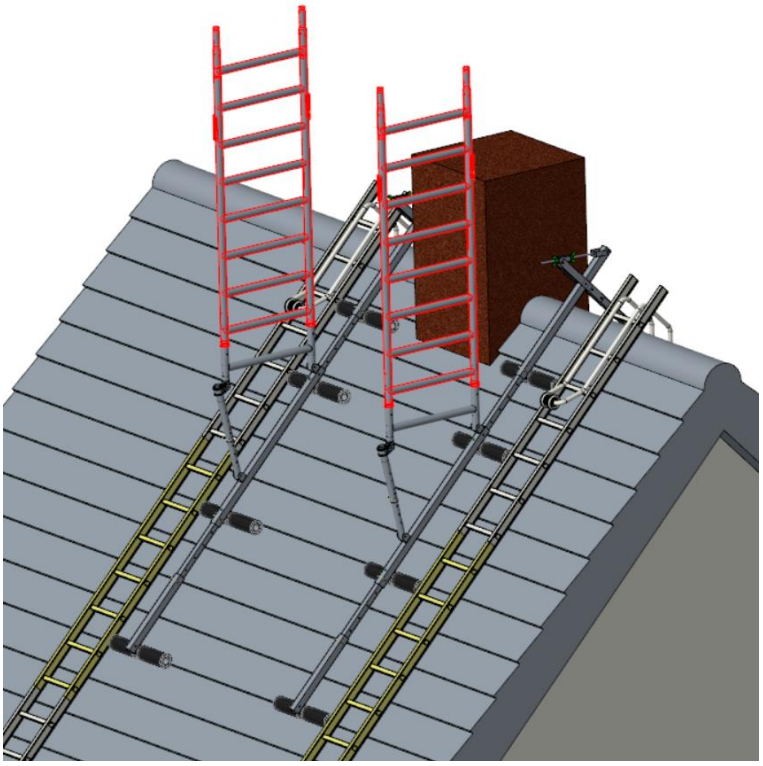


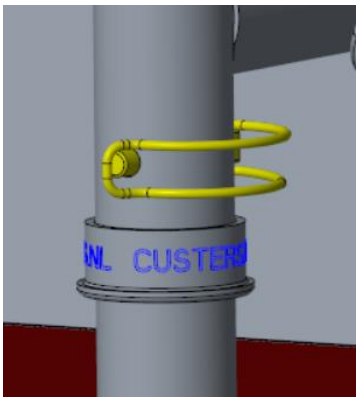
7.4 Raising the platform by 1 metre

The start of the assembly of this variant is equal to the normal variant of chimney scaffold. First carry out steps 1 - 6 of Section 7.1. Then continue with the steps below:

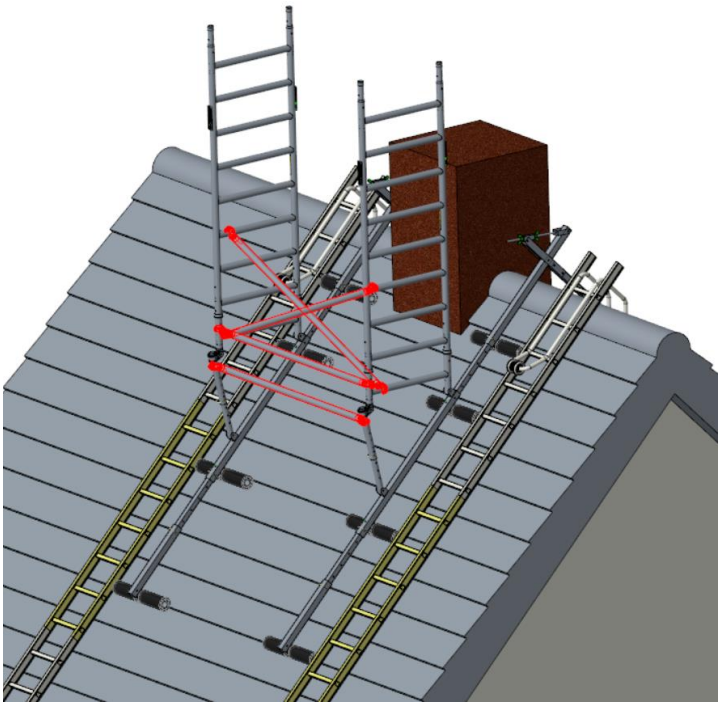


7. Place the extensions at the bottom of the base frames. Make sure that they are adjusted to the maximum length. Secure them at the correct position with a locking pin.



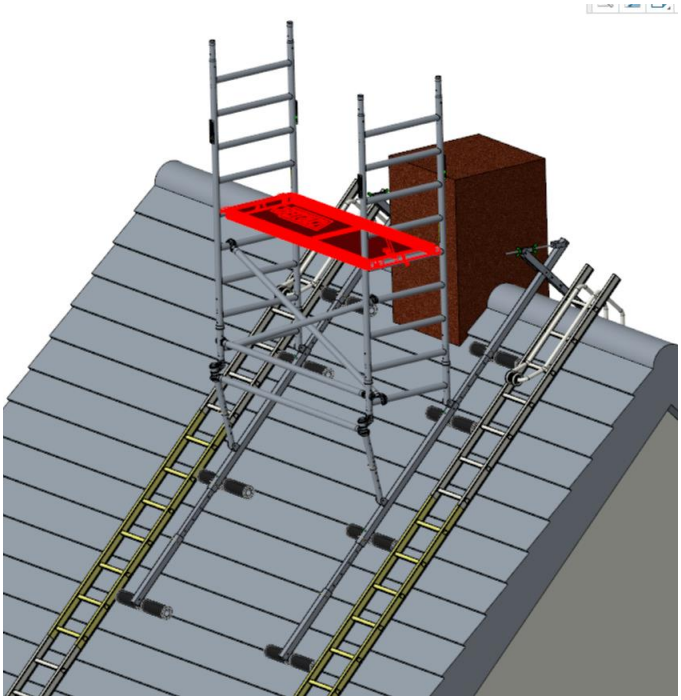


8. Place the 8-stage frames on the coupling pins of the base frames. Secure these with locking pins.

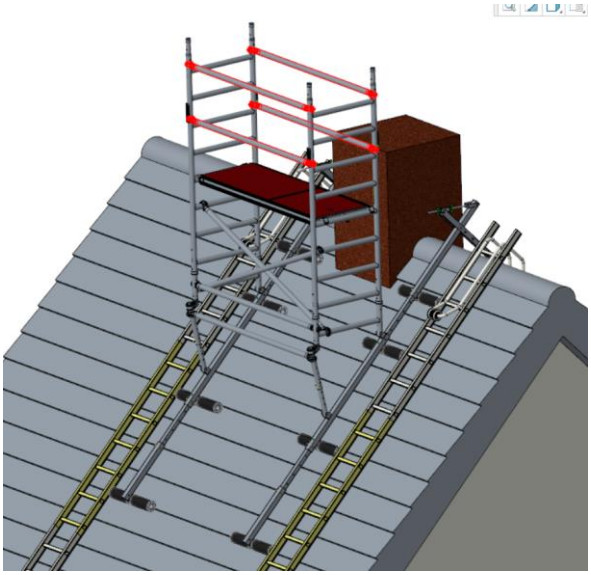


9. Place a horizontal just above the rung of the base frame. Make sure that the openings of the claws point outwards.

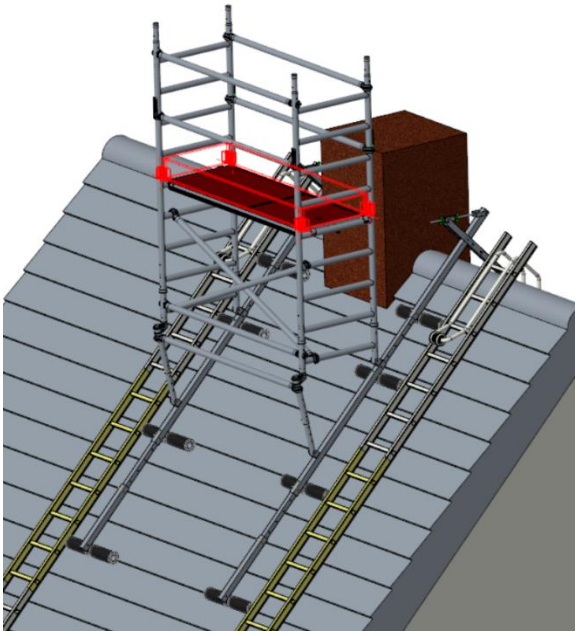
10. Place the two cross braces on the rung of the base frame and the 3rd rung of the 8-stage frames.



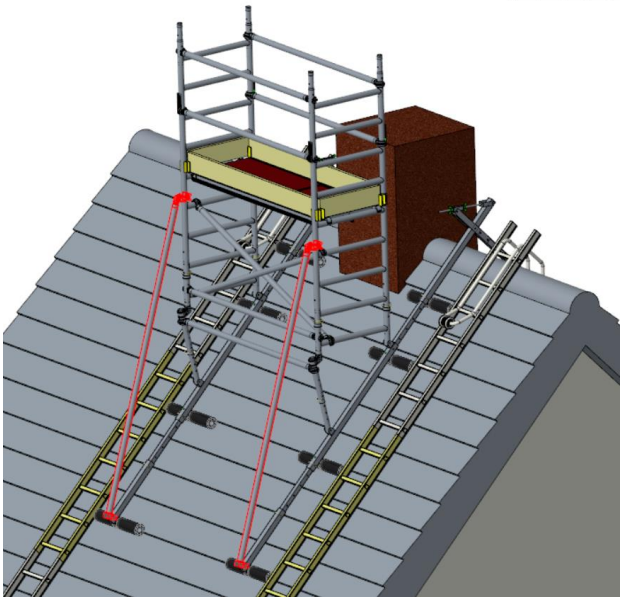
11. Place the platform on the 4th rung of the 8-stage frames. Slide the wind protection locking pins under the load-bearing rungs.



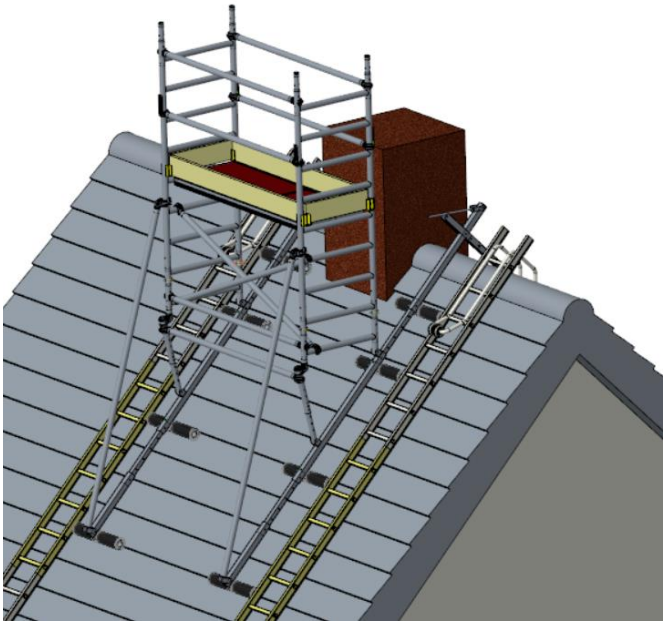
12. Place the other 4 horizontal ledgers on each side of the platform at knee and hip height. Make sure that the openings of the claws point outwards.



13. Place the toe board brackets and toe boards, creating a complete work platform.



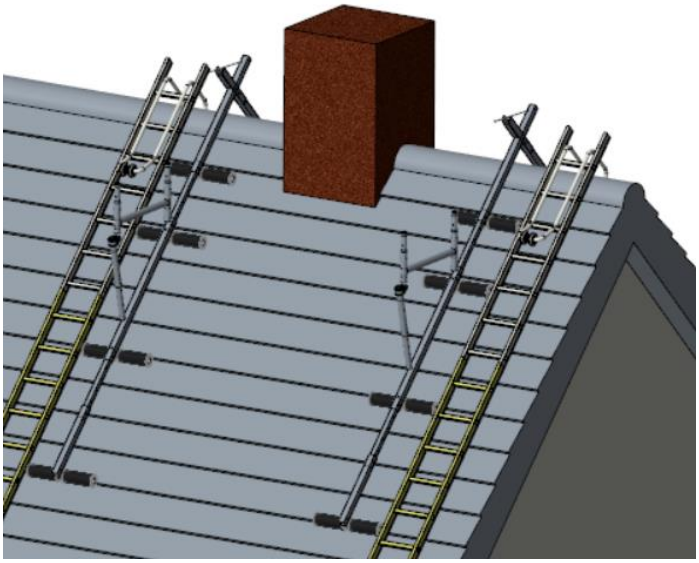
14. Finally, place the two girders between the lower eye of the two extensions and the two 8-stage frames. This provides additional stability while using the scaffolding. Should the coupling of the girder end up exactly at a rung, adjust the extension so that this problem no longer occurs.



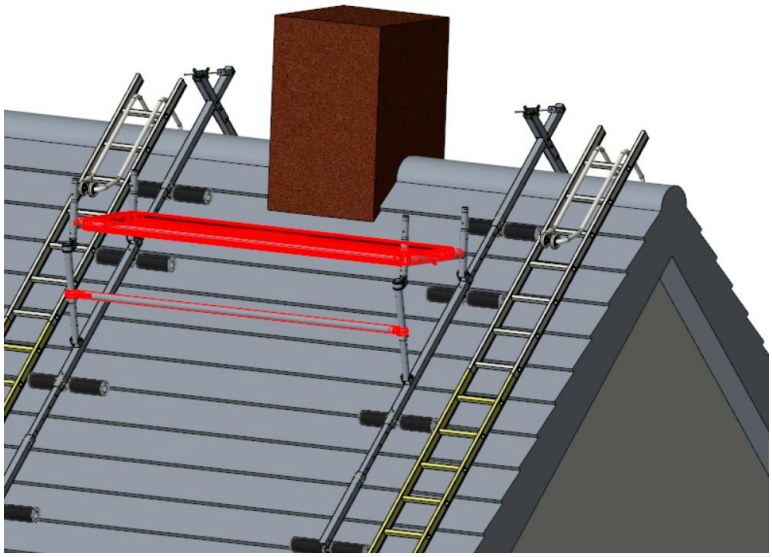
15. The chimney scaffold is ready for use. Access the platform by stepping under the platform on the chimney side and climbing up via the inside of the scaffolding. The platform can be entered through the hatch in the platform.

7.5 Raising the platform by 2 metres

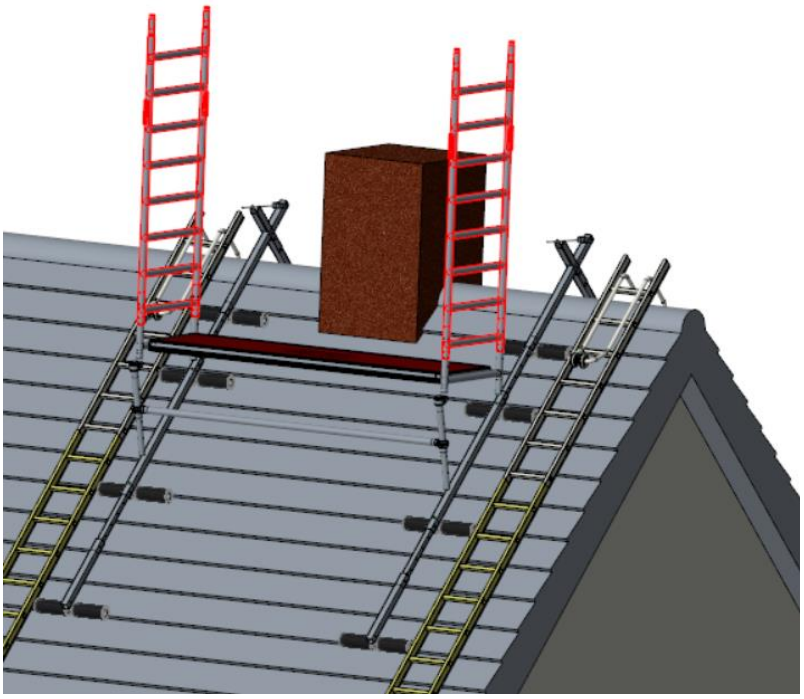
The beginning of the assembly of this variant is equal to the normal variant of chimney scaffold. First carry out steps 1 - 6 of Section 7.1. Then continue with the steps below:

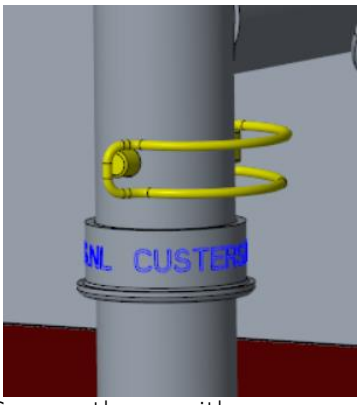


7. Place the extensions on the bottom of the base frames. Make sure that they are adjusted to the maximum length. Secure them at the correct position with a locking pin.

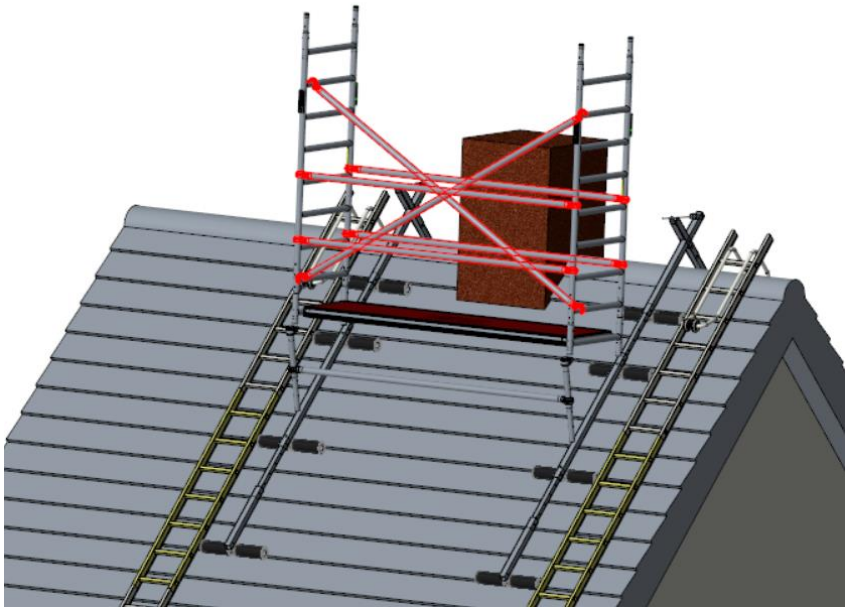


8. Place the platform without hatch onto the two horizontal rungs of the base frames. Slide the wind protection locking pins under the load-bearing rungs.

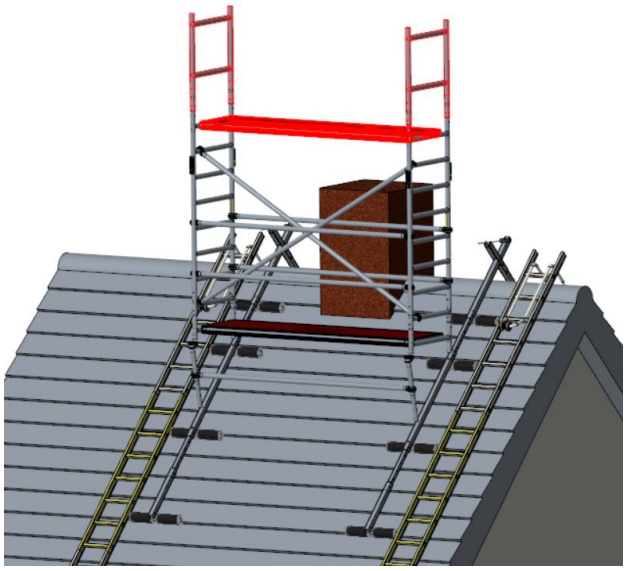




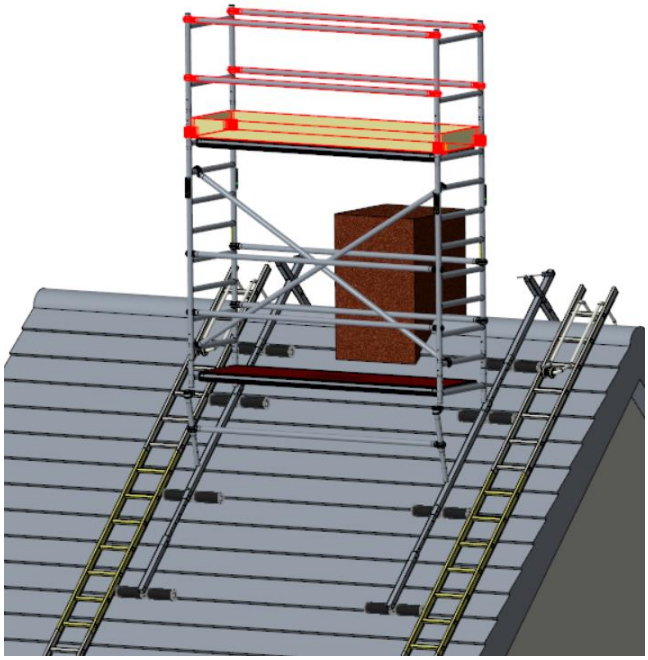
9. Place the 8-stage frames on the coupling pins of the base frames. Secure these with locking pins.



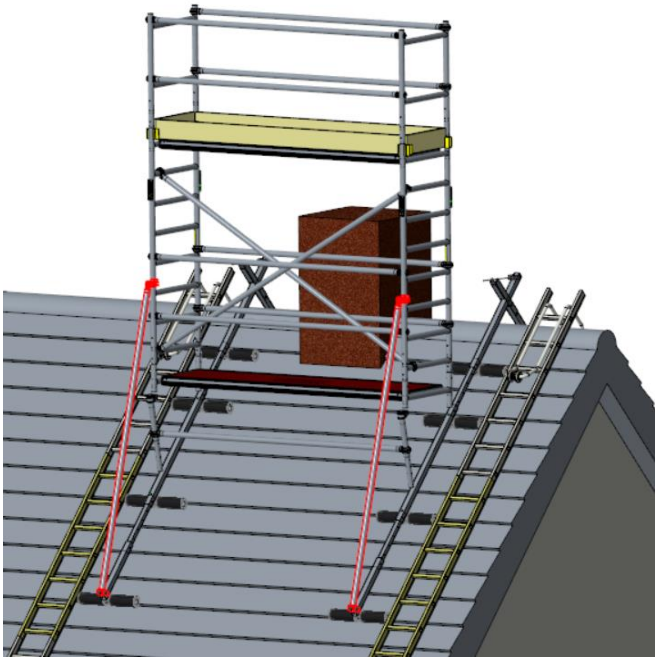
10. Place the two diagonal ledgers on the 1st and 7th rung of the two 8-stage frames.
11. Place a horizontal ledger on each side of the platform at knee and hip height. Make sure that the openings of the claws point outwards.



12. Place the platform with hatch on the top two rungs of the 8-stage frames. Slide the wind protection locking pins under the load-bearing rungs.
13. Place the two end railings on either side of the platform. Secure these with locking clips to the top of the 8-stage frames.



14. Place a horizontal ledger as a railing on each side of the platform at knee and hip height. Make sure that the openings of the claws point outwards.
15. Place the toe board brackets and toe boards, creating a complete work platform.



16. Finally, place the two girders between the lower eye of the two extensions and the two 8-stage frames. This provides additional stability while using the scaffolding. Should the coupling of the girder end up exactly at a rung, adjust the extension so that this problem no longer occurs.

17. The chimney scaffold is ready for use. Access the platform by stepping on the first platform on the chimney side and climbing up via the inside of the scaffolding. The upper platform can be entered through the hatch in the platform.

8.Use

Prior to each use, you should check whether:

- The base of the construction is sound and set to the correct slope angle of the roof.
- The overall construction is correct and complete.
- There are changes in circumstances that may affect the safe use of the scaffolding.

It is not permitted to use the scaffold as a suspended scaffold.

No bridges may be made between scaffoldings, unless using specifically calculated applications.

The maximum workload is 200 kg/m^2 (scaffolding class 3); only 1 maximum load per scaffold is allowed. The total load of the entire scaffolding is 200 kg.

The scaffold may only be climbed from the inside, via the rungs.

Do not place any crates, stepladders or other devices on the work floor to gain height.

It is prohibited to work on the scaffolding if the wind force is greater than 6 Beaufort (large branches move, umbrellas collapse, the wind speed is 11 - 14 m/s = ± 45 km/h).

In case of an expected wind force greater than 6 Beaufort, the scaffolding must either be disassembled, moved to a wind-free zone, or anchored. This should also be done if the scaffolding is not in use.

Beware of apertures in buildings, uncovered buildings and corners of buildings that may cause additional wind loads.

Take care when applying horizontal forces (e.g. drilling), which push the scaffolding structure away; the maximum horizontal force is 300N.

Horizontal ledgers, railings, knee railings and diagonal ledgers may not be used as steps.

Attaching wind-catching surfaces such as advertising signs or tarpaulins to free-standing towers is prohibited. The scaffolding must not be exposed to aggressive liquids or gases.

9. Maintenance

All components, especially moving parts and welds, must be checked regularly, at least once a year, for wear and tear. Missing and defective components must be replaced.

Aluminium components may no longer be used in one or more of the following cases:

- If round tubes have 1 or more dull dents with a depth of more than 3.0 mm.
- If round tubes have 1 or more dents directly next to a welded joint, regardless of the dent's depth and shape.
- If square/rectangular tubes have 1 or more dull dents with a depth of more than 2.0 mm.
- If cylinders or tubes have 1 or more sharp dents or cracks, irrespective of the length/depth and location of the dent(s)/crack(s).

Repairs to scaffolding material should always be done in consultation with the manufacturer.

10. Composition tables

10.1 Single chimney scaffold (length 1.8m, 2.5m and 3.0m)

			Platform height [m]				+0	+1	+2
Description	Article number	Kg							
Chimney Access Ridge Stand (CARS Unit)	9501.913.005	5.9					2	2	2
Base frame	9501.913.010	9.8					2	2	2
Extension	9501.913.015	1.9					2	2	2
Girder 2640	9501.913.020	3.4					0	2	2
End railing	9501.200.122	3.0					2	0	2
Support roller	9501.905.030	0.9					4	6	6
8-stage frame 690	9501.200.012	8.9					0	2	2
Toe board bracket	9501.800.087	0.3					4	4	4
Toe board 690	9501.200.092	1.9					2	2	2
Locking pin	9501.410.162	0.1					4	4	8
	Length 1.8m		Length 2.5m		Length 3.0m				
Description	Article number	Kg	Article number	Kg	Article number	Kg			
Handy platform wood Handy platform plastic	9501.310.010 9501.311.010	14.7 11.9	9501.310.020 9501.311.020	20.4 15.3	9501.310.030 9501.311.030	25.3 17.7	1	0	1
Handy platform with wooden hatch Handy platform with synthetic hatch	9501.310.015 9501.311.015	14.7 11.9	9501.310.025 9501.311.025	20.4 15.3	9501.310.035 9501.311.035	25.3 17.7	0	1	1
Double railing	9501.800.058	4.8	9501.800.030	5.9	9501.800.050	7.0	1	0	0
Horizontal ledger	9501.200.058	2.0	9501.200.030	2.7	9501.200.040	3.2	3	6	9
Diagonal (rung 1-4)	9501.200.041	2.3	9501.200.059	2.9	9501.902.041	3.4	0	2	0
Diagonal (rung 1-7)	9501.200.043	2.5	9501.200.056	3.1	9501.902.056	3.6	0	0	2
Toe board longitudinal side	9501.200.086	2.5	9501.200.080	4.9	9501.902.080	6.2	2	2	2

Roof ladder can be ordered separately (9509913160)

10.2 Double chimney scaffold (length 1.8m, 2.5m and 3.0m)

							Platform height [m]	+0	+1	+2
Description	Article number	Kg								
Chimney Access Ridge Stand (CARS Unit)	9501.913.005	5.9						2	2	2
Base frame	9501.913.010	9.8						4	4	4
Extension	9501.913.015	1.9						4	4	4
Girder 2640	9501.913.020	3.4						0	2	2
End railing	9501.200.122	3.0						4	0	4
Support roller	9501.905.030	0.9						4	8	8
8-stage frame 690	9501.200.012	8.9						0	4	4
Toe board bracket	9501.800.087	0.3						8	8	8
Toe board 690	9501.200.092	1.9						4	4	4
Locking pin	9501.410.162	0.1						8	8	16
	Length 1.8m		Length 2.5m		Length 3.0m					
Description	Article number	Kg	Article number	Kg	Article number	Kg				
Handy platform wood Handy platform plastic	9501.310.010 9501.311.010	14.7 11.9	9501.310.020 9501.311.020	20.4 15.3	9501.310.030 9501.311.030	25.3 17.7		2	0	2
Handy platform with wooden hatch Handy platform with synthetic hatch	9501.310.015 9501.311.015	14.7 11.9	9501.310.025 9501.311.025	20.4 15.3	9501.310.035 9501.311.035	25.3 17.7		0	2	2
Double railing	9501.800.058	4.8	9501.800.030	5.9	9501.800.050	7.0		2	0	0
Horizontal ledger	9501.200.058	2.0	9501.200.030	2.7	9501.200.040	3.2		6	12	18
Diagonal (rung 1-4)	9501.200.041	2.3	9501.200.059	2.9	9501.902.041	3.4		0	4	0
Diagonal (rung 1-7)	9501.200.043	2.5	9501.200.056	3.1	9501.902.056	3.6		0	0	4
Toe board longitudinal side	9501.200.086	2.5	9501.200.080	4.9	9501.902.080	6.2		4	4	4

Roof ladder can be ordered separately (9509913160)

10.3 Single chimney scaffold (length 4.0m and 5.0m)

			Platform length	
Description	Article number	Kg	4m	5m
Chimney Access Ridge Stand (CARS Unit)	9501.913.005	5.9	2	2
Base frame	9501.913.010	9.8	2	2
End railing	9501.200.122	3.0	2	2
Support roller	9501.905.030	0.9	4	4
Locking pin	9501.410.162	0.1	4	4
Work floor 4m	9502.310.040	32.3	1	0
Work floor 5m	9502.310.050	40.5	0	1
Railing upright	9501.903.060	1.4	2	2
Horizontal ledger 2m	9502.200.200	2.4	8	0
Horizontal ledger 2.5m	9501.200.030	2.8	0	8

10.4 Double chimney scaffold (length 4.0m and 5.0m)

			Platform length	
Description	Article number	Kg	4m	5m
Chimney Access Ridge Stand (CARS Unit)	9501.913.005	5.9	2	2
Base frame	9501.913.010	9.8	4	4
End railing	9501.200.122	3.0	4	4
Support roller	9501.905.030	0.9	4	4
Locking pin	9501.410.162	0.1	8	8
Work floor 4m	9502.310.040	32.3	2	0
Work floor 5m	9502.310.050	40.5	0	2
Railing upright	9501.903.060	1.4	4	4
Horizontally 2m	9502.200.200	2.4	16	0
Horizontally 2.5m	9501.200.030	2.8	0	16

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