Frigerio S.p.A. CARPENTERIE

Instructions and rules of use of mobile scaffolding on wheels

ALUPONT B/74

Mandatory mobile scaffolding assembly, use, handling and dismantling instructions

IMPORTANT

This booklet must always accompany the scaffolding for any submission to the pertinent bodies.

ALUPONT B/74 modular mobile scaffolding

ALUPONT B74 - Base dimensions: **mt. 0,74 x 1,97 - 0,74 x 2,55 - 0,74 x 3,10**

NOMINAL PLATFORM CAPACITY

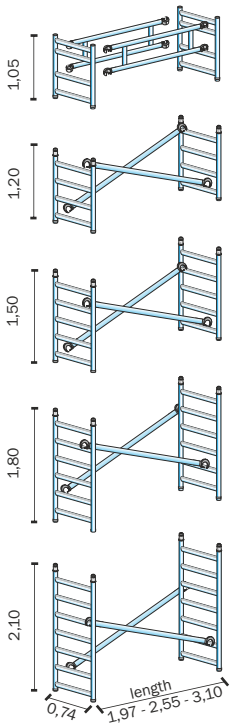
ALUPONT B74 for lengths mt. 1,97 - 2,55:	200 kg/mq (classe 3)
maximum capacity evenly distributed mt. 1,97:	235 kg.
maximum capacity evenly distributed mt. 2,55:	300 kg.
ALUPONT B74 for lengths mt. 3,10:	150 kg/mq (classe 2)
maximum capacity evenly distributed mt. 3,10:	275 kg.

MAXIMUM HEIGHT AT WALK-OVER FLOOR

ALP B74 - BS Version:	up to mt. 8,52 mandatory anchoring as per DL.81
ALP B74 - BHD Version:	up to mt. 7,92 not anchored outdoor, as per UNI EN 1004
ALP B74 - BHM Version:	up to mt. 8,52 not anchored indoor, as per UNI EN 1004
ALP B74 - BHDA Version:	up to mt. 6,67 not anchored indoor and outdoor, as per UNI EN 1004 up to mt. 8,77 not anchored indoor, as per UNI EN 1004
ALP B74 - QUICK Version:	up to mt. 6,01 not anchored indoor and outdoor, as per UNI EN 1004 up to mt. 8,11 not anchored indoor, as per UNI EN 1004
ALP B74 - LIM Version:	up to mt. 7,60 not anchored indoor and outdoor, as per UNI EN 1004

Single base and upper section compositions

Upper sections B74



ROLL-BAR SECTION
Art. SPB5

Nr. 2 roll-bars uprights B5
Nr. 2 roll-bar frames HD20-25-30

UPPER SECTION
Art. SSB4

Nr. 2 vertical uprights B4
Nr. 2 diagonal braces D20-25-30

UPPER SECTION
Art. SSB3

Nr. 2 vertical uprights B3
Nr. 2 diagonal braces D20-25-30

UPPER SECTION
Art. SSB2

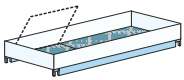
Nr. 2 vertical uprights B2
Nr. 2 diagonal braces D20-25-30

UPPER SECTION
Art. SSB1

Nr. 2 vertical uprights B1
Nr. 2 diagonal braces D20-25-30

Work platform B74

The work table can be placed every 30 cm in height (every rung)

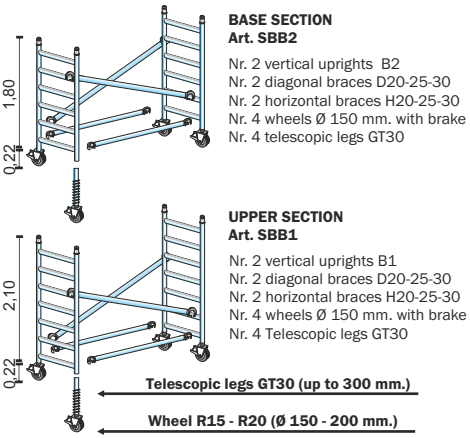


WORK TABLE B74 complete
Art. PB20-25-30 +
Art. TB20-25-30

Nr. 1 complete toeboard
Nr. 1 work table with trapdoor

Standard base sections B74

The standard base sections use uprights B1 and B2. Please note: all upper sections can be used as base sections if equipped with:
No. 4 wheels with telescopic legs:
No. 2 diagonal braces
No. 2 horizontal braces



BASE SECTION
Art. SBB2

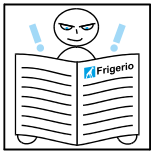
Nr. 2 vertical uprights B2
Nr. 2 diagonal braces D20-25-30
Nr. 2 horizontal braces H20-25-30
Nr. 4 wheels Ø 150 mm. with brake
Nr. 4 telescopic legs GT30

UPPER SECTION
Art. SBB1

Nr. 2 vertical uprights B1
Nr. 2 diagonal braces D20-25-30
Nr. 2 horizontal braces H20-25-30
Nr. 4 wheels Ø 150 mm. with brake
Nr. 4 Telescopic legs GT30

ALUPONT B74 scaffolding instructions for use

WARNING: Mobile work towers can only be assembled and dismantled by people who are familiar with the assembly and use instructions, and under the control of a supervisor.



Preliminaries

N.B. The equipment must undergo an annual inspection and the register at the back of this booklet must be completed.

Before starting the assembly of the scaffolding, it is best to check the condition of the scaffold itself, namely the integrity and the perfect functionality of the composition elements. In particular, check that:

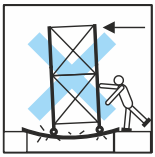
- wheels, original and suitable for use, are not damaged, that they turn and that the brakes are working.
- The telescopic legs are not folded and are free of bends and dents on the threads.
- All frames and tubes are integral and without dents; that the work table frame is perfect and wooden panels well secured.
- The anti-release safety latches of the lock hands of the braces and the upright wrap-around clamps are intact and in good working order.
- If necessary, clean and/or lubricate where required.

Damaged components should not be used.

Make sure all scaffolding elements are included, matching the component table; replacing missing elements with non-original FRIGERIO parts is prohibited.
Make sure that scaffold assembly is not hampered by structures in the air, such as gutters, balconies, suspended cables, etc.

Work cannot be performed less than seven metres from power lines.
(Also consider any cable oscillations due to wind).

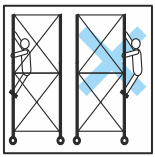
Only people in good mental and physical condition can access scaffolds.



Make sure the surface where the scaffold is assembled is levelled and stable. Use suitably wide boards to prevent structure collapse.

Always stay in the tower.

The operator must climb up and down inside the scaffold, using the non-slip rungs of the vertical uprights, or any cable ladders, available on request. After accessing work floors, ensure the trapdoor is closed. Always operate on a work floor, protected by guardrail (alternatively, ensure safety using a suitable anti-fall safety device (EC standard PPE).

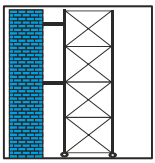


Lifting elements.

To lift the elements, we recommend, where the height does not allow for the direct manual passage of the various elements from one operator to another, lifting them with a rope.
This operation must take place exclusively within the scaffold or the extended base (area within the stabiliser brackets).
No one should stand under suspended loads.
(see R.P.F. page 22)

Anchor the scaffold.

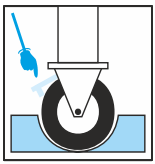
When possible: adopt one of the anchoring systems indicated on page 5.
Anchoring is mandatory for configurations that do not met UNI-EN-1004 European Regulations.



IMPORTANT:

Brake the wheels.

It is always very important during assembly, scaffold use and after each move.



Base extenders

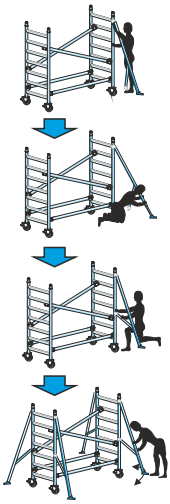
Correct bracket assembly is essential for the anti-tip safety!

- ✓ The base extenders are mounted according to the height and the environmental conditions respecting that indicated in the table on page 5
- ✓ When working in contact with a wall, only the brackets in contact can be mounted parallel to the wall.
- ✓ If the ground is not paved, it should not be too soft or wet and, to prevent sinking, the use of wooden boards positioned under the wheels and under bracket tips is necessary.
- ✓ Before climbing on scaffolding, during installation, use and after each movement, always check that the brackets are correctly and securely positioned.
- ✓ When moving the scaffolding do not remove the stabiliser brackets, because they can avoid unexpected tipping. Brackets can be easily raised from the ground (a few millimetres) lowering the lower clamp.

Assembling the base extenders

ST0 and **ST1** extenders are fixed on the base vertical uprights while **ST2** and **ST3** extenders also act on the upper uprights (therefore you must also complete the 1st upper section before installing the latter):

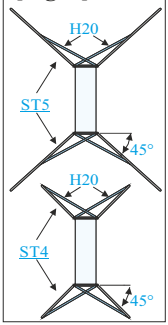
1) Adjust the extension of the telescopic leg and insert the lock pin (for telescopic extenders).
2) To avoid slippage in the vertical direction, the top bracket clamp must be mounted, if possible, just below the most convenient rung, trying to maintain a 45° angle with respect to the ground.
3) The lower clamp must be fixed accordingly, accompanying the lower arm along the vertical upright to pull the bracket towards the structure so that the pivoting leg is well secured to the ground.
4) Orient the bracket 45° with respect to the base so as to cover the largest possible surface area.
5) Stringere con la sola forza manuale entrambi i morsetti.



The extenders with wheels **ST4**, **ST5** and **ST6** are secured to both the base vertical uprights and upper ones (therefore you must also complete the 1st upper section):

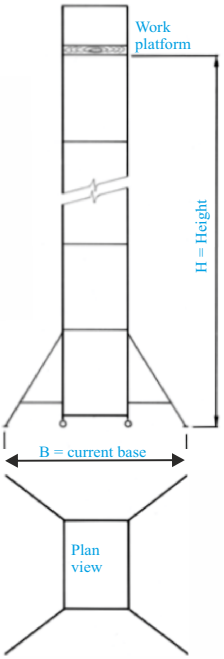
1) First insert the wheel into the telescopic leg and then insert the telescopic leg in the ST5 frame external vertical tube.
2) Secure the two ST5 frame clamps to the base shoulder vertical tube.
3) Adjust the height of the telescopic leg using the adjusting knob.
4) The upper clamp must be fixed accordingly, accompanying the arm along the vertical upright.

[Fig. 3]:



5) Orient the bracket 45° with respect to the base so as to cover the largest possible surface area [Fig. 3]
6) Install the locking extenders beams (H20) by hooking the latches on the vertical tubes in crossed position. [Fig.3]
7) Only tighten all three clamps manually. Do not use tools.

[Fig. 4]:



GENERAL RULE in INDOOR environments

$B \leq 1/3\ H$

The maximum height of the work platform should not be greater than 3 times the minimum of the effective base width, inclusive of base extenders.

Anchorage and anti-tipping systems

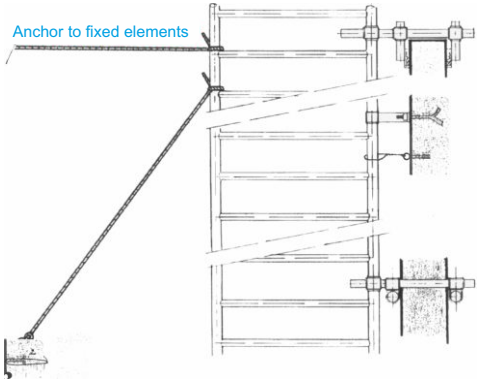
Whenever possible, movable towers used outdoors must be secured to the building or other fixed structure.

In the case of work on a façade, scaffolding has to be anchored at a maximum vertical distance of 4 metres.

In the case of wind force 6 (12 mt./s.), at the beginning and the end of work shifts, the scaffolding has to be pushed into a space protected from the wind, disassembled or anchored to prevent it from tipping over.

Anchor the scaffolding to the perimeter uprights and provide for a max force of kg. 60 to each individual anchor.

Only qualified personnel should perform anchoring.



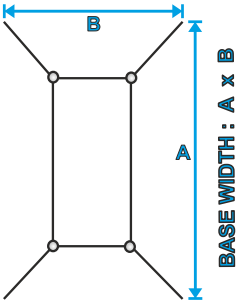
Anchoring by retaining cables (or guying), which must always be controlled in tension and in the nodes, must be supported by calculation report carried out by a qualified professional.

APPLICATION OF STABILISER BRACKETS INDOORS OR OUTDOORS

The correct selection of the stabilising brackets model depends on the floor height to be reached and the presence or absence of destabilising airflows, thus the extender model may change, depending on whether you work outdoors or indoors.
The following table describes, for each configuration, the minimum base width that must be included by the stabilising brackets, depending on the height to the floor to be reached.
This table refers to all configurations that allow non-anchored use or in accordance with European Regulation UNI EN 1004.

N.B. - In the case in which these conditions cannot be met, the scaffold must be ballasted according to static calculations for each user configuration. Testing available upon request.

Check that the base area meets the minimum dimensions for A and B shown in the table alla under: «BASE WIDTH»



HEIGHT : platform heght.

OUTDOOR : in wind (max 12 mt/s).

INDOOR : indoor rooms and protected against air currents

CONFIGURATIONS ALUPONT B74 FOR NON-ANCHORED USE

SCAFFOLDING model	ENVIRONMENT indoor - outdoor	HEIGHT to floor MAX mt.	OUTRIGGER recomm	BASE WIDTH minimum to reach mt. A x mt. B	WORK TABLE minimum no.
BHD20 / BHM20 / BHDA / QUICK - 2 + LIM - 3	Outdoor	4,32	ST1	4,01 x 4,08	1
BHD20 / BHM20 / BHDA / QUICK - 2 + LIM - 3	Indoor	4,32	ST1	2,61 x 2,18	1
BHD25 / BHM25 / BHDA - 2 + LIM - 3	Outdoor	4,32	ST1	3,99 x 4,18	1
BHD25 / BHM25 / BHDA - 2 + LIM - 3	Indoor	4,32	ST1	2,70 x 2,08	1
BHD30 / BHM30 - 2 + LIM - 3	Outdoor	4,32	ST1	4,05 x 4,28	1
BHD30 / BHM30 - 2 + LIM - 3	Indoor	4,32	ST1	3,05 x 1,98	1
BHD20 / BHM20 / BHDA / QUICK - 3 + LIM - 4	Outdoor	6,42	ST1	4,18 x 5,43	2
BHD20 / BHM20 / BHDA / QUICK - 3 + LIM - 4	Indoor	6,42	ST1	2,91 x 2,58	2
BHD25 / BHM25 / BHDA - 3 + LIM - 4	Outdoor	6,42	ST1	4,70 x 5,84	2
BHD25 / BHM25 / BHDA - 3 + LIM - 4	Indoor	6,42	ST1	2,90 x 2,38	2
BHD30 / BHM30 - 3 + LIM - 4	Outdoor	6,42	ST1	4,55 x 5,68	2
BHD30 / BHM30 - 3 + LIM - 4	Indoor	6,42	ST1	3,05 x 2,28	2
BHD20 / BHM20 - HI + LIM - 5	Outdoor	7,92	ST1	5,61 x 6,58	2
BHD20 / BHM20 - HI + LIM - 5	Indoor	7,92	ST1	3,31 x 2,98	2
BHD25 / BHM25 - HI + LIM - 5	Outdoor	7,92	ST1	5,50 x 6,68	2
BHD25 / BHM25 - HI + LIM - 5	Indoor	7,92	ST1	3,20 x 2,78	2
BHD30 / BHM30 - HI + LIM - 5	Outdoor	7,92	ST1	5,25 x 6,88	2
BHD30 / BHM30 - HI + LIM - 5	Indoor	7,92	ST1	3,15 x 2,58	2
BHD20 / BHM20 / BHDA / QUICK - 4	Indoor	8,52	ST3	3,21 x 2,88	3
BHD25 / BHM25 - 4	Indoor	8,52	ST3	3,10 x 2,68	3
BHD30 / BHM30 - 4	Indoor	8,52	ST3	3,05 x 2,48	3

User configurations according to Italian regulation D.L.81

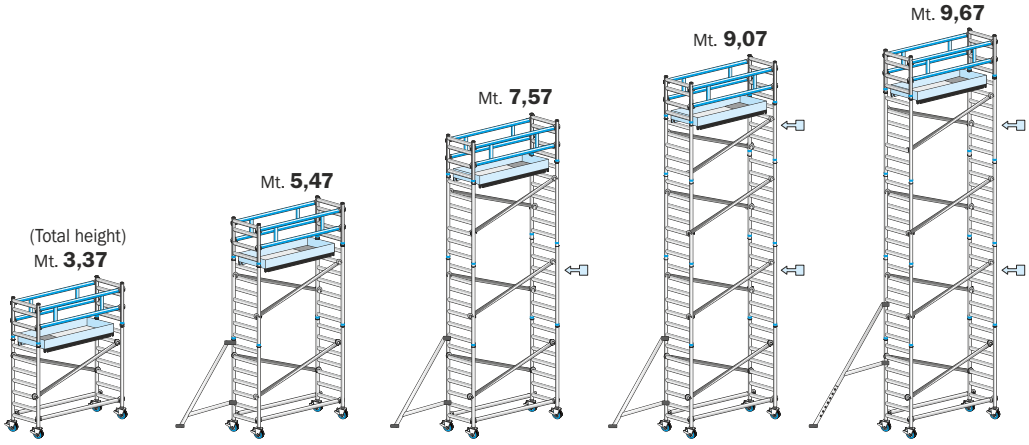
ALUPONT B/74 - BS Version

Dimensions mt. 0,74x1,97 - 0,74x2,55 - 0,74x3,10

CODE		BHD-1			BHD-2			BS-3			BS-HI			BS-4		
Working height	M	4,22			6,32			8,42			9,92			10,52		
Overall Height	M	3,37			5,47			7,57			9,07			9,67		
Work floor height	**M**	**2,22**			**4,32**			**6,42**			**7,92**			**8,52**		
Width	M	0,74			0,74			0,74			0,74			0,74		
Length	M	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10

CODE	DESCRIPTION	Weig														
ALP MV B1 NF	Vertical upright m 2,1	7,0	2	2	2	4	4	4	6	6	6	6	6	6	8	8	8
ALP MV B3 NF	Vertical upright m 1,5	5,0										2	2	2			
ALP MV B4 NF	Vertical upright m 1,2	3,9															
ALP MP B5 NF	End vertical upright	3,4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ALP H20	Horizontal brace m 2,0	1,8	2			2			2			2			2		
ALP H25	Horizontal brace m 2,5	2,2		2			2			2			2			2	
ALP H30	Horizontal brace m 3,0	2,5			2			2			2			2			2
ALP D20	Diagonal brace m 2,0	1,9	2			4			6			8			8		
ALP D25	Diagonal brace m 2,5	2,3		2			4			6			8			8	
ALP D30	Diagonal brace m 3,0	2,6			2			4			6			8			8
ALP HD20	Guardrail frame m 2,0	4,2	2			2			2			2			2		
ALP HD25	Guardrail frame m 2,5	5,1		2			2			2			2			2	
ALP HD30	Guardrail frame m 3,0	5,8			2			2			2			2			2
ALP GT30	Telescopic leg	1,6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP R15	Wheel Ø 150	3,2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP PB20	Trapdoor work platform m 2,0	13,3	1			1			1			1			1		
ALP PB25	Trapdoor work platform m 2,5	17,4		1			1			1			1			1	
ALP PB30	Trapdoor work platform m 3,0	21,8			1			1			1			1			1
ALP TB20	Toeboard m 2,0	6,5	1			1			1			1			1		
ALP TB25	Toeboard m 2,5	8,0		1			1			1			1			1	
ALP TB30	Toeboard m 3,0	9,0			1			1			1			1			1
ALP ST1	Outrigger	4,9				4	4	4	4	4	4	4	4	4			
ALP ST3	Telescopic outrigger	5,7													4	4	4
TOTAL WEIGHT		**KG.**	**73**	**82**	**90**	**109**	**119**	**128**	**127**	**138**	**147**	**139**	**150**	**159**	**159**	**170**	**180**

N.B: The telescopic leg allows the scaffolding to be levelled by means of a millimetric screw adjustment up to 30 cm.



WITHOUT ANCHORING - UNI EN 1004 compliant

Mandatory ANCHORING every 3.60 meters as per L.D. 81

WARNINGS FOR USE:

The configurations provided in this page require anchoring

Anchored scaffolding use is always mandatory (every 3.60 metres) to fixed elements.

Each time the operator is not on a work table with regular guard rails and the distance between his/her feet and the lower platform is greater than mt. 2, a suitable anti-fall safety system must be used (EC regulation PPE) available on request. (Anti-fall harness with lanyard with shock absorber and/or vertical life line, approved helmet, accident prevention shoes and gloves).

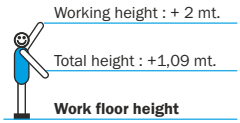
N.B. Each intermediate B1 section contains No. 2 diagonal braces.

The terminal work table must be mounted complete with toeboards and with roll-bar frame fitted correctly.

Work floors can be added to **ALUPONT B74 - BS** Version, thereby transforming the scaffolding in a UNI EN 1004 compliant **ALUPONT B74 - BHD** Version for non-anchored use.

✻ **N.B. - BS-HI Configuration :**
Configuration that uses a B3 upper section made up of:
- No. 2 5-rung frames (B3)
- No. 2 Diagonal braces (D20-25-30)

It is advisable to mount this section in the last position below the terminal and to hook the diagonals in such a way that bind with the lower section.



(⇦) **Anchoring mandatory**

The configurations represented here (excluding the BS HI-configuration) require the use of: the B1 base section, B1 upper sections, B5 protection sections and R15 wheels with screw levelling telescopic legs.

User configurations according to European EN 1004

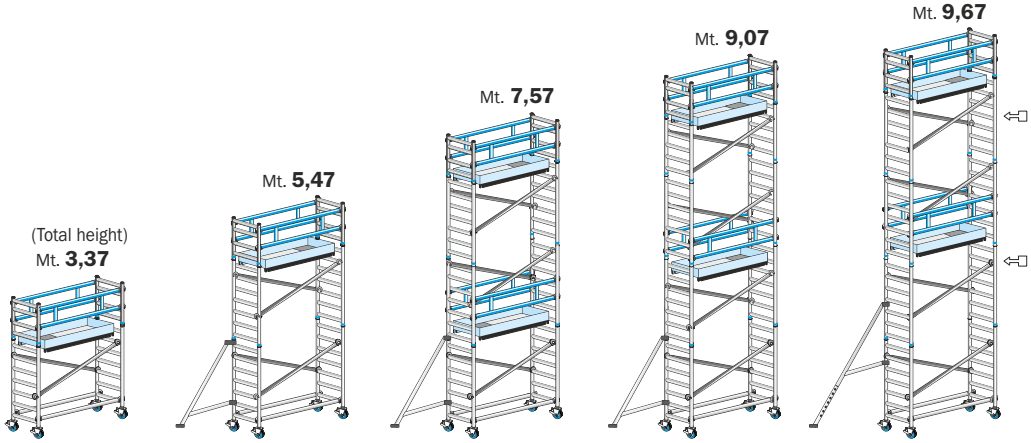
ALUPONT B/74 - BHD Version

Dimensions mt. 0,74x1,97 - 0,74x2,55 - 0,74x3,10

CODE		BHD-1			BHD-2			BHD-3			BHD-HI			BHD-4		
Working height	M	4,22			6,32			8,42			9,92			10,52		
Overall Height	M	3,37			5,47			7,57			9,07			9,67		
Work floor height	**M**	**2,22**			**4,32**			**6,42**			**7,92**			**8,52**		
Width	M	0,74			0,74			0,74			0,74			0,74		
Length	M	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10

CODE	DESCRIPTION	Weig														
ALP MV B1 NF	Vertical upright m 2,1	7,0	2	2	2	4	4	4	6	6	6	6	6	6	8	8	8
ALP MV B3 NF	Vertical upright m 1,5	5,0										2	2	2			
ALP MV B4 NF	Vertical upright m 1,2	3,9															
ALP MP B5 NF	End vertical upright	3,4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ALP H20	Horizontal brace m 2,0	1,8	2			2			2			2			2		
ALP H25	Horizontal brace m 2,5	2,2		2			2			2			2			2	
ALP H30	Horizontal brace m 3,0	2,5			2			2			2			2			2
ALP D20	Diagonal brace m 2,0	1,9	2			4			6			8			8		
ALP D25	Diagonal brace m 2,5	2,3		2			4			6			8			8	
ALP D30	Diagonal brace m 3,0	2,6			2			4			6			8			8
ALP HD20	Guardrail frame m 2,0	4,2	2			2			4			4			4		
ALP HD25	Guardrail frame m 2,5	5,1		2			2			4			4			4	
ALP HD30	Guardrail frame m 3,0	5,8			2			2			4			4			4
ALP GT30	Telescopic leg	1,6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP R15	Wheel Ø 150	3,2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP PB20	Trapdoor work platform m 2,0	13,3	1			1			2			2			2		
ALP PB25	Trapdoor work platform m 2,0	17,4		1			1			2			2			2	
ALP PB30	Trapdoor work platform m 2,0	21,8			1			1			2			2			2
ALP TB20	Toeboard m 2,0	6,5	1			1			2			2			2		
ALP TB25	Toeboard m 2,5	8,0		1			1			2			2			2	
ALP TB30	Toeboard m 3,0	9,0			1			1			2			2			2
ALP ST1	Outrigger	4,9				4	4	4	4	4	4	4	4	4			
ALP ST3	Telscopic outrigger	5,7													4	4	4
TOTAL WEIGHT		**KG.**	**73**	**82**	**90**	**109**	**119**	**128**	**155**	**173**	**189**	**169**	**188**	**204**	**187**	**206**	**222**

N.B: The telescopic leg allows the scaffolding to be levelled by means of a millimetric screw adjustment up to 30 cm.



WITHOUT ANCHORING - UNI EN 1004

WITHOUT ANCHORING - INDOORS UNI EN 1004

with work floors every 4.10 mt. maximum

WARNINGS FOR USE:

The configurations provided in this page permit non-anchored use

ALUPONT B74 - BHD version has construction features identical to standard one, with the sole difference that, to be able to use the tower unanchored, there should not be a distance greater than mt. 4.20 (14 braces) and less than mt. 2.10 metres (7 braces) between one work table and the next.

Each work table must be mounted complete with toeboards and roll-bar frame (intermediate guard rails) correctly installed.

N.B. Each intermediate B1 section contains No. 2 diagonal braces.

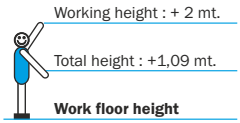
Additional work tables and aluminium ladders for internal lift can be added to the **ALUPONT B74 - BHD** Version, thus transforming it into the **ALUPONT B74 - BHM version**.

ALUPONT B74 - BHD Version mobile scaffolding anchoring is mandatory:

- When the tower is not complete with the work tables required by HD configurations on this page.
- When there is the presence of wind which exceeds the minimum perceptible breeze.
- When the scaffolding is left unattended.
- Where possible, work towers used outside buildings must be securely fixed to the building or other fixed structure.

N.B. - BHD-HI Configuration :
Configuration with a height to the top floor for non-anchored scaffolding use
Use a B3 upper section consisting of: - No. 2 5-rung frames (B3)
-No. 2 Diagonal braces (D20-25-30)

It is advisable to mount this section in the last position below the terminal and to hook the diagonals in such a way that bind with the lower section.



The configurations represented here (excluding the BHD-HI configuration) require the use of: the B1 base section, B1 upper sections, B5 protection sections and R15 wheels with screw levelling telescopic legs.

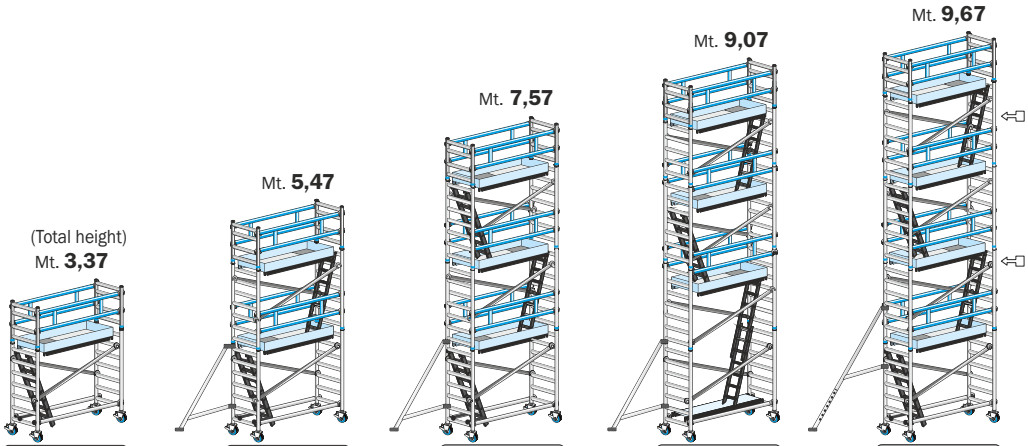
User configurations according to European EN 1004

ALUPONT B/74 - BHM Version

Dimensions mt. 0,74x1,97 - 0,74x2,55 - 0,74x3,10

CODE			BHM-1			BHM-2			BHM-3			BHM-HI			BHM-4		
Working height		M	4,22			6,32			8,42			9,92			10,52		
Overall Height		M	3,37			5,47			7,57			9,07			9,67		
Work floor height		**M**	**2,22**			**4,32**			**6,42**			**7,92**			**8,52**		
Width		M	0,74			0,74			0,74			0,74			0,74		
Length		M	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10
CODE	**DESCRIPTION**	**Weig**															
ALP MV B1 NF	Vertical upright m 2,1	6,5	2	2	2	4	4	4	6	6	6	6	6	6	8	8	8
ALP MV B3 NF	Vertical upright m 1,5	5,0										2	2	2			
ALP MV B4 NF	Vertical upright m 1,2	3,9															
ALP MP B5 NF	End vertical upright	3,4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ALP H20	Horizontal brace m 2,0	1,8	2			2			2			2			2		
ALP H25	Horizontal brace m 2,5	2,2		2			2			2			2			2	
ALP H30	Horizontal brace m 3,0	2,5			2			2			2			2			2
ALP D20	Diagonal brace m 2,0	1,9	2			4			6			8			8		
ALP D25	Diagonal brace m 2,5	2,3		2			4			6			8			8	
ALP D30	Diagonal brace m 3,0	2,6			2			4			6			8			8
ALP HD20	Guardrail frame m 2,0	4,2	2			4			6			6			8		
ALP HD25	Guardrail frame m 2,5	5,1		2			4			6			6			8	
ALP HD30	Guardrail frame m 3,0	5,8			2			4			6			6			8
ALP GT30	Telescopic leg	1,6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP R15	Wheel Ø150	3,2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP P20	Work platform	12,9										1					
ALP P25	Work platform	17,0											1				
ALP P30	Work platform	21,4												1			
ALP PB20	Trapdoor work platform m 2,0	13,3	1			2			3			3			4		
ALP PB25	Trapdoor work platform m 2,5	17,4		1			2			3			3			4	
ALP PB30	Trapdoor work platform m 3,0	21,8			1			2			3			3			4
ALP SC F1PB	Rungs start ladder	7,5	1	1	1	1	1	1	1	1	1				1	1	1
ALP SC 2X7	Rungs start ladder 2x7	10,0										1	1	1			
ALP SC F1P	Intermediate rungs ladder	6,0				1	1	1	2	2	2	2	2	2	3	3	3
ALP TB20	Toeboard m 2,0	6,5	1			2			3			3			4		
ALP TB25	Toeboard m 2,5	8,0		1			2			3			3			4	
ALP TB30	Toeboard m 3,0	9,0			1			2			3			3			4
ALP ST1	Outrigger	4,9				4	4	4	4	4	4	4	4	4			
ALP ST3	Telescopic outrigger	5,7													4	4	4
TOTAL WEIGHT		**KG.**	**81**	**90**	**98**	**151**	**168**	**184**	**203**	**228**	**251**	**232**	**262**	**290**	**269**	**302**	**333**

N.B: The telescopic leg allows the scaffolding to be levelled by means of a millimetric screw adjustment up to 30 cm.



WITHOUT ANCHORING - UNI EN 1004

WITHOUT ANCHORING - INDOORS UNI EN 1004

with work tables every 2.10 mt. and internal service ladders

WARNINGS FOR USE:

The configurations provided in this page permit non-anchored use

The **ALUPONT B74 - BHM Version** scaffold is the most complete version, compliant with European Regulation UNI EN 1004 and it has constructional features identical to the **BHD version** with the only difference that it uses the maximum number of work tables (every mt. 2.10) allowed by the European Regulation and for each of these it uses service ladders with safety hooks that can be step or rung.

N.B. Each intermediate B1 section contains No. 2 diagonal braces.

Each work table must be mounted complete with toeboards and roll-bar frame (intermediate guard rails) correctly installed.

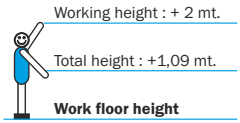
While the base ladder must remain lifted from the ground, by means of suitable hooking arms, all the intermediate ladders should rest on a work table and be hooked to the brace under the upper floor trapdoor.

ALUPONT B74 - BHM Version mobile scaffolding anchoring is mandatory:

- When the tower is not complete with the work tables required by BHD configurations on pages 8 and 9.
- When there is the presence of wind which exceeds the minimum perceptible breeze.
- When the scaffolding is left unattended.
- Where possible, work towers used outside buildings must be securely fixed to the building or other fixed structure.

N.B. - BHM-HI Configuration:
Configuration with a height to the top floor for non-anchored scaffolding use
Use a B3 upper section consisting of: - No. 2 5-rung frames (B3)
- No. 2 Diagonal braces (D20-25-30)

It is advisable to mount this section in the last position below the terminal and to hook the diagonals in such a way that bind with the lower section.



Anchoring mandatory outdoors

The configurations represented here (excluding the BHM HI-configuration) require the use of: the B1 base section, B1 upper sections, B5 protection sections and R15 wheels with screw levelling telescopic legs.

ALUPONT B74 installation instructions

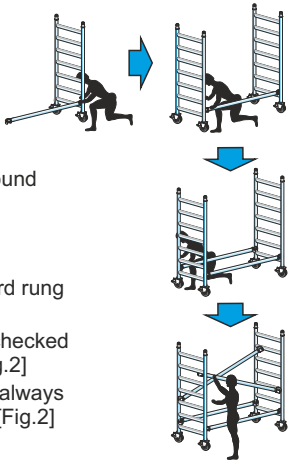
Assembly and dismantling must always be carried out:

- By at least two operators.
- By operators familiar with the operation modes provided by the manufacturer, provided with rope to lift elements and with the appropriate required PPE: Approved helmet, fall protection harness with shock absorption lanyard, positioning belt with cord, accident prevention shoes and gloves.

IMPORTANT: Diagonal brace, horizontal brace and guardrail frame hook

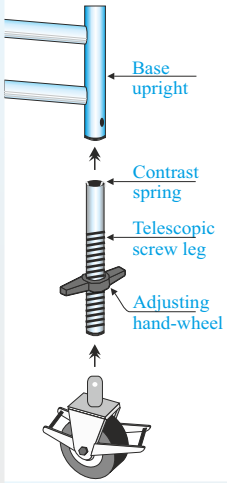
In all ALUPONT system scaffolding, the **diagonal braces (D20-25-30)** are installed blocking the hooking latch on the rung with a firm movement **from top to bottom** while all **horizontal braces (H20-25-30)** and **roll-bar frames (HD20-25-30)** are installed blocking the latch on the vertical tubes with a firm movement from the inside towards the outside.
It is important to always make sure the locking pawls click into place.

Base section



1) Insert telescopic legs with wheels in the base frame lower tube. [Fig.1]
2) Keeping the base upright in the vertical position, attach a horizontal brace (H20-25-30) on the upright vertical tube at the height above the 1st rung and leave the opposite side of the brace on the ground.
3) Position the second base vertical upright, lift the horizontal brace from the ground and hook it to the upright vertical tube at the height above the 1st rung.
4) Similarly attach another horizontal brace on the opposite side.
5) Firmly lock all wheels by pressing the brake lever with your foot.
6) Link two diagonal braces (D20-25-30) one on each side crosswise from the 3rd rung on the base frames.
7) Adjust the height of the telescopic legs, to obtain the perfect verticality to be checked with a spirit level/plumb line (the verticality should not be greater than 1°). [Fig.2]
8) Before getting on the scaffold and in order to prevent accidental movements, always check that all the wheels are braked. The use of suitable wedges is optional. [Fig.2]

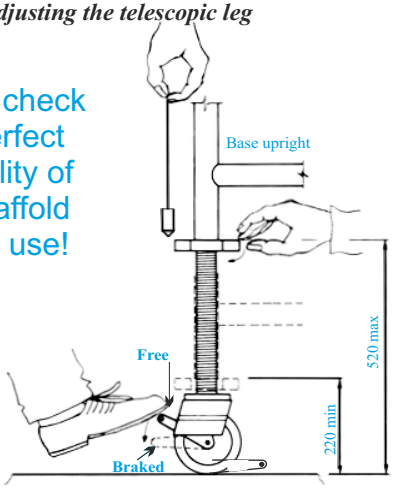
[Fig. 1]: ***Telescopic leg composition***



The telescopic leg is only used to level and must not be used to raise the scaffold!

[Fig. 2]: ***Adjusting the telescopic leg***

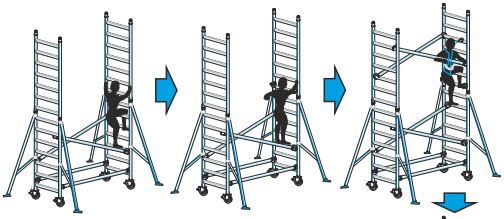
Always check the perfect verticality of the scaffold before use!



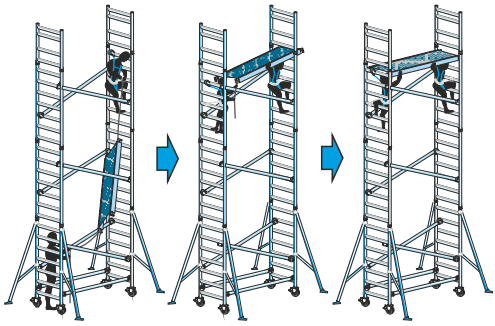
Working adjustment height: 30 cm.

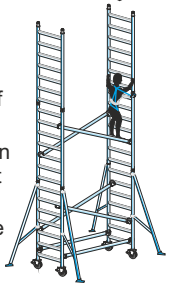
ALUPONT B74 ASSEMBLY PROCEDURE - BS Version

Upper sections



1) Staying in the structure, climb along the vertical upright rungs and fit the upper upright, making sure the elastic lock strap clicks into place. (See P.S.A. page 22)
2) Repeat the operation on the opposite side.
3) Link two diagonal braces (D20-25-30), one for each side, in a crossed manner starting from the 2nd rung of the upper frames, first locking the latch on the opposite side to that of ascent.
4) Repeat steps 1 to 3 until the installation of terminal protection uprights





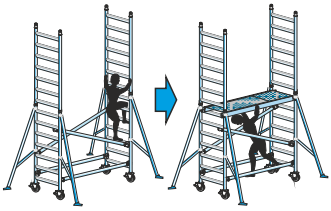
5) Tie two ropes securely at both ends of the work platform
6) The operator in elevation must position the last upper section with the head at the height of last rung.
7) While the operator in elevation lifts the table pulling one rope, the other operator vertically climbs on the opposite side of the tower to guide the ascent of the platform with the other rope.
8) Once at the top, both operators mount the platform on the top rung of the last upper section. Lock the windproof safety devices under the table.
9) Use the rungs to climb internally through the trapdoor until mid-torso, sit on the floor with legs inside the trapdoor and hook the two roll-bar frames (HD20-25-30)(see M.S.P. page 22)
10) Then complete the work table by installing its complete toeboard (TB20-25-30)

IMPORTANT - During the assembly and disassembly of this configuration:

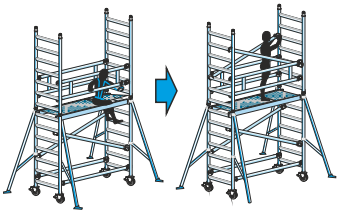
The operator must always be appropriately secured with suitable anti-fall safety system (CE compliant PPE) because this configuration does not provide for intermediate work tables and relevant roll-bar frames (HD20-25-30) unless these are not purchased separately.

ALUPONT B74 ASSEMBLY PROCEDURE - BHD Version

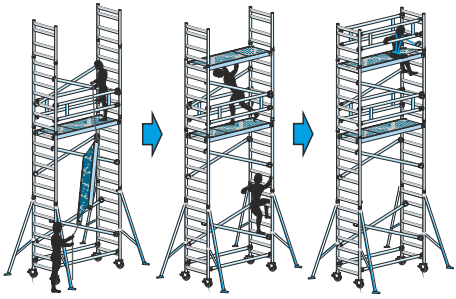
Upper section



1) Staying in the structure, climb along the vertical upright rungs and fit the upper upright, making sure the elastic lock strap clicks into place. (see P.S.A. page 22).
2) Repeat the operation on the opposite side.
3) Install a platform on the bottom rung of the current section with the trapdoor side in the alternate direction (with respect to the position of a any lower platform) and manually pull out the anti-lifting safety devices located under the hooks.
(if not available, recover the work table and the related roll-bar frames installed on the lower level see R.P.F. page 22)



4) Use the rungs to climb internally through the trapdoor until mid-torso, sit on the floor with legs inside the trapdoor and hook the two vertical roll-bar frames (HD20-25-30) (see M.S.P. page 22).



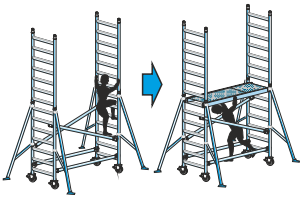
5) Stand on the platform and attach two diagonal braces (D20-25-30) one on each side, in a criss-cross pattern starting from the 2nd rung of the current section.
6) Repeat steps 1 to 5 up to the installation of terminal protection uprights (B5) and the respective roll-bar frames (HD20-25-30).
7) Once the last platform is installed in its final position, make sure that the distance between the work tables does not exceed the measure indicated in the EN 1004: not more than 4.20 mt and not less than 2.10 mt.
8) If necessary, move the intermediate platform together with the relative guard rails to the position described in the configuration on p. 8 (see R.P.F. page 22).
9) Then complete each work table by installing its complete toeboard (TB20-25-30)

IMPORTANT - During the assembly and disassembly of this configuration

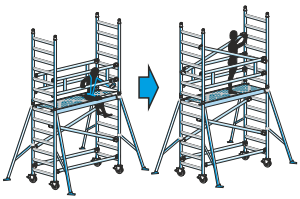
Each time the operator is not located on a table provided with regular roll-bar frames (HD20-25-30) and the distance between his feet and the lower platform is greater than mt. 2 a suitable anti-fall safety system must be used (CE compliant PPE) (See page 12).

ALUPONT B74 ASSEMBLY PROCEDURE - BHM Version

Upper section



1) Staying in the structure, climb along the vertical upright rungs and fit the upper upright, making sure the elastic lock strap clicks into place (see P.S.A. page 22).
2) Repeat the operation on the opposite side.
3) Install the 1st platform on the top rung of the current section and manually remove the anti-lifting safety devices under the hooks
4) Install the service ladder, placing the hooks on the 6th rung of the current section (only for the ladder of the base section also hook the support arms blocking the hook strap on the first rung).
5) Using the service ladder, climb internally through the trapdoor until mid-torso, sit on the floor with legs inside the trapdoor and hook the two roll-bar frames (HD20-25-30) (see M.S.P. page 22).



6) Complete the work table by installing its toeboard (TB20-25-30).
7) Stand on the platform and attach the two diagonal braces (D20-25-30) one on each side, crosswise from the 2nd rung of the upper shoulders.
8) Repeat steps 1 through 7 up to the installation of terminal protection uprights (B5) of the terminal work table (PB20-25-30) provided with toeboard (TB20-25-30) and their respective roll-bar frames (HD20-25-30).

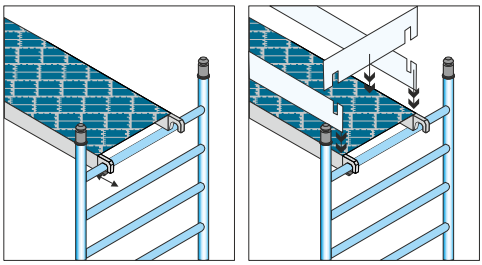
IMPORTANT - During the assembly and disassembly of this configuration

Use of required EC regulation PPE is not mandatory, except when the operator is standing on any platform before coupling or releasing the roll-bar frames (HD20-25-30). (See M.S.P. p. 18)

Work tables and Service tables

- Work platform or table means the floor which occupies the entire inner surface of the scaffolding and must be complete with regulatory toeboards and guard rails.
- Service platform or table is any intermediate table or semi-table that cannot be used as a work table.
- Installing complete toeboards on all work platforms and intermediate service platforms is mandatory.
- The toeboards are interlock mounted: firstly position long planks with grooves facing upwards and then the short ones (see figure on the side).

Complete work table assembly



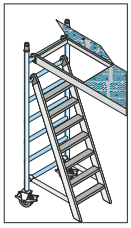
Safety hook | Toeboard assembly

- The European regulation UNI EN 1004 requires a maximum vertical distance between work tables of mt. 4.20 and a minimum vertical distance of mt. 2.10.
- For Alupont scaffolds, the distance between one platform and the next must contain a minimum of 7 and a maximum of 14 rungs.
- After positioning the work table, always manually activate the anti-lifting security devices under the hooks.

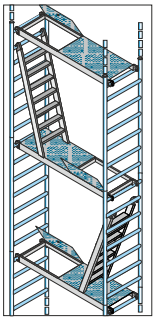
Service ladders

The internal service ladders can be hooked on the same rung as the platform (slightly raising the platform when hooking the ladder) or on the rung below.

- Service ladders can only be mounted internally.
- While the starting ladder must always remain raised from the ground (through the appropriate arms) all the upper ladders must rest on the work table.
- Like work tables, ladders must also be mounted alternately in correspondence to trapdoor openings.
- Ramps with handrails are required to transport bulky equipment.
- Use Frigerio ladders only.



Starting ladder with support arms



ALP BHM configuration with work tables and ladders every 2.10 mt.

N.B. - Moving elements with completed tower :

in case of need it is possible to position the work tables at intermediate heights not provided in the indicated standard configurations, provided that:
- The work table is complete with side railings (HD20-25-30) and complete toeboards.
- In the event of need, the diagonal braces (D20-25-30) or the horizontal braces (H20-25-30) can be moved within the same section, as long as several braces are not detached simultaneously
- To comply with the European regulation, there should not be a distance of more than mt. 4.20 (no. 14 braces) between one work table and the next.

IT IS FORBIDDEN TO REMOVE MORE THAN ONE DIAGONAL BELONGING TO THE SAME SECTION SIMULTANEOUSLY

N.B. - Configurations - HI:

A B3 upper section is used in these configurations made up of: - No. 2 5-rung vertical uprights (B3)
- No. 2 Diagonal braces (D20-25-30)

It is advisable to mount this section in the last position below the terminal and to hook the diagonals in such a way that bind with the lower section.

User configurations according to European Regulation EN 1004 with SELF-ELEVATING uprights and work tables every 2.10 mt.

ALUPONT B/74 - BHDA Version (self elevating) Dimensions mt. 0,74x1,97 - 0,74x2,55

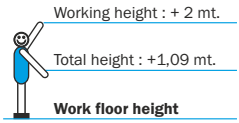
CODE		BHDA-1		BHDA-2		BHDA-3		BHDA-4	
Working height	M	4,22		6,32		8,42		10,52	
Overall Height	M	3,37		5,47		7,57		9,67	
Work floor height	**M**	**2,22**		**4,32**		**6,42**		**8,52**	
Width	M	0,74		0,74		0,74		0,74	
Length	M	1,97	2,55	1,97	2,55	1,97	2,55	1,97	2,55

CODE	DESCRIPTION	Weig								
ALP MV B1 NF	Vertical upright m 2,1	7,0	2	2	4	4	6	6	8	8
ALP MP B4 NF	Vertical upright m 1,2	3,9	2	2	2	2	2	2	2	2
ALP H20	Horizontal brace m 2,0	1,8	2		2		2		2	
ALP H25	Horizontal brace m 2,5	2,2		2		2		2		2
ALP D20	Diagonal brace m 2,0	1,9	2		2		2		2	
ALP D25	Diagonal brace m 2,5	2,3		2		2		2		2
ALP HD20A	Self-elevating guardrail frame	6,2	2		4		6		8	
ALP HD25A	Self-elevating guardrail frame	7,1		2		4		6		8
ALP GT30	Telescopic leg	1,6	4	4	4	4	4	4	4	4
ALP R15	Wheel Ø 150 mm.	3,2	4	4	4	4	4	4	4	4
ALP PB20	Trapdoor work platform m 2,0	13,3	1		2		3		4	
ALP PB25	Trapdoor work platform m 2,5	17,4		1		2		3		4
ALP TB20	Toeboard m 2,0	6,5	1		2		3		4	
ALP TB25	Toeboard m 2,5	8,0		1		2		3		4
ALP ST1	Outrigger	4,9			4	4	4	4		
ALP ST3	Telescopic outrigger	5,7							4	4
TOTAL WEIGHT		**KG.**	**86**	**95**	**159**	**176**	**214**	**238**	**283**	**314**

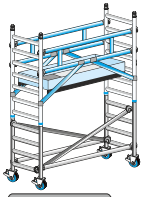
The configurations represented here require the use of: the B4 base section, B1 upper sections, and R15 wheels with screw levelling telescopic legs.

N.B: The telescopic leg allows the scaffolding to be levelled by means of a millimetric screw adjustment up to 30 cm.

As far as the **ALUPONT B74 – BHDA** version is concerned, it is possible to add an optional aluminium ladder or optional aluminium steps for climbing up the inside of the scaffolding

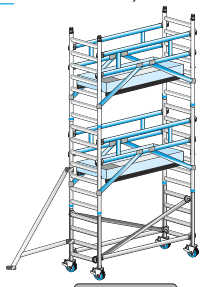


(Total height) Mt. **3,62**



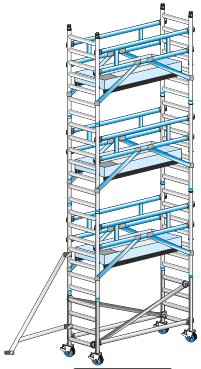
BHDA - 1

Mt. **5,72**



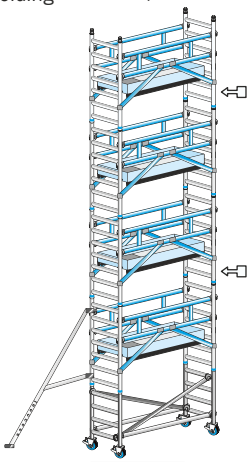
BHDA - 2

Mt. **7,82**



BHDA - 3

Mt. **9,92**



BHDA - 4

WITHOUT ANCHORING - UNI EN 1004 compliant

WITHOUT ANCHORING indoors - UNI EN 1004

ALUPONT B74 - BHDA Version mobile scaffolding anchoring is mandatory:

- When the tower is not complete with the work tables required by FHD configurations
- When there is the presence of wind which exceeds the minimum perceptible breeze.
- When the scaffolding is left unattended.
- Where possible, work towers used outside buildings must be securely fixed to the building or other fixed structure.

(⇦) **Anchoring mandatory outdoors**

WARNINGS FOR USE:

The configurations provided in this page permit non-anchored use

ALUPONT B74 - BHDA Version scaffolding remains UNI EN 1004 compliant; its construction features are identical to standard versions, with the only difference that it preserves 2 H20-25 horizontal braces and 2 D20-25 diagonal braces only for the base section while the roll-bar frames with SELF-ELEVATING devices are applied to upper sections that allows the operator to always work under regulatory protection (in all stages of assembly and disassembly).

The operator must hook the upper table guard rail remaining with the body on the lower floor already provided with guard rails, so as to only reach the upper floor after installing all its elements.

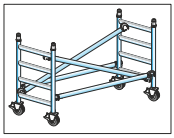
IMPORTANT - During the assembly and disassembly of this configuration

Each time the operator is not located on a table provided with regular (HD20-25-30) or self-elevating (HD20-25-30A) roll-bar frames and the distance between his feet and the lower platform is greater than mt. 2 a suitable anti-fall safety system must be used (CE compliant PPE) (See page 12).

ALUPONT B74 ASSEMBLY PROCEDURE - BHDA Version

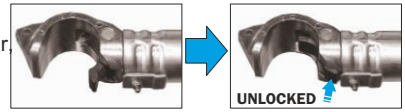
Base section

Assemble the base section as described on page 12 taking care to use MV B4 NF shoulders with 4 rungs as base uprights and securing the first n°2 diagonal braces from the first rung up.

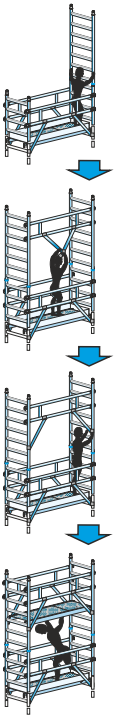


Upper sections

1) Standing up or on the work table, install the upper vertical upright, ensuring that you hear the locking pawls click into place and repeat the same operation on the opposite side,
2) On the ground prepare the HD20-25A self-assembling anti–fall safety device for assembly, then:
   - Rotate the bracket freely until it mirrors the position of the other bracket,
   - Connect the two brackets into a V position by tightening one clamp onto the tube of the other,
   - Release the pawls on all 4 latches, (see figure to the side),



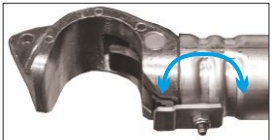
3) By positioning your hands on the 'V' end of the anti-fall safety system lift the element until the lower latches rest on the second rung of the upper shoulders, so that the latch is hooked from the inside towards the outside,
4) With a firm movement push the self-assembling anti–fall safety system element against the vertical tubes until all four latches click into place, from the inside towards the outside,
5) Open the clamps connecting the two brackets until they meet their respective vertical tubes and manually tighten the clamp,
6) Install a platform with trapdoor on the last rung of the current section (with the trapdoor being in the opposite position with respect to the lower platform) and manually remove the anti-lift safety devices positioned under the hooks,
7) Climb up to onto the platform through the trapdoor and install the complete toeboard (TB20-25),
8) Repeat steps 1 to 7 until assembly is completed.



DISASSEMBLY OF GUARDRAILS

Disassemble the guard rails in reverse sequence to the one indicated for assembly, adding the following details for the disassembly of HD20-25A guard rails:

- Before coming down from the work table completely disassemble the toeboard and, at the same time, manually unhook the pawls of both latches on the same side, distancing the latch from the vertical tube by a few centimetres.
- Then turn the lever blocking any accidental re-lock.
- Repeat this procedure on the opposite side of the guard rail and then for all other guard rails on the work table. Come down from the work table and continue with disassembly working backwards from step 6



User configurations according to European Regulation EN 1004 With Collapsible Base Section

ALUPONT B/74 - QUICK Version (collapsible) Dimensions mt. 0,74x1,97

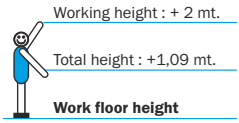
CODE		QUICK-0	QUICK-1	QUICK-2	QUICK-3	QUICK-4
Working height	M	2,96	3,81	5,91	8,01	10,11
Overall Height	M	2,05	3,00	5,10	7,20	9,30
Work floor height	**M**	**0,96**	**1,81**	**3,91**	**6,01**	**8,11**
Width	M	0,74	0,74	0,74	0,74	0,74
Lunghezza	M	1,97	1,97	1,97	1,97	1,97

CODE	DESCRIPTION	Weig					
ALP MV B1 NF	Vertical upright m 2.1	7,0			2	4	6
ALP MP B5 NF	End vertical upright	3,4		2	2	2	2
ALP H20	Horizontal brace m 2,0	1,8			1	1	1
ALP D20	Diagonal brace m 2,0	1,9			3	5	7
ALP HD20	Guardrail frame m 2,0	4,2		2	2	4	4
ALP QCKTEL	Collapsible base section	17,0	1	1	1	1	1
ALP GT30	Telescopic leg	1,0					
ALP QCK RUOT	Wheel Ø125	1,5	4	4	4	4	4
ALP PB20	Trapdoor work platform m 2,0	13,3	1	1	1	2	2
ALP TB20	Toeboard m 2,0	6,5	1	1	1	2	2
ALP ST1	Outrigger	4,9			4	4	
ALP ST3	Telescopic outrigger	5,7					4
TOTAL WEIGHT		**KG.**	**36**	**58**	**98**	**144**	**175**

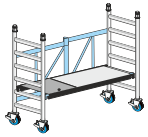
N.B: The telescopic leg allows the scaffolding to be levelled by means of a millimetric screw adjustment up to 30 cm.

The configurations represented here include the use of: the collapsible base section,B1 upper sections, B5 protection sections and R12 wheels Ø 125 mm.

ALUPONT B74 - QUICK Version can be supplemented with aluminium ladders for non mandatory internal climbing.

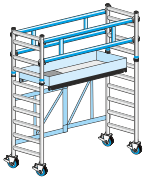


(Total height) Mt. **2,05**



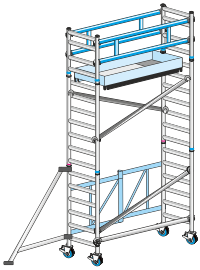
QUICK - 0

Mt. **3,00**



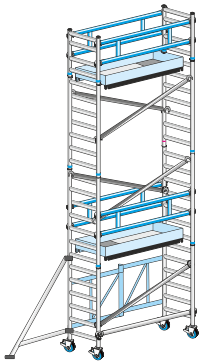
QUICK - 1

Mt. **5,10**



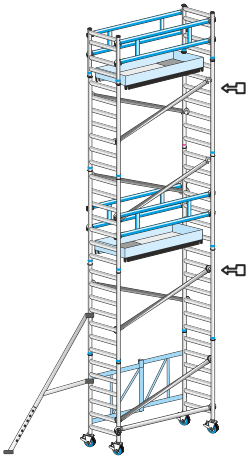
QUICK - 2

Mt. **7,20**



QUICK - 3

Mt. **9,30**



QUICK - 4

WITHOUT ANCHORING - UNI EN 1004 compliant

WITHOUT ANCHORING indoors - UNI EN 1004

When ALUPONT B74 - QUICK Version mobile scaffolding anchoring is mandatory:

- When there is the presence of wind which exceeds the minimum perceptible breeze.
- When the scaffolding is left unattended.
- Where possible, work towers used outside buildings must be securely fixed to the building or other fixed structure.
- When the tower is not complete with the work tables required by QUICK configurations on these pages.

(⇦)

Outdoors mandatory anchoring

WARNINGS FOR USE:

The configuration provided in this page permit non-anchored use

ALUPONT B74 - QUICK version is the version that remains compliant with European Regulation UNI EN 1004 and it has constructional features identical to BHD versions, with the only difference that, using a base section with vertical uprights at a low height and combined with a collapsible frame permit internal doors to be opened and entered.

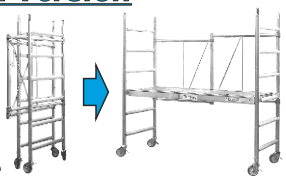
N.B. Each B1 intermediate section contains No. 2 diagonal braces and all work tables must be mounted complete with toeboards, and with roll-bar frame (intermediate guard rails) properly mounted.

IMPORTANT - During the assembly and disassembly of this configuration

Each time the operator is not located on a table provided with regular roll-bar frames (HD20-25-30) and the distance between his feet and the lower platform is greater than mt. 2 a suitable anti-fall safety system must be used (CE compliant PPE) (See page 12).

ALUPONT B74 ASSEMBLY PROCEDURE - QUICK Version

Base section

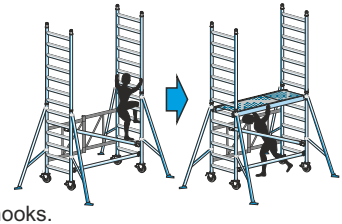


1) Insert telescopic legs with wheels in the lower tube of the base shoulders [See page 12 - Fig.1] or use the supplied adapters.
2) Unlock the wheels and fully extend the collapsible frame, then lock the joint in the open position by inserting the appropriate locking pin.

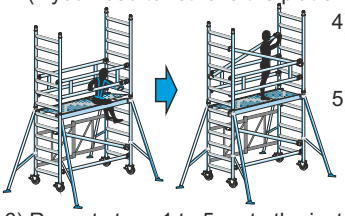
NB. To mount configurations at a height over mt. 3.0 add: no. 1 horizontal brace hooked over the 1st rung from the inside outwards, no. 1 diagonal brace hooked on the opposite side to the collapsible frame, starting from the 2nd rung and the no. 4 stabilisers (see p. 4-5)

NB. To assemble configurations according to European regulation EN 1004 with use without anchoring, the 4 stabilising brackets must always be applied (see p. 4-5)

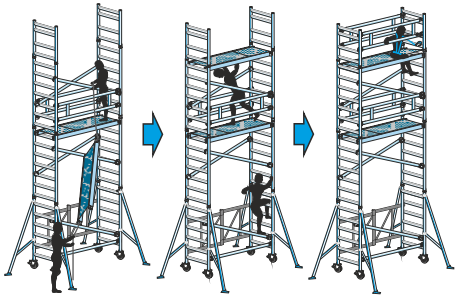
Upper section



1) Staying in the structure, climb along the vertical upright rungs and fit the upper upright, making sure the elastic lock strap clicks into place. (see P.S.A. page 22).
2) Repeat the operation on the opposite side.
3) Install a platform on the last rung of the current section with the trapdoor side in alternating direction (with respect to the position of any lower platform) and manually remove the anti-lifting safety devices under the hooks.
(if you need to retrieve the platform and related protections installed on the lower level see R.P.F. page 22).



4) Using the stairs to climb internally through the trapdoor until mid-torso, sit on the floor keeping the legs inside the trapdoor and hook two roll-bar frames on the vertical tube (HD20-25-30) (see M.S.P. page 22).
5) Stand on the platform and attach the two diagonal braces(D20-25-30) one on each side, crosswise from the 2nd rung of the upper shoulders



6) Repeat steps 1 to 5 up to the installation of terminal protection uprights (B5) and the respective roll-bar frames (HD20-25-30).
7) Once the last platform is installed in its final position, make sure that the distance between the work tables does not exceed the measure indicated in the EN 1004: not more than 4.20 mt and not less than 2.10 mt.
8) If necessary, move the intermediate platform together with the relative guard rails to the position described in the configuration on p. 18 (see R.P.F. page 22).
9) Then complete each work table by installing its complete toeboard (TB20-25-30)

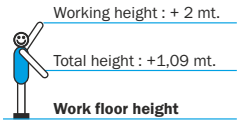
User configurations according to European Regulation EN 1004 without Stabliser brackets/outrigger up to mt 4.20

ALUPONT B/74 - LIM Version (without outrigger) Dimensions mt. 0,74x1,97 - 0,74x2,55 - 0,74x3,10

CODE		LIM-1			LIM-2			LIM-3			LIM-4			LIM-5		
Working height	M	3,60			5,10			6,60			8,10			9,60		
Overall Height	M	2,70			4,20			5,70			7,20			8,70		
Work floor height	**M**	**1,60**			**3,10**			**4,60**			**6,10**			**7,60**		
Width	M	0,74			0,74			0,74			0,74			0,74		
Length	M	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10
CODE	**DESCRIPTION**	**Weig**														
ALP MV B3 NF	Vertical upright m 1.5	5,0	2	2	2	4	4	4	6	6	6	8	8	8	10	10	10
ALP MP B5 NF	End vertical upright	3,4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ALP H20	Horizontal brace m 2,0	1,8	2			2			2			2			2		
ALP H25	Horizontal brace m 2,5	2,2		2			2			2			2			2	
ALP H30	Horizontal brace m 3,0	2,5			2			2			2			2			2
ALP D20	Diagonal brace m 2,0	1,9	2			4			6			8			10		
ALP D25	Diagonal brace m 2,5	2,3		2			4			6			8			10	
ALP D30	Diagonal brace m 3,0	2,6			2			4			6			8			10
ALP HD20	Guardrail frame m 2,0	4,2	2			2			2			4			4		
ALP HD25	Guardrail frame m 2,5	5,1		2			2			2			4			4	
ALP HD30	Guardrail frame m 3,0	5,8			2			2			2			4			4
ALP PB20	Trapdoor work platform m 2,0	13,3	1			1			1			2			2		
ALP PB25	Trapdoor work platform m 2,5	17,4		1			1			1			2			2	
ALP PB30	Trapdoor work platform m 3,0	21,8			1			1			1			2			2
ALP TB20	Toeboard m 2,0	6,5	1			1			1			2			2		
ALP TB25	Toeboard m 2,5	8,0		1			1			1			2			2	
ALP TB30	Toeboard m 3,0	9,0			1			1			1			2			2
ALP ST1	Outrigger	4,9							4	4	4	4	4	4	4	4	4
ALP BB74	Stabilizer wheels base Ø 125	10,0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
TOTAL WEIGHT		**KG.**	**66**	**73**	**80**	**86**	**96**	**105**	**118**	**129**	**138**	**160**	**179**	**196**	**174**	**194**	**211**

The configurations represented here include the use of: B3 section, B5 protection sections and R12 wheels Ø 125 mm. mounted on a stabiliser base for flat surfaces.

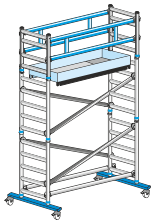
ALUPONT B74 - QUICK version can be supplemented with aluminium ladders for non-mandatory internal climbing.



(Total height) Mt. **2,70**

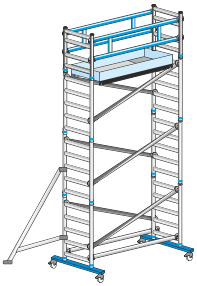
LIM - 1

Mt. **4,20**



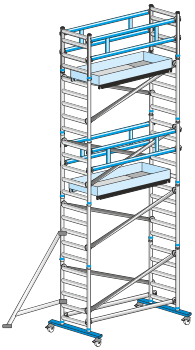
LIM - 2

Mt. **5,70**



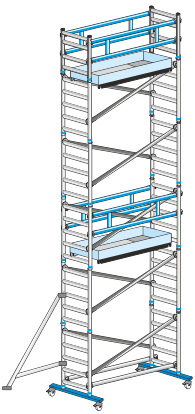
LIM - 3

Mt. **7,20**



LIM - 4

Mt. **8,70**



LIM - 5

WITHOUT ANCHORING - UNI EN 1004 compliant

ALUPONT B74 - LIM Version mobile scaffolding anchoring is mandatory:

- When the tower is not complete with the work tables required by LIM configurations on these pages.
- When there is the presence of wind which exceeds the minimum perceptible breeze.
- When the scaffolding is left unattended.
- Whenever possible, movable towers used outdoors must be secured to the building or other fixed structure.

WARNINGS FOR USE

The configurations provided in this page permit non-anchored use

ALUPONT B74 - LIM version is the version that remains compliant with European Regulation **UNI EN 1004** and it has identical constructional characteristics of **BHD versions**, with the only difference that it has a base section and upper sections with B3 vertical uprights of reduced height mt. 1.5 to allow greater agility indoors.

N.B. Each B3 intermediate section contains No. 2 diagonal braces and all work tables must be mounted complete with toeboards, and with roll-bar frame (intermediate guard rails) properly mounted.

IMPORTANT - During the assembly and disassembly of this configuration

Each time the operator is not located on a table provided with regular roll-bar frames (HD20-25-30) and the distance between his feet and the lower platform is greater than mt. 2 a suitable anti-fall safety system must be used (CE compliant PPE) (See page 12).

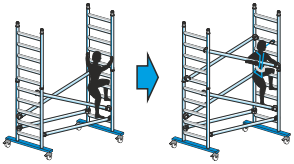
ALUPONT B74 ASSEMBLY PROCEDURE - LIM Version

Base section

1) Attach the stabiliser bases with wheels to base components by inserting the appropriate pins in the lower ends of the vertical uprights making sure the lock strap clicks into place.
2) Combine the two base vertical uprights with two horizontal braces (H20-25-30) by hooking the latches on the upright vertical tube from the inside out to the height above the 1st rung.
3) Firmly lock all wheels by pressing the brake lever with your foot.
4) Link two diagonal braces (D20-25-30) one on each side crosswise from the 3rd rung on the base frames.

N.B. To munt configurations at a height over mt. 4.2 according to European regulation EN 1004 with use without anchoring, the 4 stabilising brackets must always be applied (see p. 4-5)

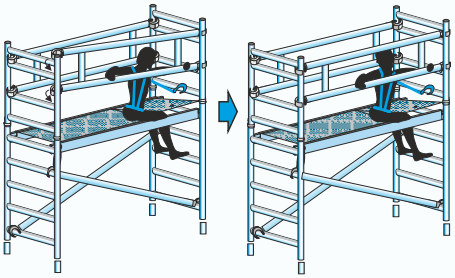
Upper sections



1) Staying in the structure, climb along the vertical upright rungs and fit the upper upright, making sure the elastic lock strap clicks into place. (*vedi P.S.A. pag.* 22)
2) Repeat the operation on the opposite side.
3) Link two diagonal braces (D20-25-30), one for each side, crosswise starting from the 1st rung of the upper uprights before locking the latch on the side opposite that of ascent.

4) Repeat steps 1 to 3 until the installation of terminal protection uprights.
5) Link two ropes securely at both ends of the work platform.
6) The operator in elevation must position the last upper section with the head at the height of last rung.
7) While the operator on the ground raises the floor by pulling one rope, the other operator ascends vertically on the opposite side to guide the ascent of the platform with the other rope.
8) Once at the top, both operators mount the platform on the top rung of the last upper section. Lock anti-wind safety devices under the floor.
9) Use the rungs to climb internally through the trapdoor until mid-torso, sit on the floor with legs inside the trapdoor and hook the two roll-bar frames (HD20-25-30)(see M.S.P. page 22)
10) Once the last platform is installed in its final position, make sure that the distance between the work tables does not exceed the measure indicated in the EN 1004: not more than 4.20 mt and not less than 2.10 mt.
11) If necessary, move the intermediate platform together with the relative guard rails to the position described in the configuration on p. 20 (see R.P.F. page 22).
12) Then complete each work table by installing its complete toeboard (TB20-25-30)

«ASSEMBLY AND REMOVAL OF PROTECTIVE SECTION (M.S.P.)"



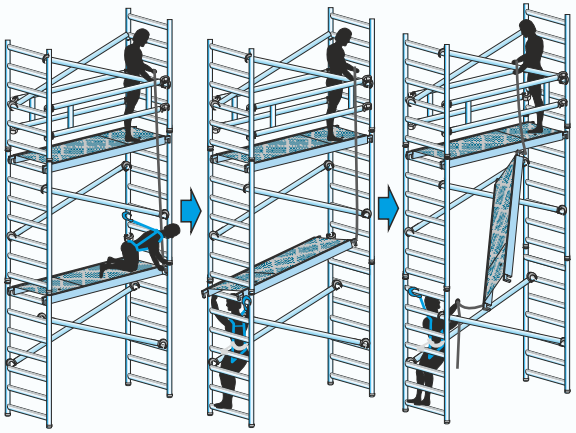
Procedure that describes the right movements needed to install the protection elements above a work platform without leaving the safety condition:

1) Appropriately secured with a harness, climb inside through the trapdoor (using the vertical element rungs or service ladder) until mid-torso and sit on the floor, but keep your legs inside the trapdoor.
2) Remaining seated, hook two roll-bar frames (HD20-25-30) one for each side, positioning the lower latch over the second rung of the upper shoulders and locking the two latches from the inside out, first on the nearest vertical upright and then accompanying the protection element with a rapid movement toward the other vertical upright, making sure the locking pawl clicks into place.

Protective element disassembly

1) On the side opposite the trapdoor, unhook the guard rail latches from the vertical tubes on both sides, leaving the latches resting on the rung (thus, a possible accidental fall towards the guard rail would re-lock it) and then open the trapdoor and sit on the floor keeping your legs inside the trapdoor.
2) While seated, release one guard rail at a time and pass the element to the operator on the lower floor.

«TABLE RECOVERY AND LIFTING WITH ROPES (R.P.F.)"



Procedure that describes the right movements needed to lift and move the work platforms:

- The operator on the upper floor passes one end of the rope to the operator on the lower floor (appropriately secured with anti-fall device) who must first firmly secure the end of the rope to the end of the work table without trapdoor, then descend on the opposite side of the tower through the trapdoor and stand under the work table appropriately secured with anti-fall device. (see P.S.A.)
- While the upper operator lifts one side of the platform by means of the rope, the lower operator facilitates the disengagement of the platform on the opposite side and with another rope guiding the ascent of the platform.
- No one should stand under suspended loads.

(The operation must be done while remaining within the structure and, where there are no platforms complete with guard rails, remaining appropriately secured to the same with EC standard PPE).

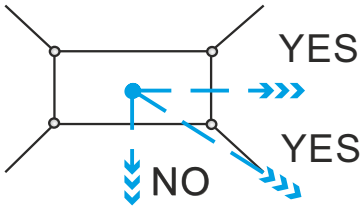
"ELEVATED SAFETY POSITION ON VERTICAL ELEMENTS (P.S.A.)"

Whenever standing at heights over 2 mt from any floor, use the appropriate EC compliant P.P.E.: harness with shock absorber lanyard.

Many times, however, both hands are required to hook the upper elements, such as an upper shoulder; in these cases it is mandatory to use, together with the harness, also the positioning belt with the relative positioning lanyard

- Wear anti-fall harness and positioning belt with their lanyards.
- Climb on the vertical upright to the necessary height, using its rungs and securing yourself with the harness when climbing.
- Upon reaching the desired height, secure the positioning belt lanyard to the most convenient rung and, leaning back, push with your feet to tighten the lanyard.

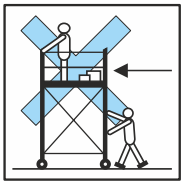
Move instructions



Only movements on perfectly flat, smooth, compact surfaces without obstacles and wind are allowed

To move the scaffold, lift the brackets, but not more than 12 millimetres.

Movements can only take place in the longitudinal or diagonal direction. If working against a wall, thus with unilateral expansion of the base, movement is only permitted if parallel to the wall.

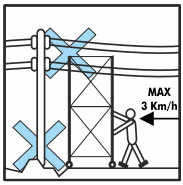


Mobile work towers can only be moved manually

During the move, no people or objects should be on the scaffolding.
Furthermore, people should not be found within a range one and a half times the scaffold height.

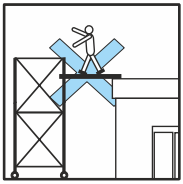
Standard walking speed should not be exceeded during movement.

To avoid any destabilising impact, pay attention to obstacles on the ground and in the air. Always keep at least seven metres away from high voltage electric cables and at least five metres from the low voltage electrical cables.



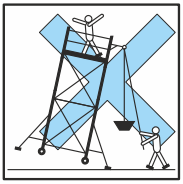
The surface on which the scaffolding is moved must be capable of supporting its weight. Brake and stabilise the scaffolding after each movement. Also check the verticality.

Bridge connections between one mobile work tower and a building, and between two different scaffolds are not permitted.



Use and installation of lifting devices is not permitted
(except Frigerio pulley).

Exceeding 35 kg. horizontal load per person, pushing with tools, such as drills, etc., is prohibited

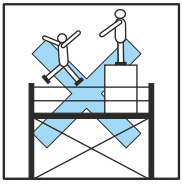


Jumping on platforms is prohibited.

Leaning your body over the side section and pushing the scaffolding from above are prohibited. In the case of scaffolds with different work platforms, you can only work on one platform.

Overloading work platforms exceeding the indicated capacities is prohibited. Never use, on the scaffolding floors, steps or superstructures that raise the working height.

Assembling, using and moving scaffolds in strong wind is prohibited.



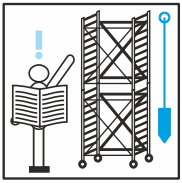
ALUPONT B-74 DISMANTLING PROCEDURE - All versions

Each ALUPONT B74 version must be dismantled in reverse order to that indicated in the assembly instructions for the same version.

It is strictly forbidden to throw components from above, both for the safety of someone walking by, and to preserve the integrity of the elements that must be kept, avoiding their deterioration or loss, or improper use for other functions.

Before each use (and after each move)

Always check the verticality and that mobile work tower was duly mounted following the provided instructions, to ensure execution in a workmanlike manner.
Before each use, makes sure all safety measures to prevent accidental movement have been taken, by applying locking brakes and stabiliser brackets.



Use of mobile work towers on stairs or steep slopes

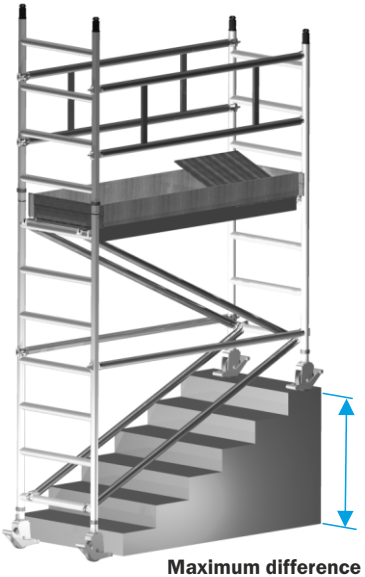
The ALUPONT B74 mobile work tower, in all its configurations shown in this booklet (with the exception of the ALP QUICK version) can be used on stairs, on steep inclines or on very uneven ground, which could not be climbed with the normal use of ALP GT30 telescopic legs.

The adjustment allows for making up for slopes or uneven ground with 30 cm steps per time and subsequent aligning of the correct height by adjusting the ALP GT30 telescopic legs, up to 4 steps, which corresponds to 1,20 + mt. 0.30 of adjustment of the telescopic legs,

N.B. For each configuration described in this booklet, the ALUPONT B74 mobile work tower is available in three lengths: 1.97m - 2.55m - 3.10 meters with the maximum slope allowed dependent on the length chosen, as described below:

- **For a work tower length of 1.97 m** suitable for use on slopes up to a maximum incline of 38° = 77%
- **For a work tower length of 2.55 m** suitable for use on slopes up to a maximum incline of 31° = 60%
- **For a work tower length of 3.10 m** suitable for use on slopes up to a maximum incline of 27° = 50%

WARNING: Always ensure that you secure the mobile work tower against any potential slippage when used on inclines (for example by using wedges under the wheels or anchoring the structure).



Maximum difference in height 1.20 mt + 0.30 mt. of screw adjusted telescopic leg

Adapting the mobile work tower to use on a slope or uneven ground is carried out by assembling the base section by the slope or uneven ground, according to the following procedure:

1) Prepare n°2 ALP MV B1 NF vertical uprights with 7 rungs with telescopic legs and wheels already engaged, with the brakes well locked. Position one on the lower part of the ground and the other on the higher.
2) Secure the ALP H20-25-30 horizontal brace with a firm movement from the inside out to the vertical tube of the vertical upright positioned on the higher ground. Rest the latch above the first rung and hook the other end of the horizontal brace to the vertical tube of the upright positioned in the lower position.
3) Repeat on the opposite side.
4) Align the rungs of the two vertical uprights to the same height using the position of the ALP H20-25-30 horizontal brace as reference and regulate the height of the ALP GT30 telescopic legs, ensuring adequate adjustment of the scaffold so as to be certain that both horizontal braces do not deviate by more than 1°.
5) On both sides hook n°2 ALP D20-25-30 diagonal braces onto the rung with a firm downward movement, starting from the first rung of the vertical upright in the lower position (see the diagram to the side) and hooking the other end onto the first available rung on the vertical upright positioned on higher ground.
6) Install the base stabilizer brackets/extenders as appropriate as described on pages 4 and 5 of the instructions booklet. On slopes make sure that you have taken every precaution against possible slippage of the wheels, even if well locked.

STABILIZER BRACKETS
In order to calculate the stability and the correct use of the stabilizer brackets, consider the height to the first level on the side where the distance from the ground is greatest.

It is then possible to carry on with height assembly of the mobile work tower by closely following the assembly instructions and the regulatory standards described in this booklet for the configuration chosen..

Work tables with “GRAN LUCE” system for use over obstructions.

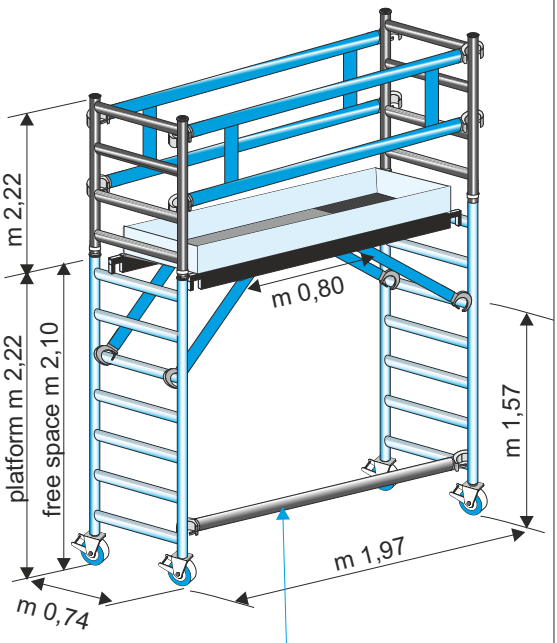
Work tables with “GRAN LUCE” system are ideal for ALUPONT F135 configurations which do not exceed 2.22 meters from the ground.

The GRAN LUCE system allows you to use the bridge mobile work tower over obstructions up to a height of 1.60 meters. In fact, a double diagonal brace is added onto both sides of the work table thus stabilizing the structure without having to use base diagonal braces.

Procedure for assembling the base section with work table with “GRAN LUCE” system:

1) Join the ALP MV F1 NF vertical uprights by hooking the horizontal brace (ALP H20-25-30) onto the vertical tube from the inside out, resting the latches above the first rung of the base section (ensure that the pawls lock into place)
2) Then install the work table on the 7th rung using the correct hooks.
3) Slightly raise the double gran–luce braces in order to hook the latches onto the second rung below the work table (ensure that the pawls lock into place).
4) If present, manually remove the anti-lift device positioned under the safety latches.
5) Climb onto the work table by means of the trapdoor and once you are suitably harnessed using the P.P.E. provided, install the two protection ALP MP F5 NF uprights on both sides (ensuring that you hear the stainless steel locking clamp click into place).
6) Remaining suitably harnessed with the P.P.E. provided, install the guardrails (ALP HD20-25-30) on both sides by hooking the latches onto the vertical tube from the inside out (ensuring that the pawls lock into place) and resting the lower latches above the 2nd rung beyond the work table.

Example of ALP BHD/1 configuration with self-supporting work table with double “GRAN LUCE” diagonal braces



It is not necessary to use the horizontal base brace if the height to the work table is less than 1.60 meters

TRAVERSA ORIZZONTALE DI BASE

The horizontal base brace (ALP H20-25-30) is necessary for the assembly of the base section and in order to be able to move the mobile work tower.

It is not necessary to use the horizontal base brace if the scaffold is anchored to a fixed part or if the height to the work table is less than 1.60 meters.

COMPOSITION - ALP BHD20-1 (mt. 1,97) with Gran Luce platform			
CODE	**description**	**Weight kg**	**n°**
ALP MV B1 NF	Vertical upright a 7 steps	7,0	2
ALP MP B5 NF	Protection upright	3,4	2
ALP HD20	Protection frame	4,2	2
ALP GT30	Leveling telescopich leg	1,0	4
ALP R15	Whells Ø 150 EN1004	3,2	4
ALP PB20GL	GRAN LUCE working platform w/trap.	17,0	1
ALP TB20	Whood toeboard	6,5	1
ALP H20	Orinzontal brace	1,8	1

ITALIAN REGULATION

Legislative Decrete no 81 dated April 9, 2008

Art. 111 - Employer obligations in using equipment for work above ground

1. The employer, when temporary work above ground cannot be performed in safety conditions and adequate ergonomic conditions from a place suited for this purpose, selects the most appropriate work equipment to guarantee and maintain safe work conditions, according to the following criteria:

a) priority to group protection measures over personal protection measures;

b) work equipment dimensions suited to the nature of the work to be performed, expected stress and circulation without risks.

2. The employer selects the most suitable type of access system to temporary workplaces above ground in relation to circulation frequency, altitude and duration of work. The adopted access system must permit evacuation in the event of imminent danger. The passage from an access system to platforms, scaffolds, catwalks and vice versa should not infer additional fall risks.
3. The employer ensures that a ladder is only used as an above ground workplace when the use of other work equipment considered safer is not justified due to the limited risk level and short-term use or site features that cannot be modified.
4. The employer ensures that access and positioning systems are used with ropes to which the worker is directly supported, only in circumstances in which, following risk assessment, work can be safely performed and the use of other equipment considered safer is not justified due to the short-term use and site features that cannot be modified. The employee ensures the use of a seat equipped with specific accessories according to the risk assessment results and, specifically, work duration and ergonomic restrictions.
5. The employer, according to the type of work equipment adopted based on the previous points, identifies measures to minimise worker risks, intrinsic to the equipment in question, installing, where necessary, fall protection devices. These devices must have a configuration and resistance to avoid or stop falls from above ground work sites and prevent, where possible, any worker injuries. Group protection devices against falls may only include interruptions in points where there are ladders or rungs.
6. For special work, the employer may require the temporary elimination of a group protection device against falls, adopting equivalent and efficient safety measures. Work is performed after adopting these measures. Once this special work is permanently or temporarily completed, the group protection devices against falls must be restored.
7. The employer only performs temporary work above ground if weather conditions do not put workers' safety and health in jeopardy.
8. The employer also prohibits workers assigned to above ground work from drinking or administering alcohol or hard liquor.

Art. 112 - Temporary structure appropriateness

2. Before reusing scaffolding elements of any type, they must be checked to eliminate those no longer deemed suitable as per annex XIX.

Art. 123 - Temporary structure assembly and dismantling

1. Temporary structures must be assembled and dismantled under the direct supervision of a work manager.

Art. 124 - Material storage on scaffolding

1. Storage on service bridges and scaffolding in general is prohibited except for the temporary storage of material and tools necessary for work.
2. The weight of the material and people must always be under the one permitted by the scaffolding's structural resistance; the space occupied by material must permit the movement and manoeuvres necessary for work.

Art. 126 - Guard rails

1. Scaffolding and service bridges, catwalks, walkways, over 2 metres off the ground, must be equipped with a sturdy guard rail in good conditions on all sides facing a void.

Art. 128 - Underbridges

1. Scaffolding and service bridges must have a safety underbridge, built like a bridge, at a distance not greater than 2.50 m.
2. Underbridge construction can be omitted for suspended bridges, for cantilevered bridges and when maintenance and repairs lasting under five days are performed.

Art. 138 - Special regulations
1. Throwing scaffold elements from above is prohibited.

Art. 140 - Mobile scaffolding
1) Mobile scaffolding must have ample bases to resist, with ample safety margins, the loads and oscillations they can be subject to during movements or due to wind and to avoid tipping (Carefully follow the assembly instructions. Ed.)
2) The surface in contact with wheels must be level; the scaffold load on the ground must be suitably divided with planks or other equivalent means.
3) Scaffold wheels must be securely locked with shims on both sides or equivalent systems.
4) Scaffold wheels must be anchored to the constructions at least every two floors; an exception is permitted for mobile scaffolding compliant with annex XXIII (European regulation compliance. Ed.)
5) Mobile scaffold verticality must be checked with a level or pendulum.
6) Scaffolds, excluding those used for work on power contact lines, should not be moved when holding workers or loads.

PERSONNEL TRAINING

As for scaffold assembly, dismantling or transformation personnel training, the employer must implement that foreseen by articles 36 and 37 of Legislative Decree 81/08 that clarifies the need to train, educate and inform workers on scaffolding for above ground work.
Circular no. 30/2006 issued by the Ministry of Employment also requires specific training for scaffolding installers.

Regulatory References:

- **L.D. 81** (9 April 2008): “Safety Consolidation Act"
- **Uni EN 1004** (2005): “Mobile work towers (mobile scaffolding) made of prefabricated elements. Materials, components, size, nominal loads and safety requirements”.
- **M.D. 27** March 1998 (O.G. no. 102 dated 05/05/1998): “Recognition of compliance to the current norms, of safety means and systems for the building sector, and for the use of tower scaffolds on wheels".
- **EN 1298** (February 1996): "Mobile work towers. Rules and guidelines for the preparation of an instructions manual”.

DECLARATION OF CONFORMITY

This is to declare that the ALUPONT B/74 mobile scaffolding is constructed in accordance with Legislative Decree No. 81 dated April 9, 2008.

This is to further declare that the same scaffolding, mounted and used according to the instructions described in this manual, in BHD, BHM, BHDA, LIM, and QUICK configurations, meet UNI EN 1004 European Regulations.

Consequently, this is to declare that the scaffolding passed the tests required by ministerial decree March 27, 1998 (O.G. no. 102 dated 05/05/1998). The tests were conduced by the Milan Polytechnics Material Test Laboratory, as per test certificate no. 2000/2948 issued in Milan on 21/09/2000.

FRIGERIO CARPENTERIE S.p.A.

User liability:

The manufacturer cannot be held liable for personal or property damages due to improper scaffolding use or by the full or partial failure to follow the instructions in this booklet, or by failure to conduct periodic checks or maintenance against any damages caused by use or the elements.
We thus recommend you carefully inspect scaffolding parts before use and observe pertinent safety regulations.

PERIODIC CHECKS To be completed 1 time a year with a ink pen, both in case of an OK check or otherwise, if necessary protect this page from dirt by applying a strip of transparent

Check date	Examined part	Check OK	Check NOT OK	Problem description	Name of the person performing the verification	Signature
Repair date	Type of repair			Name of the person performing the repair		Signature
27/09/2018	ALP MOR MG		X	Crepa laterale	Mauro Rossi	Matteo Milesi
28/09/2018	sostituzione morsetto			Matteo Milesi		Mauro Rossi

EXEMPLE

PERIODIC CHECKS To be completed 1 time a year with a ink pen, both in case of an OK check or otherwise, if necessary protect this page from dirt by applying a strip of transparent

Check date	Examined part	Check OK	Check NOT OK	Problem description	Name of the person performing the verification	Signature
Repair date	Type of repair			Name of the person performing the repair		Signature

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Check date	Examined part	Check OK	Check NOT OK	Problem description	Name of the person performing the verification	Signature
Repair date	Type of repair			Name of the person performing the repair		Signature

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