Frigerio® S.p.A. CARPENTERIE

Instructions and rules of use of mobile scaffolding on wheels

ALUPONT F/135

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 F135 Modular mobile scaffolding

ALUPONT F135 - Base dimensions: **mt. 1,35 x 1,97 - 1,35 x 2,55 - 1,35 x 3,10**

NOMINAL PLATFORM CAPACITY

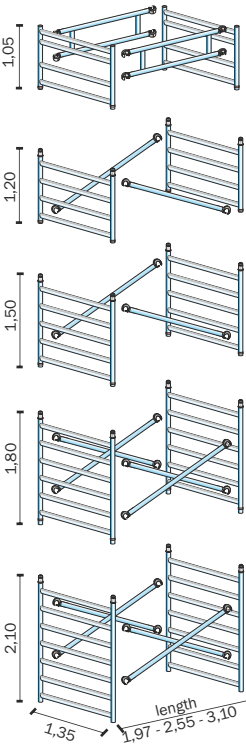
ALUPONT F135 for lengths mt. 1,97 - 2,55:	200 kg/mq (classe 3)
maximum capacity evenly distributed mt. 1,97:	460 kg.
maximum capacity evenly distributed mt. 2,55:	600 kg.
ALUPONT F135 for lengths mt. 3,10:	150 kg/mq (classe 2)
maximum capacity evenly distributed mt. 3,10:	550 kg.

MAXIMUM HEIGHT AT WALK-OVER FLOOR

ALP F135 - FS Version:	up to mt. 14,82 mandatory anchoring as per DL.81
ALP F135 - FHD Version:	up to mt. 7,92 not anchored indoor and outdoor, as per UNI EN 1004
ALP F135 - FHM Version:	up to mt. 11,82 not anchored indoor, as per UNI EN 1004 up to mt. 14,82 mandatory anchoring as per DL.81
ALP F135 - FHDA Version:	up to mt. 6,67 not anchored indoor and outdoor, as per UNI EN 1004 up to mt. 10,87 not anchored indoor, as per UNI EN 1004 up to mt. 12,97 mandatory anchoring as per DL.81
ALP F135 - FTRS Version:	up to mt. 6,72 not anchored indoor and outdoor, as per UNI EN 1004 up to mt. 10,92 not anchored indoor, as per UNI EN 1004 up to mt. 13,02 mandatory anchoring as per DL.81

Single base and upper section compositions

Upper sections F135



ROLL-BAR SECTION
Art. SPF5
Nr. 2 roll-bars uprights F5
Nr. 2 roll-bar frames HD20-25-30

UPPER SECTION
Art. SSF4
Nr. 2 vertical uprights F4
Nr. 2 diagonal braces D20-25-30

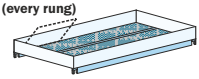
UPPER SECTION
Art. SSF3
Nr. 2 vertical uprights F3
Nr. 2 diagonal braces D20-25-30

UPPER SECTION
Art. SSF2
Nr. 2vertical uprights F2
Nr. 4 diagonal braces D20-25-30

UPPER SECTION
Art. SSF1
Nr. 2vertical uprights F1
Nr. 4 diagonal braces D20-25-30

Work platform F135

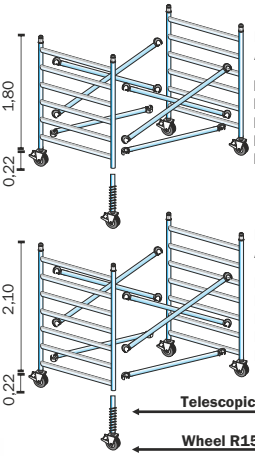
The work table can be placed every 30 cm in height (every rung)



WORK TABLE F135 complete
Art. PB20-25-30 +
Art. P20-25-30 +
Art. FTB20-25-30
Nr. 1 complete toeboard
Nr. 1 work table with trapdoor
Nr. 1 work table without trapdoor

Standard base sections F135

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. 4 diagonal braces
No. 2 horizontal braces

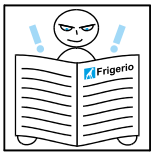


BASE SECTION
Art. SBF2
Nr. 2 vertical uprights B2
Nr. 4 diagonal braces D20-25-30
Nr. 2 horizontal braces H20-25-30
Nr. 4 wheels Ø 150 mm. with brake
Nr. 4 telescopic legs GT30

BASE SECTION
Art. SBF1
Nr. 2 vertical uprights B1
Nr. 4 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 F135 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:

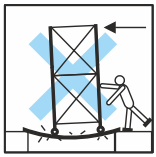
- wheels, original and suitable for use, are not damaged, that they turn and that the brakes are working.
- The telescopic legs are not folded and are free of bends and dents on the threads.
- All frames and tubes are integral and without dents; that the work table frame is perfect and wooden panels 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.

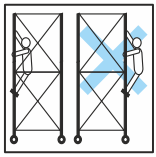
Work cannot be performed less than seven metres from power lines.
(Also consider any cable oscillations due to wind).

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.

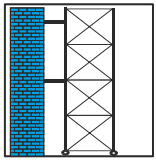


The operator must climb up and down inside the scaffold, using the non-slip rungs of the vertical uprights, or any cable ladders, available on request. After accessing work floors, ensure the trapdoor is closed. Always operate on a work floor, protected by guardrail (alternatively, ensure safety using 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 14)

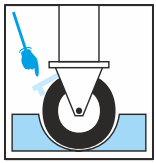
Anchor the scaffold.



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

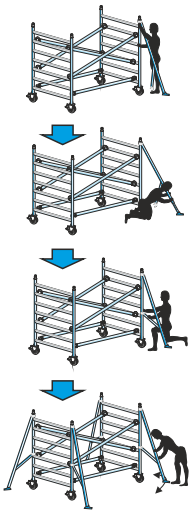
Correct bracket assembly is essential for the anti-tip safety!

- ✓ 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):

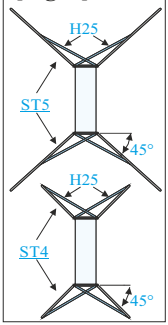
1) Adjust the extension of the telescopic leg and insert the lock pin (for telescopic extenders).
2) To avoid slippage in the vertical direction, the top bracket clamp must be mounted, if possible, just below the most convenient rung, trying to maintain a 45° angle with respect to the ground.
3) The 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):

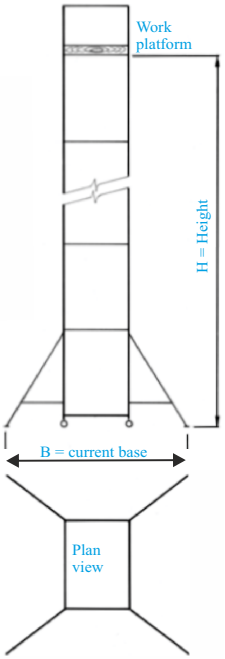
1) First insert the wheel into the telescopic leg and then insert the telescopic leg in the ST5 frame external vertical tube.
2) Secure the two ST5 frame clamps to the base shoulder vertical tube.
3) Adjust the height of the telescopic leg using the adjusting knob.
4) The upper clamp must be fixed accordingly,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

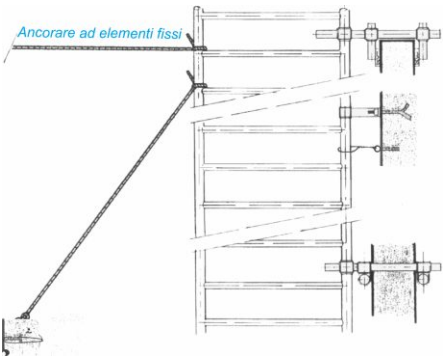
Whenever possible, movable towers used outdoors must be secured to the building or other fixed structure.

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.



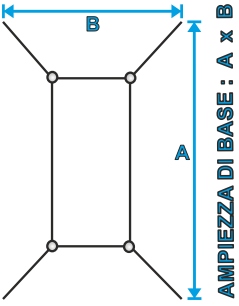
Anchoring by retaining cables (or guying), which must always be controlled in tension and in the nodes, must be supported by calculation report carried out by a qualified professional.

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

CONFIGURAZIONI ALUPONT F135 PER USO NON ANCORATO

TRABATTELLO modello x lunghezza	AMBIENTE interno - esterno	ALTEZZA al piano mt.	STAFFA consigliata tipo	AMPIEZZA BASE minima da raggiungere mt. A x mt. B	PIANO LAVORO n° minimo	SCALE DI SERVIZIO n° minimo
FHD20 / FHM20 / FHDA20 - 2	Esterno	4,32	ST1	4,51 x 4,29	1	
FHD20 / FHM20 / FHDA20 - 2	Interno	4,32	ST1	2,51 x 2,29	1	
FHD25 / FHM25 / FHDA25 / FTRS - 2	Esterno	4,32	ST1	4,49 x 4,39	1	2
FHD25 / FHM25 / FHDA25 / FTRS - 2	Interno	4,32	ST1	2,59 x 2,19	1	2
FHD30 / FHM30 - 2	Esterno	4,32	ST1	4,44 x 4,49	1	
FHD30 / FHM30 - 2	Interno	4,32	ST1	3,04 x 2,09	1	
FHD20 / FHM20 / FHDA20 - 3	Esterno	6,42	ST1	5,51 x 5,49	2	
FHD20 / FHM20 / FHDA20 - 3	Interno	6,42	ST1	2,81 x 2,59	2	
FHD25 / FHM25 / FHDA25 / FTRS - 3	Esterno	6,42	ST1	5,29 x 5,49	2	3
FHD25 / FHM25 / FHDA25 / FTRS - 3	Interno	6,42	ST1	2,69 x 2,39	2	3
FHD30 / FHM30 - 3	Esterno	6,42	ST1	5,14 x 5,59	2	
FHD30 / FHM30 - 3	Interno	6,42	ST1	3,04 x 2,29	2	
FHD20 / FHM20 - HI	Esterno	7,92	ST1	6,31 x 6,49	2	
FHD20 / FHM20 - HI	Interno	7,92	ST1	3,01 x 2,89	2	
FHD25 / FHM25 - HI	Esterno	7,92	ST1	6,12 x 6,49	2	
FHD25 / FHM25 - HI	Interno	7,92	ST1	2,99 x 2,69	2	
FHD30 / FHM30 - HI	Esterno	7,92	ST1	5,94 x 6,69	2	
FHD30 / FHM30 - HI	Interno	7,92	ST1	3,04 x 2,49	2	
FHD20 / FHM20 / FHDA20 - 4	Interno	8,52	ST3	2,91 x 2,79	3	
FHD25 / FHM25 / FHDA25 / FTRS - 4	Interno	8,52	ST3	2,79 x 2,59	3	4
FHD30 / FHM30 - 4	Interno	8,52	ST3	3,04 x 2,39	3	
FHD20 / FHM20 / FHDA20 - 5	Interno	10,62	ST3	3,21 x 3,09	3	
FHD25 / FHM25 / FHDA25 / FTRS - 5	Interno	10,62	ST3	3,09 x 2,79	3	5
FHD30 / FHM30 - 5	Interno	10,62	ST3	3,04 x 2,69	3	
FHD20 / FHM20 - HE	Interno	11,82	ST3	3,41 x 3,29	3	
FHD25 / FHM25 - HE	Interno	11,85	ST3	3,19 x 2,99	3	
FHD30 / FHM30 - HE	Interno	11,82	ST3	3,14 x 2,79	3	

User configurations according to Italian regulation D.L.81

ALUPONT F/135 - FS Version

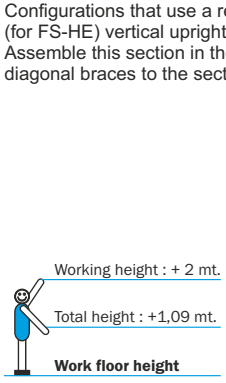
Dimensions

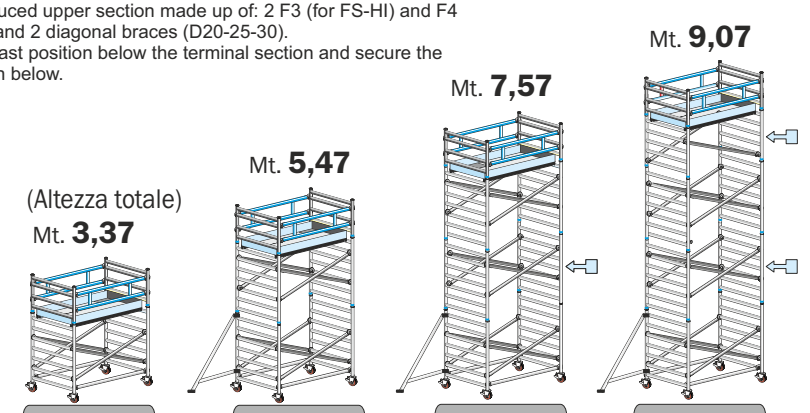
CODE		FHD-1			FHD-2			FS-3			FS-HI			FS-4			FS-5		
Working height	M	4,22			6,32			8,42			9,92			10,52			12,62		
Overall Height	M	3,37			5,47			7,57			9,07			9,67			11,77		
Work floor height	**M**	**2,22**			**4,32**			**6,42**			**7,92**			**8,52**			**10,62**		
Width	M	1,35			1,35			1,35			1,35			1,35			1,35		
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	1,97	2,55	3,10

CODE	DESCRIPTION	Kg.																	
ALP MV F1 NF	Vertical upright m 2,1	9,6	2	2	2	4	4	4	6	6	6	6	6	6	8	8	8	10	10	10
ALP MV F3 NF	Vertical upright m 1,5	7,1										2	2	2						
ALP MV F4 NF	Vertical upright m 1,2	5,7																		
ALP MP F5 NF	End protection frame	4,7	2	2	2	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			2		
ALP H25	Horizontal brace m 2,5	2,2		2			2			2			2			2			2	
ALP H30	Horizontal brace m 3,0	2,5			2			2			2			2			2			2
ALP D20	Diagonal brace m 2,0	1,9	4			8			12			14			16			20		
ALP D25	Diagonal brace m 2,5	2,3		4			8			12			14			16			20	
ALP D30	Diagonal brace m 3,0	2,6			4			8			12			14			16			20
ALP HD20	Guardrail frame m 2,0	4,2	2			2			2			2			2			2		
ALP HD25	Guardrail frame m 2,5	5,1		2			2			2			2			2			2	
ALP HD30	Guardrail frame m 3,0	5,8			2			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	4	4	4
ALP R15	Wheels Ø 150 mm.	3,2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP P20	Work platform m 2,0	12,9	1			1			1			1			1			1		
ALP P25	Work platform m 2,5	17,0		1			1			1			1			1			1	
ALP P30	Work platform m 3,0	21,4			1			1			1			1			1			1
ALP PB20	Trapdoor working platform	13,3	1			1			1			1			1			1		
ALP PB25	Trapdoor working platform	17,4		1			1			1			1			1			1	
ALP PB30	Trapdoor working platform	21,8			1			1			1			1			1			1
ALP FTB20	Toeboard m 2,0	8,5	1			1			1			1			1			1		
ALP FTB25	Toeboard m 2,5	10,1		1			1			1			1			1			1	
ALP FTB30	Toeboard m 3,0	10,9			1			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	4	4	4
ALP ST5	Frame weels outrigger	10,0																		
TOTAL WEIGHT		**KG.**	**100**	**114**	**127**	**145**	**161**	**175**	**172**	**189**	**204**	**190**	**208**	**224**	**213**	**231**	**248**	**240**	**260**	**277**

The configurations represented above (excluding FS-HI/HE) include the use of: F1 base section, F1 upper sections, F5 protective sections and R15 wheels with telescopic legs and screw adjusting knob.

✻ **N.B. - FS-HI and FS-HE configurations:**
Configurations that use a reduced upper section made up of: 2 F3 (for FS-HI) and F4 (for FS-HE) vertical uprights and 2 diagonal braces (D20-25-30).
Assemble this section in the last position below the terminal section and secure the diagonal braces to the section below.





(⇦) **Anchoring mandatory**

WITHOUT ANCHORING - UNI EN 1004

mt. 1,35x1,97 - 1,35x2,55 - 1,35x3,10

	FS-HE			FS-6			FS-7		
	13,82			14,72			16,82		
	12,97			13,87			15,97		
	11,82			**12,72**			**14,82**		
	1,35			1,35			1,35		
	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10
	10	10	10	12	12	12	14	14	14
	2	2	2						
	2	2	2	2	2	2	2	2	2
	2			2			2		
		2			2		4	6	4
			2			2			2
	22			24			28		
		22			24			28	
			22			24			28
	2			2			2		
		2			2			2	
			2			2			2
	4	4	4	4	4	4	8	8	8
	4	4	4	4	4	4	8	8	8
	1			1			1		
		1			1			1	
			1			1			1
	1			1			1		
		1			1			1	
			1			1			1
	1			1			1		
		1			1			1	
			1			1			1
	4	4	4	4	4	4			
							4	4	4
	255	**276**	**294**	**267**	**288**	**307**	**327**	**350**	**370**

WARNINGS FOR USE:
The configurations provided in this page require anchoring

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

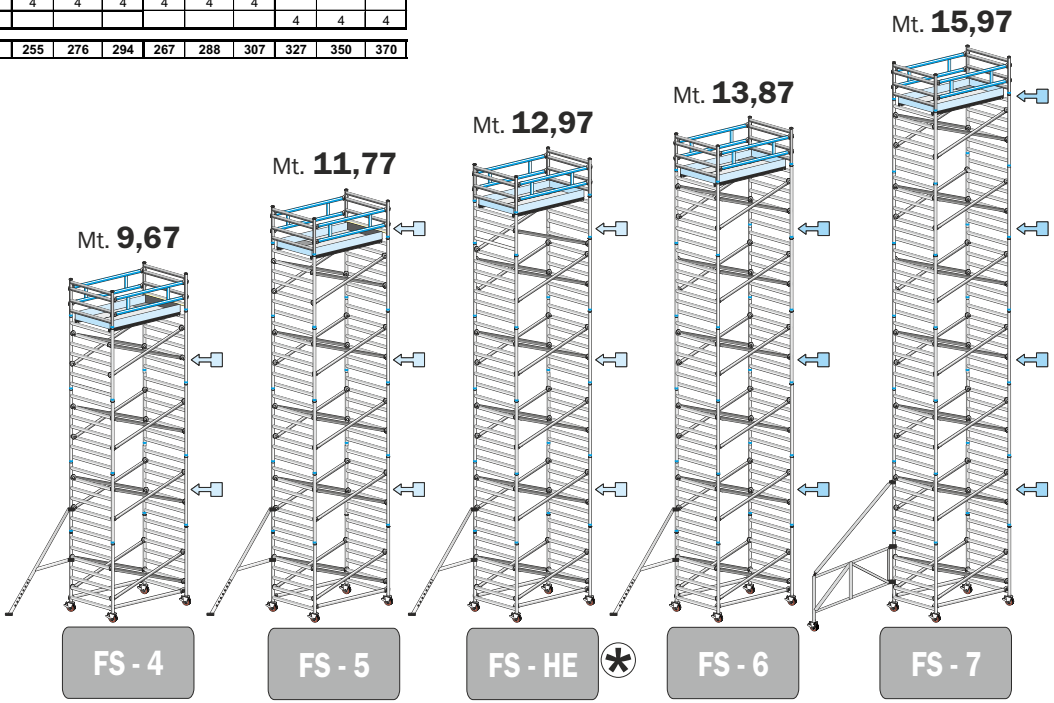
Each time the operator is not on a work table with regular guard rails and the distance between his/her feet and the lower platform is greater than mt. 2, a suitable anti-fall safety system must be used (EC regulation PPE) available on request. (Anti-fall harness with lanyard with shock absorber and/or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

N.B. Each intermediate F1 section contains No.4 diagonal braces. except for those with work table which use only 2 assembled the opposite way round.

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

Work floors can be added to **ALUPONT F135 - FS Version**, thereby transforming the scaffolding in a UNI EN 1004 compliant **ALUPONT F135 - FHD Version** for non-anchored use.

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



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

User configurations according to European EN 1004

ALUPONT F/135 - FHD Version

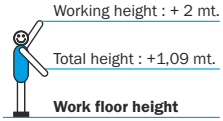
Dimensions

CODE			FHD-1			FHD-2			FHD-3			FHD-HI			FHD-4			FHD-5		
Working height		M	4,22			6,32			8,42			9,92			10,52			12,62		
Overall Height		M	3,37			5,47			7,57			9,07			9,67			11,77		
Work floor height		**M**	**2,22**			**4,32**			**6,42**			**7,92**			**8,52**			**10,62**		
Width		M	1,35			1,35			1,35			1,35			1,35			1,35		
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	1,97	2,55	3,10
CODE	**DESCRIPTION**	**Kg.**																		
ALP MV F1 NF	Vertical upright m 2,1	9,6	2	2	2	4	4	4	6	6	6	6	6	6	8	8	8	10	10	10
ALP MV F3 NF	Vertical upright m 1,5	7,1										2	2	2						
ALP MV F4 NF	Vertical upright m 1,2	5,7																		
ALP MP F5 NF	End protection frame	4,7	2	2	2	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			2		
ALP H25	Horizontal brace m 2,5	2,2		2			2			2			2			2			2	
ALP H30	Horizontal brace m 3,0	2,5			2			2			2			2			2			2
ALP D20	Diagonal brace m 2,0	1,9	4			8			10			12			14			16		
ALP D25	Diagonal brace m 2,5	2,3		4			8			10			12			14			16	
ALP D30	Diagonal brace m 3,0	2,6			4			8			10			12			14			16
ALP HD20	Guardrail frame m 2,0	4,2	2			2			4			4			4			6		
ALP HD25	Guardrail frame m 2,5	5,1		2			2			4			4			4			6	
ALP HD30	Guardrail frame m 3,0	5,8			2			2			4			4			4			6
ALP GT30	Telescopic leg	1,6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP R15	Wheels Ø 150 mm.	3,2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP P20	Work platform m 2,0	12,9	1			1			2			2			2			3		
ALP P25	Work platform m 2,5	17,0		1			1			2			2			2			3	
ALP P30	Work platform m 3,0	21,4			1			1			2			2			2			3
ALP PB20	Trapdoor working platform	13,3	1			1			2			2			2			3		
ALP PB25	Trapdoor working platform	17,4		1			1			2			2			2			3	
ALP PB30	Trapdoor working platform	21,8			1			1			2			2			2			3
ALP FTB20	Toeboard m 2,0	8,5	1			1			2			2			2			3		
ALP FTB25	Toeboard m 2,5	10,1		1			1			2			2			2			3	
ALP FTB30	Toeboard m 3,0	10,9			1			1			2			2			2			3
ALP ST1	Outrigger	4,9				4	4	4	4	4	4	4	4	4						
ALP ST3	Telescopic outrigger	5,7													4	4	4	4	4	4
ALP ST5	Frame weels outrigger	10,0																		
TOTALI WEIGHT		**KG.**	**100**	**114**	**127**	**145**	**161**	**175**	**212**	**239**	**265**	**230**	**258**	**284**	**252**	**282**	**308**	**319**	**360**	**399**

The configurations represented above (excluding FHD-HI/HE) include the use of: F1 base section, F1 upper sections, F5 protective sections and R15 wheels with telescopic legs and screw adjusting knob.

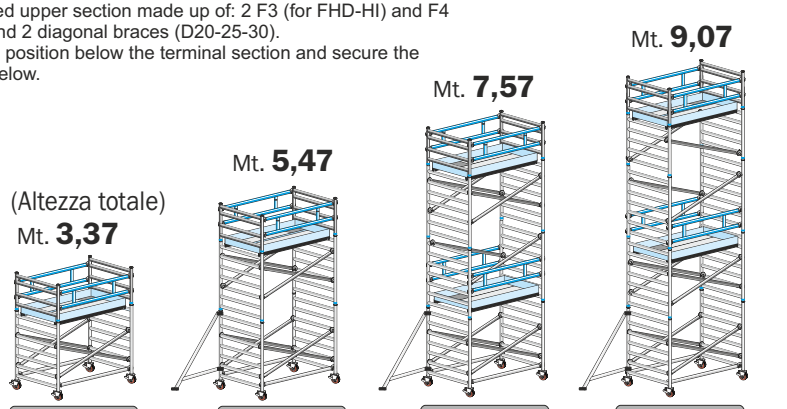
N.B: The telescopic leg allows th
by means of a millimetric s

✻ **N.B. - FHD-HI and FHD-HE configurations:**
Configurations that use a reduced upper section made up of: 2 F3 (for FHD-HI) and F4 (for FHD-HE) vertical uprights and 2 diagonal braces (D20-25-30).
Assemble this section in the last position below the terminal section and secure the diagonal braces to the section below.



(⇦) **Anchoring mandatory**

(⇦) **Anchoring mandatory outdoors**



WITHOUT ANCHORING - UNI EN 1004

with work floors every 4.10 mt. maximum

mt. 1,35x1,97 - 1,35x2,55 - 1,35x3,10

	FHD-HE			FHD-6			FHD-7		
	13,82			14,72			16,82		
	12,97			13,87			15,97		
	11,82			**12,72**			**14,82**		
	1,35			1,35			1,35		
	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10
	10	10	10	12	12	12	14	14	14
	2	2	2						
	2	2	2	2	2	2	2	2	2
	2			2			2		
		2			2		4	6	4
			2			2			2
	18			20			22		
		18			20			22	
			18			20			22
	6			6			8		
		6			6			8	
			6			6			8
	4	4	4	4	4	4	8	8	8
	4	4	4	4	4	4	8	8	8
	3			3			4		
		3			3			4	
			3			3			4
	3			3			4		
		3			3			4	
			3			3			4
	3			3			4		
		3			3			4	
			3			3			4
	4	4	4	4	4	4			
							4	4	4
	334	**376**	**415**	**346**	**389**	**428**	**446**	**501**	**552**

WARNINGS FOR USE:

The configurations provided in this page permit non-anchored use

ALUPONT F135 - FHD 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.

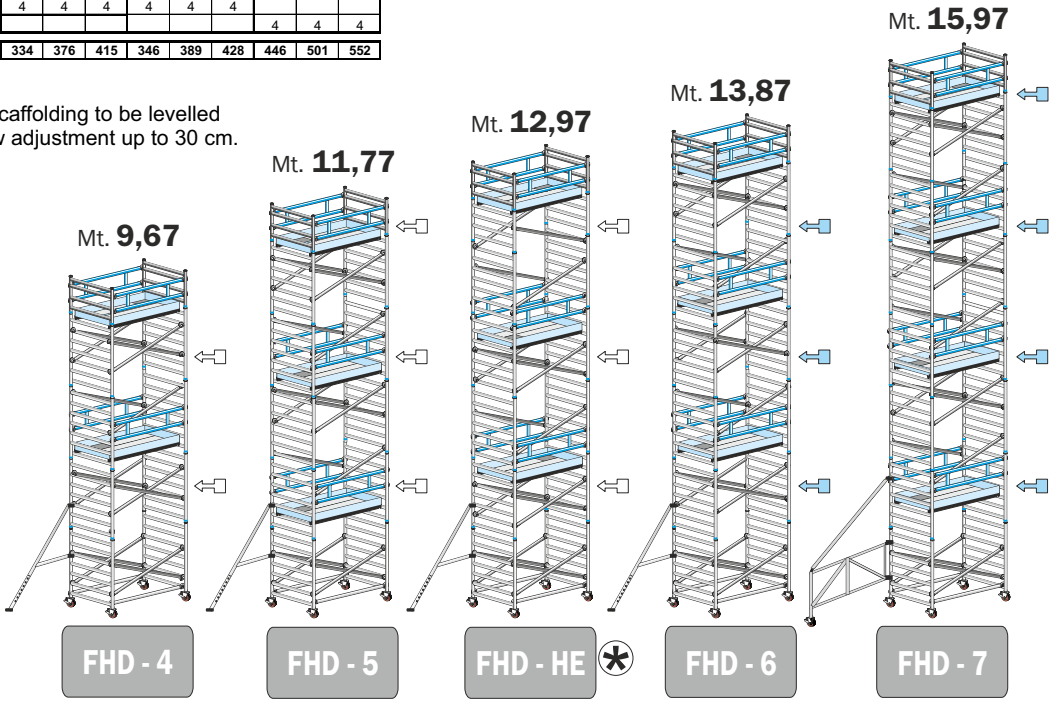
N.B. Each intermediate F1 section contains No. 4 diagonal braces. except for those with work table which use only 2 assembled the opposite way round.

Additional work tables and aluminium ladders for internal lift can be added to the **ALUPONT F135 - FHD Version**, thus transforming it into the **ALUPONT F135 - FHM version**.

ALUPONT F135 - FHD Version mobile scaffolding anchoring is mandatory:

- When the tower is not complete with the work tables required by FHD 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.

he scaffolding to be levelled
crew adjustment up to 30 cm.



WITHOUT ANCHORING - INDOORS as per UNI EN 1004

Mandatory ANCHORING as per L.D. 81

User configurations according to European EN 1004

ALUPONT F/135 - FHM Version

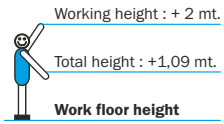
Dimensions

CODE			FHM-1			FHM-2			FHM-3			FHM-HI			FHM-4			FHM-5		
Working height		M	4,22			6,32			8,42			9,92			10,52			12,62		
Overall Height		M	3,37			5,47			7,57			9,07			9,67			11,77		
Work floor height		**M**	**2,22**			**4,32**			**6,42**			**7,92**			**8,52**			**10,62**		
Width		M	1,35			1,35			1,35			1,35			1,35			1,35		
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	1,97	2,55	3,10
CODE	**DESCRIPTION**	**Kg.**																		
ALP MV F1 NF	Vertical upright m 2,1	9,6	2	2	2	4	4	4	6	6	6	6	6	6	8	8	8	10	10	10
ALP MV F3 NF	Vertical upright m 1,5	7,1										2	2	2						
ALP MV F4 NF	Vertical upright m 1,2	5,7																		
ALP MP F5 NF	End protection frame	4,7	2	2	2	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			2		
ALP H25	Horizontal brace m 2,5	2,2		2			2			2			2			2			2	
ALP H30	Horizontal brace m 3,0	2,5			2			2			2			2			2			2
ALP D20	Diagonal brace m 2,0	1,9	4			6			8			12			10			12		
ALP D25	Diagonal brace m 2,5	2,3		4			6			8			12			10			12	
ALP D30	Diagonal brace m 3,0	2,6			4			6			8			12			10			12
ALP HD20	Guardrail frame m 2,0	4,2	2			4			6			6			8			10		
ALP HD25	Guardrail frame m 2,5	5,1		2			4			6			6			8			10	
ALP HD30	Guardrail frame m 3,0	5,8			2			4			6			6			8			10
ALP GT30	Telescopic leg	1,6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP R15	Wheels Ø 150 mm.	3,2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ALP P20	Work platform m 2,0	12,9	1			2			3			4			4			5		
ALP P25	Work platform m 2,5	17,0		1			2			3			4			4			5	
ALP P30	Work platform m 3,0	21,4			1			2			3			4			4			5
ALP PB20	Trapdoor working platform	13,3	1			2			3			3			4			5		
ALP PB25	Trapdoor working platform	17,4		1			2			3			3			4			5	
ALP PB30	Trapdoor working platform	21,8			1			2			3			3			4			5
ALP SC F1PB	Rungs start ladder	7,5	1	1	1	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	Rungs intermediate ladder	6,0	0	0	0	1	1	1	2	2	2	2	2	2	3	3	3	4	4	4
ALP FTB20	Toeboard m 2,0	8,5	1			2			3			3			4			5		
ALP FTB25	Toeboard m 2,5	10,1		1			2			3			3			4			5	
ALP FTB30	Toeboard m 3,0	10,9			1			2			3			3			4			5
ALP ST1	Outrigger	4,9				4	4	4	4	4	4	4	4	4						
ALP ST3	Telescopic outrigger	5,7													4	4	4	4	4	4
ALP ST5	Frame weels outrigger	10,0																		
TOTALI WEIGHT		**KG.**	**108**	**122**	**134**	**198**	**225**	**249**	**271**	**309**	**345**	**304**	**348**	**389**	**357**	**408**	**456**	**429**	**493**	**552**

The configurations represented above (excluding FHM-HI/HE) include the use of: F1 base section, F1 upper sections, F5 protective sections and R15 wheels with telescopic legs and screw adjusting knob.

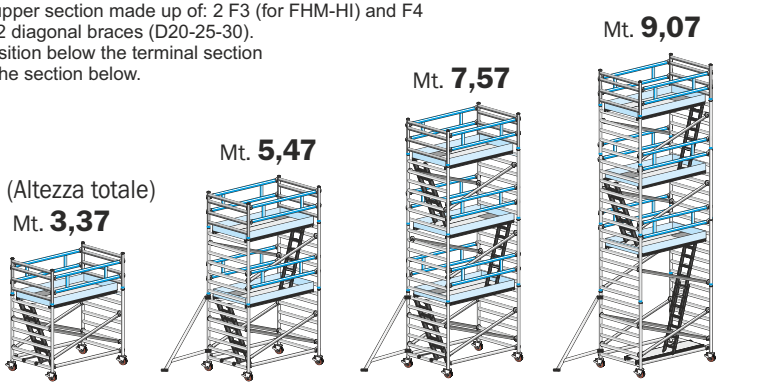
N.B: The telescopic leg allows the
by means of a millimetric sc

✻ **N.B. - FHM-HI and FHM-HE configurations:**
Configurations that use a reduced upper section made up of: 2 F3 (for FHM-HI) and F4 (for FHM-HE) vertical uprights and 2 diagonal braces (D20-25-30). Assemble this section in the last position below the terminal section and secure the diagonal braces to the section below.



(⇦) **Anchoring mandatory**

(⇦) **Anchoring mandatory outdoors**



WITHOUT ANCHORING - UNI EN 1004

with work tables every 2.10 mt. and internal service ladders

mt. 1,35x1,97 - 1,35x2,55 - 1,35x3,10

	FHM-HE			FHM-6			FHM-7		
	13,82			14,72			16,82		
	12,97			13,87			15,97		
	11,82			**12,72**			**14,82**		
	1,35			1,35			1,35		
	1,97	2,55	3,10	1,97	2,55	3,10	1,97	2,55	3,10
	10	10	10	12	12	12	14	14	14
	2	2	2						
	2	2	2	2	2	2	2	2	2
	2			2			2		
		2			2		4	6	4
			2			2			2
	16			14			16		
		16			14			16	
			16			14			16
	10			12			14		
		10			12			14	
			10			12			14
	4	4	4	4	4	4	8	8	8
	4	4	4	4	4	4	8	8	8
	6			6			7		
		6			6			7	
			6			6			7
	5			6			7		
		5			6			7	
			5			6			7
				1	1	1	1	1	1
	1	1	1						
	4	4	4	5	5	5	6	6	6
	5			6			7		
		5			6			7	
			5			6			7
	4	4	4	4	4	4			
							4	4	4
	450	**539**	**593**	**502**	**578**	**648**	**608**	**696**	**778**

e scaffolding to be levelled
rew adjustment up to 30 cm.

WARNINGS FOR USE:

The configurations provided in this page permit non-anchored use

The **ALUPONT F135 - FHM Version** scaffold is the most complete version, compliant with European Regulation UNI EN 1004 and it has constructional features identical to the **FHD 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.

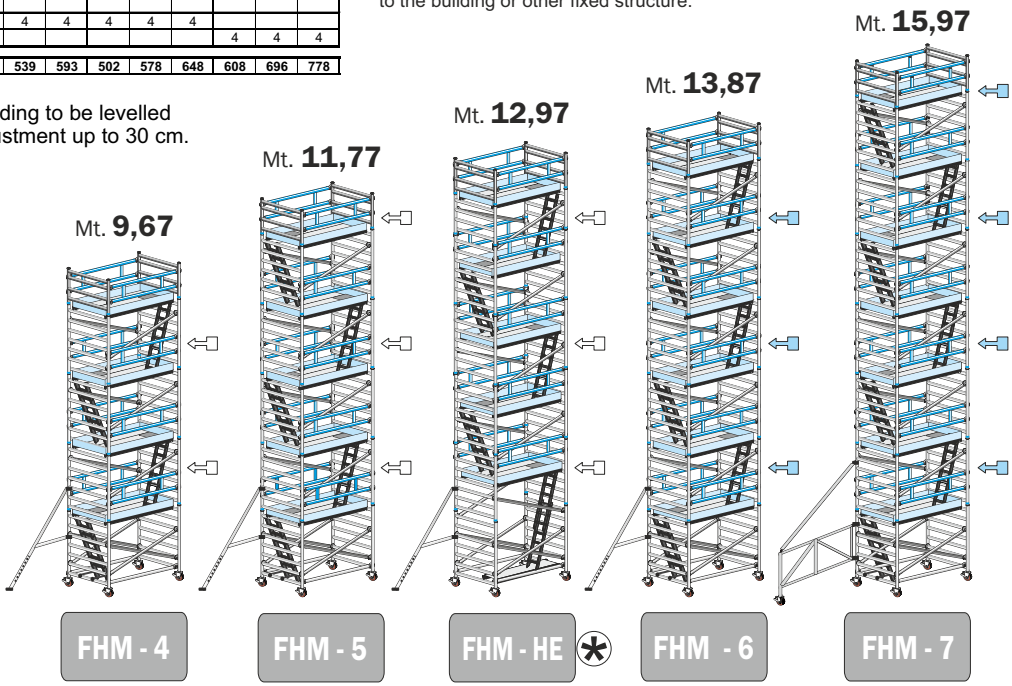
Each work table must be mounted complete with toeboards and roll-bar frame (intermediate guard rails) correctly installed.

N.B. Each intermediate F1 section contains No. 4 diagonal braces. except for those with work table which use only 2 assembled the opposite way round.

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 F135 - FHM Version mobile scaffolding anchoring is mandatory:

- When the tower is not complete with the work tables required by FHD 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.



WITHOUT ANCHORING - INDOORS as per UNI EN 1004

Mandatory ANCHORING as per L.D.81

ALUPONT F135 installation instructions

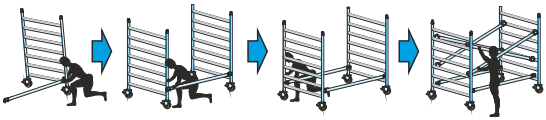
Assembly and dismantling must always be carried out:

- 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

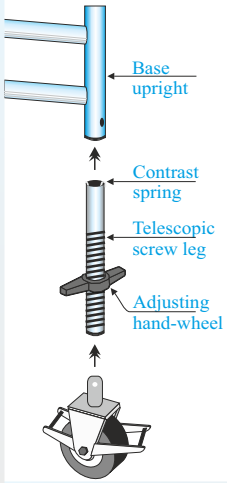
In all ALUPONT system scaffolding, the **diagonal braces (D20-25-30)** are installed blocking the hooking latch on the rung with a firm movement **from top to bottom** while all **horizontal braces (H20-25-30)** and **roll-bar frames (HD20-25-30)** are installed blocking the latch on the vertical tubes 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 the telescopic legs with wheels into the lower tube of the base shoulders [Fig.1],
2) Keeping the base upright in the vertical position, secure a horizontal brace (H20-25-30) to the vertical tube of the upright just above the first rung and allow the other end of the horizontal brace to rest on the ground,
3) Position the second vertical base upright, raise the horizontal brace off the ground and secure it to the vertical tube of the upright above the first rung,
4) In the same way, secure another horizontal brace on the opposite side,
5) Firmly block all the wheels with a firm downward movement of the foot on each of the wheel brake levers,
6) Secure two diagonal braces (D20-25-30), one on each side, so that they cross starting from the third rung of the base shoulder,
7) Adjust the height of the telescopic legs until you achieve perfect verticality. Check with a spirit level and/or a plumb-line (verticality must not exceed 1 degree) [Fig.2],
8) In order to avoid accidental movements, before climbing onto the scaffold always check that the brakes have been applied to the wheels, The use of suitable wedges is optional. [Fig.2].

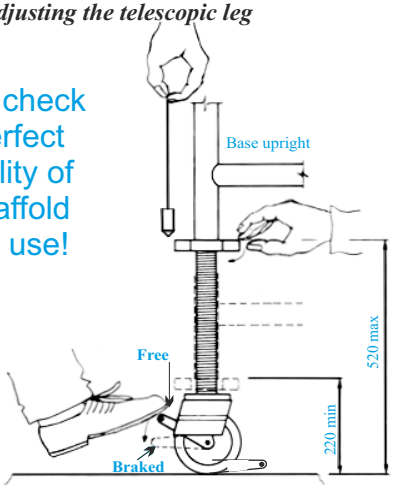
[Fig. 1]: ***Telescopic leg composition***



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

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

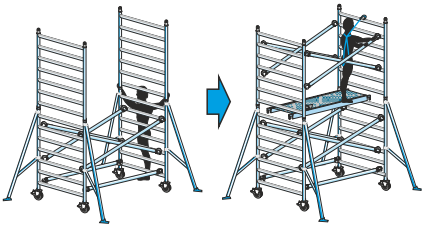
Always check the perfect verticality of the scaffold before use!



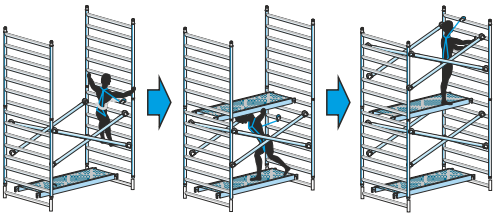
Working adjustment height: 30 cm.

ALUPONT F135 ASSEMBLY PROCEDURE - FS version

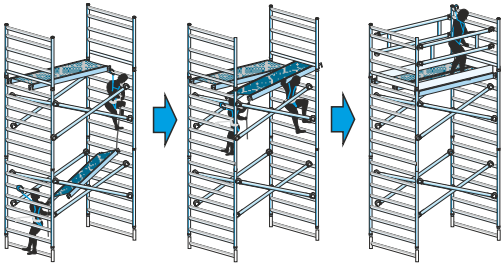
Upper sections



1) Remaining inside the structure, climb up the rungs of the vertical upright and secure the upper shoulder into place ensuring that you hear the locking pawls click into place (see P.S.A on page 15),
2) Repeat on the opposite side,
3) Install one work platform on the last rung of the base section in a central position and climb onto it through the trapdoor,
4) By firstly blocking the hook on the opposite side to the one that you are climbing up, secure four diagonal braces (D20-25-30), two on each side, crosswise, starting from the second rung of the upper shoulders,
5) Assemble the next pair of upper uprights as described in points 1 and 2,



6) Install a platform on the last rung of the current section in a central position (re-use the platform located at the lower level) (see R.P.F Page14),
7) Climb on to the work table through the trapdoor and secure four diagonal braces as described in point 4,
8) Repeat steps 5 to 7 until you have installed the terminal protection shoulders,



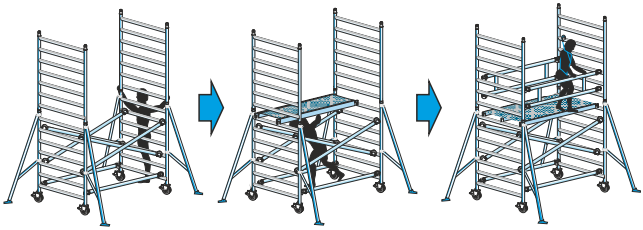
9) Install both platforms on the last rung of the current section, so that the opening side of the trapdoor is on the outside,
10) Manually remove the anti-lift devices positioned under the safety latches,
11) Climb onto the platform by means of the trapdoor and attach two anti-fall safety devices (HD20-25-30) (see M.S.P. page.15),
12) Complete the assembly of the platform by installing the complete toeboard (FTB20-25-30).

IMPORTANT - During the assembly and disassembly of this configuration:

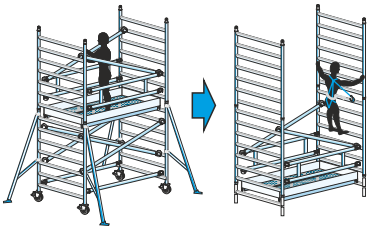
The operator must always be appropriately secured with suitable anti-fall safety system (CE compliant PPE) because this configuration does not provide for intermediate work tables and relevant roll-bar frames (HD20-25-30) unless these are not purchased separately.

ALUPONT F135 ASSEMBLY PROCEDURE - FHD version

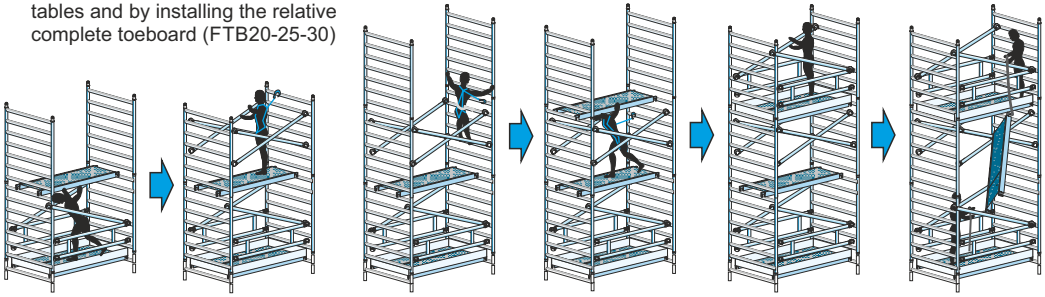
Upper sections



1) Remaining inside the structure, climb up the rungs of the vertical upright and secure the upper shoulder into place ensuring that you hear the locking pawls click into place (see P.S.A on page 15),
2) Repeat on the opposite side,
3) Install a work platform with trapdoor and one without on the last rung of the current section with the trapdoor side alternately (with respect to the position of a possible lower platform) and manually remove the anti-lift devices positioned under the safety latches.
(if necessary, re-use the work table and any anti-fall safety devices from the level below (see R.P.F. page 14)



4) Using the rungs, climb up on the inside through the trapdoor and secure the two ant-fall safety devices onto the vertical upright (HD20-25-30) (see M.S.P page 15),
5) Secure two diagonal braces (D20-25-30), one on each side, crosswise, starting from the second rung of the base shoulder,
6) Assemble the next pair of upper uprights as described in points 1 and 2,
7) Install one platform on the last rung of the current section in a central position,
8) Climb up onto the work table by means of the trapdoor and secure four diagonal braces (D20-25-30), two on each side, crosswise, starting from the second rung of the current section,
9) Repeat steps 1 to 8 until you have assembled the terminal uprights (B5) and the associated anti-fall safety devices (HD20-25-30) ,
10) Once the last platform has been assembled, ensure that the distance between each work table does not exceed the distance indicated in EN 1004: Not greater than 4.20 meters and no less than 2.10 meters,
11) If necessary, move the intermediate work platforms together with their guard rails as shown in the configuration on page 8 (see R.P.F. page.14),
12) Complete each work table by manually blocking the anti-wind/lifting devices under the safety latches on the work tables and by installing the relative complete toeboard (FTB20-25-30)



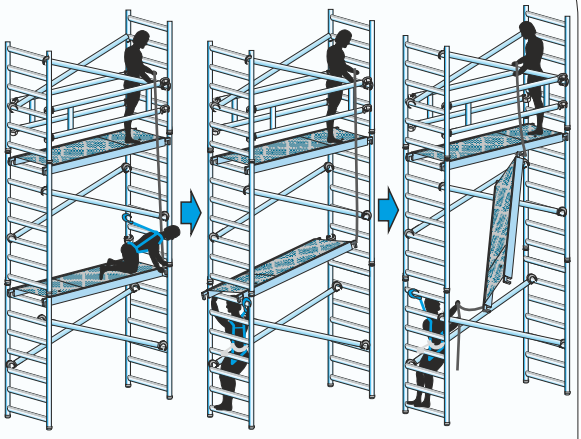
IMPORTANT - During the assembly and disassembly of this configuration

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).

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

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

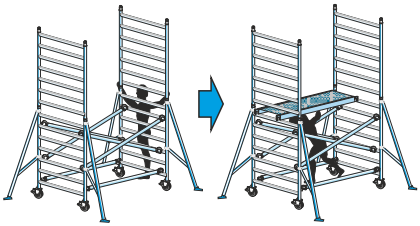
- The operator on the upper floor passes one end of the rope to the operator on the lower floor (appropriately secured with anti-fall device) who must first firmly secure the end of the rope to the end of the work table without trapdoor, then descend on the opposite side of the tower through the trapdoor 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.



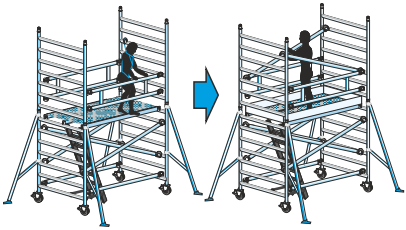
(The operation must be done while remaining within the structure and, where there are no platforms complete with guard rails, remaining appropriately secured to the same with EC standard PPE).

ALUPONT F135 ASSEMBLY PROCEDURE - FHM version

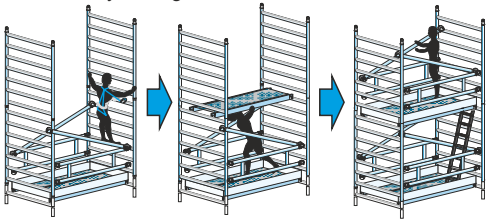
Upper sections



1) Remaining inside the structure, climb up the rungs of the vertical upright and secure the upper shoulder into place ensuring that you hear the locking pawls click into place (see P.S.A on page 15),
2) Repeat on the opposite side,
3) Install a work platform with trapdoor and one without on the last rung of the current section with the trapdoor facing the outside and manually remove the anti–wind/anti-lift devices under the safety latches,

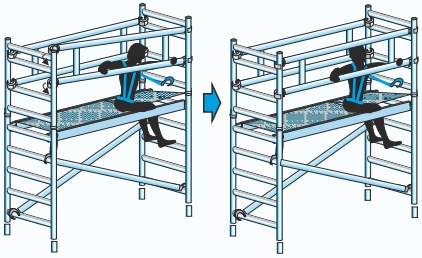


4) Install the internal service ladder by positioning the safety hooks on the 6th rung of the current section (only for the ladder on the base section, secure the support brackets by locking the latches the onto the first rung),
5) Using the internal service ladder, climb onto the work table through the trapdoor and secure two anti-fall safety devices onto the vertical tubes (HD20-25-30) (see M.S.P. page 15),
6) Complete the work table by adding the toeboard,



7) Stand up straight on the platform and secure two diagonal braces (D20-25-30) one on each side, crosswise, starting from the second rung of the upper shoulders,
8) Repeat steps 1 to 7 until you have assembled the terminal protection uprights (B5) and the terminal work table equipped with toeboard and appropriate anti-fall safety devices.

«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.

"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.

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

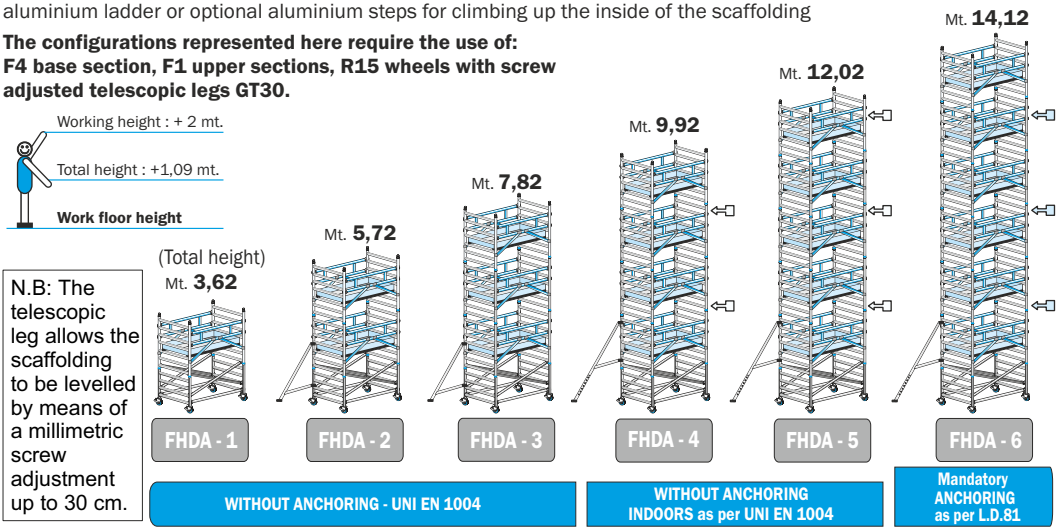
ALUPONT F/135 - FHDA Version (self elevating) Dimensions mt. 1,35x1,97 - 1,35x2,55

CODE		FHDA-1		FHDA-2		FHDA-3		FHDA-4		FHDA-5		FHDA-6	
Working height	M	4,22		6,32		8,42		10,52		12,62		14,72	
Overall Height	M	3,62		5,72		7,82		9,92		12,02		14,12	
Work floor height	**M**	**2,22**		**4,32**		**6,42**		**8,52**		**10,62**		**12,72**	
Width	M	1,35		1,35		1,35		1,35		1,35		1,35	
Length	M	1,97	2,55	1,97	2,55	1,97	2,55	1,97	2,55	1,97	2,55	1,97	2,55

CODE	DESCRIPTION	Kg.												
ALP MV F1 NF	Vertical upright m 2,1	9,6	2	2	4	4	6	6	8	8	10	10	12	12
ALP MP F4 NF	Vertical upright m 1,2	5,7	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		2	
ALP H25	Horizontal brace m 2,5	2,2		2		2		2		2		2		2
ALP D20	Diagonal brace m 2,0	1,9	4		4		4		4		4		4	
ALP D25	Diagonal brace m 2,5	2,3		4		4		4		4		4		4
ALP HD20A	Self-elevating guardrail frame	6,2	2		4		6		8		10		12	
ALP HD25A	Self-elevating guardrail frame	7,1		2		4		6		8		10		12
ALP GT30	Telescopic leg	1,6	4	4	4	4	4	4	4	4	4	4	4	4
ALP R15	Whells Ø150 mm.	3,2	4	4	4	4	4	4	4	4	4	4	4	4
ALP P20	Work platform 2,0	12,9	1		2		3		4		5		6	
ALP P25	Work platform 2,5	17,0		1		2		3		4		5		6
ALP PB20	Trapdoor work platform m 2,0	13,3	1		2		3		4		5		6	
ALP PB25	Trapdoor work platform m 2,5	17,4		1		2		3		4		5		6
ALP FTB20	Toeboard m 2,0	8,5	1		2		3		4		5		6	
ALP FTB25	Toeboard m 2,0	10,1		1		2		3		4		5		6
ALP ST1	Outrigger	4,9			4	4	4	4						
ALP ST3	Telescopic outrigger	5,7							4	4	4	4	4	4
TOTAL WEIGHT		**KG.**	**115**	**129**	**209**	**234**	**284**	**321**	**373**	**422**	**449**	**509**	**524**	**596**

As far as the **ALUPONT F135 – FHDA** version is concerned, it is possible to add an optional aluminium ladder or optional aluminium steps for climbing up the inside of the scaffolding

The configurations represented here require the use of:
F4 base section, F1 upper sections, R15 wheels with screw adjusted telescopic legs GT30.



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

ALUPONT F135 - FHDA 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

(⇦) Anchoring mandatory outdoors

WARNINGS FOR USE:

The configurations provided in this page permit non-anchored use

ALUPONT F135 - FHDA Version scaffolding remains UNI EN 1004 compliant; its construction features are identical to standard versions, with the only difference that it preserves No 2 H20-25 horizontal braces and No 4 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.

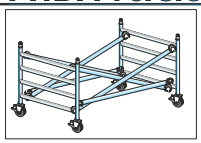
IMPORTANT - During the assembly and disassembly of this configuration

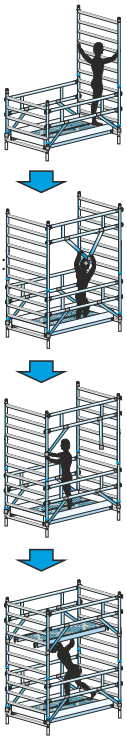
Each time the operator is not located on a table provided with regular (HD20-25-30) or self-elevating (HD20-25-30A) roll-bar frames and the distance between his feet and the lower platform is greater than mt. 2 a suitable anti-fall safety system must be used (CE compliant PPE) (See page 12).

ALUPONT F135 ASSEMBLY PROCEDURE - FHDA version

Base section

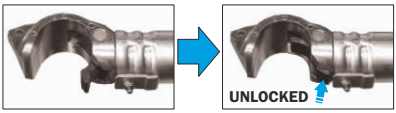
Assemble the base section as described on page 12 taking care to use MV F4 NF shoulders with 4 rungs as base uprights and securing the first n°4 diagonal braces from the first rung up.





Upper section

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),

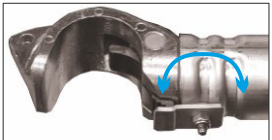


3) By positioning your hands on the 'V' end of the anti-fall safety system lift the element until the lower latches rest on the second rung of the upper shoulders, so that the latch is hooked from the inside towards the outside,
4) With a firm movement push the self-assembling anti–fall safety system 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 (FTB20-25),
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



FIXING AGAINST ACCIDENTAL RE-LOCK

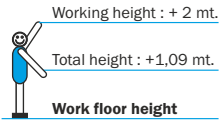
User configurations according to European Regulation EN 1004 with bidirectional ladder for the transport of bulky materials

ALUPONT F/135 - FTRSB Version (bidirectional service tower) Dimensions mt. 1,35x2,55

CODE		FTRSB-2	FTRSB-3	FTRSB-4	FTRSB-5	FTRSB-6
Working height	M	6,62	8,72	10,82	12,92	15,02
Overall Height	M	5,90	8,00	10,10	12,20	14,30
Work floor height	**M**	**4,62**	**6,72**	**8,82**	**10,92**	**13,02**
Width	M	1,35	1,35	1,35	1,35	1,35
Length	M	2,55	2,55	2,55	2,55	2,55

CODE	DESCRIPTION	Kg.					
ALP MV F1 NF	Vertical upright m 2,1	9,6	3	5	7	9	11
ALP MV F1AP	Open door vertical upright m 2,1	9,9	1	1	1	1	1
ALP MV F3 NF	Vertical upright m 1,5	7,1	2	2	2	2	2
ALP H25	Horizontal brace m 2,5	2,2	4	6	8	10	12
ALP D25	Diagonal brace m 2,5	2,3	2	2	2	2	2
ALP HD25	Guardrail frame m 2,5	5,1	2	2	2	2	2
ALP SCSE A+S	Service ladder with in-out platform m 2,5	21,0	2	3	4	5	6
ALP HDCI25	Esternal handrail for intermediate ladder m 2,5	7,4	1	2	3	4	5
ALP HDCT25	Esternal handrail for end ladder m 2,5	7,0	1	1	1	1	1
ALP HDSI	Internal ladder handrail m 2,5	3,1	1	2	3	4	5
ALP GT30	Telescopic leg	1,6	4	4	4	4	4
ALP R15	Whells Ø 150 mm.	3,2	4	4	4	4	4
ALP P25	Work platform m 2,5	17,0	1	1	1	1	1
ALP PB25S	Big trapdoor work platfrom m 2,5	23,5	1	1	1	1	1
ALP FTB25	Toeboard m 2,5	10,1	1	1	1	1	1
ALP ST1	Outrigger	4,9	4	4			
ALP ST3	Telescopic outrigger	5,7			4	4	4
TOTALI WEIGHT		**KG.**	**223**	**278**	**338**	**393**	**448**

The configurations represented here require the use of:
F1 base section with open hatch, F1 upper section, F3 protection sections and R15 wheels with telescopic legs and screw adjusting knob

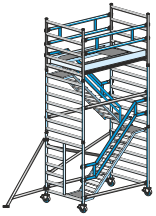


N.B: The telescopic leg allows the scaffolding to be levelled by means of a millimetric screw adjustment up to 30 cm.

(⇦) **Anchoring mandatory**
(⇦) **Anchoring mandatory outdoors**

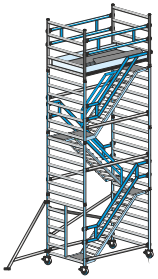
N.B. Before starting the assembly, check that you have all the correct elements as shown in the table above.

(Total height:) Mt. **5,90**



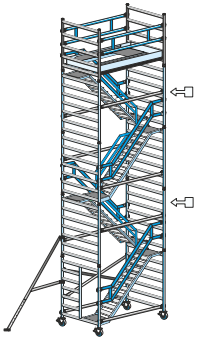
FTRSB-2

Mt. **8,00**



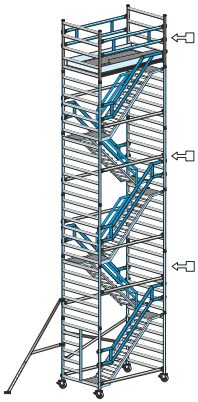
FTRSB-3

Mt. **10,10**



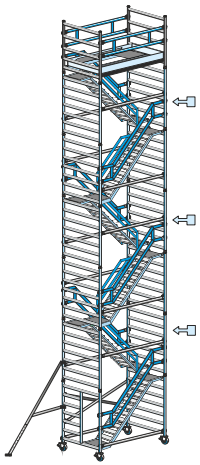
FTRSB-4

Mt. **12,20**



FTRSB-5

Mt. **14,30**



FTRSB-6

WITHOUT ANCHORING - UNI EN 1004

WITHOUT ANCHORING INDOORS as per UNI EN 1004

Mandatory ANCHORING as per L.D.81

INSTRUCTIONS FOR USE:

The configurations set out on this page allow for non-anchorage of the scaffold

The **ALUPONT F135 - FTRSB** version is compliant with **UNI EN 1004** and has the same construction characteristics of the standard version, except that all the intermediate work tables are replaced by internal service ladders to facilitate easy climbing from the inside, also when handling bulky materials.
The ladders are equipped with handrails for internal safety, while for external safety they are equipped with handrails made of aluminium, Ø 50.8 mm tubes for easy grip, which follow the profile of the ladder

The ALUPONT F135 - FTRSB version must be anchored when:

- the tower is not equipped with all the internal service ladders shown in the configurations in the table page.18.
- the tower is not equipped with stabilizer brackets shown in the configurations in the table page. 18.
- the wind exceeds the minimum perceptible breeze.
- the scaffolding is left unattended. Wherever possible work towers used outside buildings must be fixed securely to the building or another fixed structure.

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 F135 ASSEMBLY PROCEDURE - FTRSB version

Base section

1) Insert the wheels with telescopic legs into the base vertical uprights (F1) and in the base vertical upright with an opening (F1AP) (See Fig.2 on page. 12.)
2) Secure two horizontal braces (H25) above the 1st rung of the base vertical uprights, locking the hooking latch onto the vertical tube from the inside out, as shown in the drawing.
3) On the opposite side with respect to the passage door, secure two diagonal braces (D25) crosswise from the 2nd rung of the base vertical upright by locking the hooking latches on to the rung with a downwards movement.
4) Install the internal ladder from the 1st rung of the base section by the passage door.
5) Hook the base stabilizer brackets/extenders and position them in a suitable way (see page. 4. and 5.)
6) Using a spirit level ensure that the vertical angle does not exceed 1 degree and then apply brakes to all the wheels.

Upper section

1) Remaining inside the structure, climb up the rungs of the vertical upright and secure the upper shoulder into place ensuring that you hear the locking pawls click into place (see P.S.A on page 15),
2) Repeat on the opposite side,
3) Install the intermediate ladder handrail (HDCI25) on the outside of the ladder locking the latches onto the vertical tube from the inside to the outside and resting the lower latch on the 2nd rung of the current section,
4) Use the service ladder to climb up to the upper section and secure a horizontal brace (H25) above the 4th rung of the upper vertical upright and a horizontal brace (H25) to the opposite side above the 1st rung of the upper vertical upright, locking the latch onto the vertical tube from the inside out so that they do not interfere with the ladder's handrail,
5) Install the internal ladder in inverted position with respect to the lower ladder, resting the lower landing on the 1st cross bar of the current section and the upper landing on the last cross bar of the current section,
6) Now install the internal handrail onto the inside of the ladder locking it in place with the clamps,
7) Repeat steps 1 to 6 until you have installed both upper vertical uprights (F3).

Terminal section

1) Install the upper platform without trapdoor (on the opposite side to the door) onto the first rung of the upper section. Install the platform with large trapdoor (by the terminal ladder) so that the trapdoor opens onto the external side of the scaffold. Then remove the anti-wind/lift devices located under the hooks,
4) Install the terminal ladder handrail (HDCT25) on the outside of the ladder locking the latches onto the vertical tube from the inside to the outside and resting the lower latch on the 2nd rung of the current section,
5) Using the service ladder, climb up to the level above by way of the large trapdoor and hook the upper safety devices (HD20-25-30) onto the vertical tube of both the external sides of the scaffold (see M.S.P. page.15),
4) Complete the assembly of the terminal platform by installing the toeboards.

User configurations according to European Regulation EN 1004 with unidirectional ladder for the transport of bulky materials

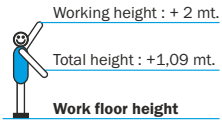
ALUPONT F/135 - FTRSU Version (unidirectional service tower) Dimensions mt. 1,35x2,55

CODE		FTRSB-2	FTRSB-3	FTRSB-4	FTRSB-5	FTRSB-6
Working height	M	6,62	8,72	10,82	12,92	15,02
Overall Height	M	5,90	8,00	10,10	12,20	14,30
Work floor height	**M**	**4,62**	**6,72**	**8,82**	**10,92**	**13,02**
Width	M	1,35	1,35	1,35	1,35	1,35
Length	M	2,55	2,55	2,55	2,55	2,55

CODE	DESCRIPTION	Kg.					
ALP MV F1 NF	Vertical upright m 2,1	9,6	3	5	7	9	11
ALP MV F1AP	Open door vertical upright m 2,1	9,9	1	1	1	1	1
ALP MV F3 NF	Vertical upright m 1,5	7,1	2	2	2	2	2
ALP H25	Horizontal brace m 2,5	2,2	2	2	2	2	2
ALP D25	Diagonal brace m 2,5	2,3	3	4	5	6	7
ALP HD25	Guardrail frame m 2,5	5,1	3	4	5	6	7
ALP SCSE A+S	Service ladder with in-out platform m 2,5	21,0	2	3	4	5	6
ALP HDCI25	Esternal handrail for intermediate ladder m 2,5	7,4	1	2	3	4	5
ALP HDCT25	Esternal handrail for end ladder m 2,5	7,0	1	1	1	1	1
ALP GT30	Telescopic leg	1,6	4	4	4	4	4
ALP R15	Whells Ø 150 mm.	3,2	4	4	4	4	4
ALP P25	Work platform m 2,5	17,0	2	3	4	5	6
ALP PB25S	Big trapdoor work platfrom m 2,5	23,5	1	1	1	1	1
ALP FTB25	Toeboard m 2,5	10,1	1	1	1	1	1
ALP ST1	Outrigger	4,9	4	4			
ALP ST3	Telescopic outrigger	5,7			4	4	4
TOTALI WEIGHT		**KG.**	**239**	**311**	**397**	**469**	**541**

The configurations represented here require the use of:
F1 base section with open hatch, F1 upper section, F3 protection sections and R15 wheels with telescopic legs and screw adjusting knob

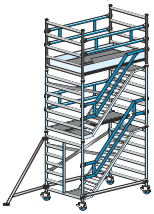
N.B: The telescopic leg allows the scaffolding to be levelled by means of a millimetric screw adjustment up to 30 cm.



(⇦) **Anchoring mandatory**
(⇦) **Anchoring mandatory outdoors**

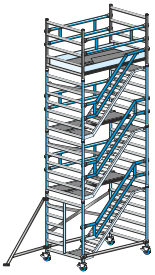
N.B. Before starting the assembly, check that you have all the correct elements as shown in the table above.

(Total height:)
Mt. **5,90**



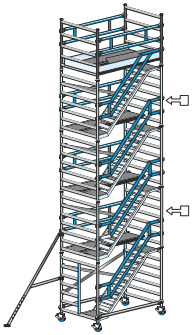
FTRSU-2

Mt. **8,00**



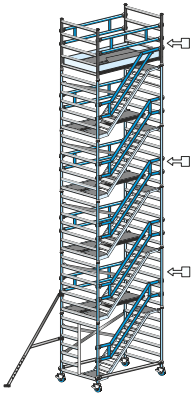
FTRSU-3

Mt. **10,10**



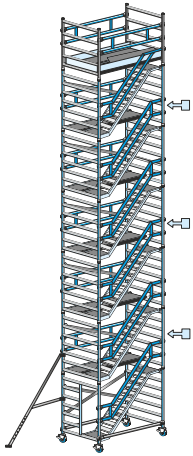
FTRSU-4

Mt. **12,20**



FTRSU-5

Mt. **14,30**



FTRSU-6

WITHOUT ANCHORING - UNI EN 1004

WITHOUT ANCHORING INDOORS as per UNI EN 1004

Mandatory ANCHORING as per L.D.81

INSTRUCTIONS FOR USE:

The configurations set out on this page allow for non-anchorage of the scaffold

The **ALUPONT F135 - FTRSU** version is compliant with **UNI EN 1004** and has the same construction characteristics of the standard version, except that all the intermediate work tables are replaced by internal service ladders to facilitate easy climbing from the inside, also when handling bulky materials.
The ladders are equipped with handrails for internal safety, while for external safety they are equipped with handrails made of aluminium, Ø 50.8 mm tubes for easy grip, which follow the profile of the ladder

The ALUPONT F135 - FTRSB version must be anchored when:

- the tower is not equipped with all the internal service ladders shown in the configurations in the table page.18.
- the tower is not equipped with stabilizer brackets shown in the configurations in the table page. 18.
- the wind exceeds the minimum perceptible breeze.
- the scaffolding is left unattended. Wherever possible work towers used outside buildings must be fixed securely to the building or another fixed structure.

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 F135 ASSEMBLY PROCEDURE - FTRSU version

Base section

1) Insert the wheels with telescopic legs into the base vertical uprights (F1) and in the base vertical upright with an opening (F1AP) (See Fig.2 on page. 12.),
2) Secure two horizontal braces (H25) above the 1st rung of the base vertical uprights, locking the hooking latch onto the vertical tube from the inside out,
3) On the opposite side to the passage door, secure two diagonal braces (D25) crosswise from the 2nd rung of the base vertical upright, locking the hooking latches on to the rung with a downwards movement,
4) Install the internal ladder starting from the 1st rung of the base section by the passage door,
5) Hook the base stabilizer brackets/extenders and position them in a suitable way (see page. 4. and 5.),
6) Using a spirit level ensure that the vertical angle does not exceed 1 degree and then apply brakes to all the wheels.

Upper section

1) Remaining inside the structure, climb up the rungs of the vertical upright and secure the upper shoulder into place ensuring that you hear the locking pawls click into place (see P.S.A on page 15),
2) Repeat on the opposite side,
3) Install the upper work platform without trapdoor onto the first rung of the upper section, on the opposite side to the passage door and manually remove the anti-wind/lift devices located under the hooks,
4) Install the terminal ladder handrail (HDCI25) on the outside of the ladder locking the latches onto the vertical tube from the inside to the outside and resting the lower latch on the 2nd rung of the current section,
5) Using the service ladder, climb up to the level above and hook the upper safety devices (HD20-25-30) onto the vertical tube of the external side of the scaffold (see M.S.P. page.15),
6) Secure one diagonal brace (D20-25-30) inside the anti-fall safety system starting from the 3rd rung of the current section, crosswise from the ladder,
7) Install the internal ladder on the same side and in the same direction as the lower ladder, resting the lower landing onto the 1st cross bar and the upper landing on the last cross bar on the current section,
8) Repeat steps 1 to 7 until you have installed the terminal safety uprights.

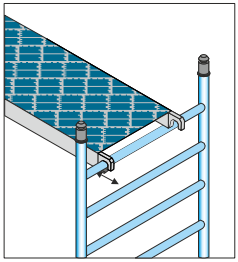
Terminal section

1) Install the upper work platform without trapdoor (on the opposite side to the door) onto the first rung of the upper section. Install the platform with large trapdoor (by the terminal ladder) so that the trapdoor opens onto the external side of the scaffold. Then remove the anti-wind/lift devices located under the hooks,
2) Install the terminal ladder handrail (HDCT25) on the outside of the ladder by locking the latches onto the vertical tube from the inside to the outside and resting the lower latch on the 2nd rung of the current section,
3) Using the service ladder, climb up to the level above by way of the large trapdoor and hook the upper safety devices (HD20-25-30) onto the vertical tube of both the external sides of the scaffold (see M.S.P. page.15),
4) Complete the assembly of the terminal platform by installing the toe-boards.

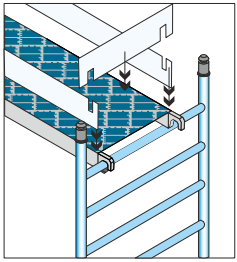
Work tables and Service tables

- 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



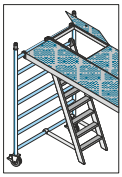
Toeboard assembly

- 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.

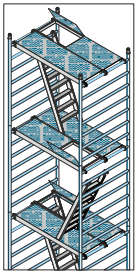
Service ladders

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.

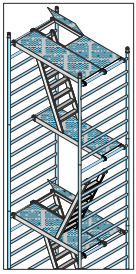
- Service ladders can only be mounted internally.
- While the starting ladder must always remain raised from the ground (through the appropriate arms) all the upper ladders must rest on the work table.
- Like work tables, ladders must also be mounted alternately in correspondence to trapdoor openings.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



Lower ladder with support brackets



ALP FHM configuration with work tables and ladder every 2.10 meters



ALP FHD configuration with work tables every 4.10 meters.

ALP FS configuration with ladders next to the service tables

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.

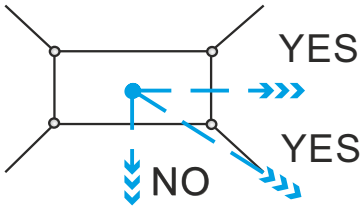
IT IS FORBIDDEN TO REMOVE MORE THAN ONE DIAGONAL BELONGING TO THE SAME SECTION SIMULTANEOUSLY

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.

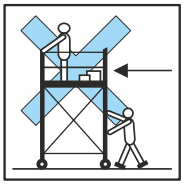
Move instructions



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.

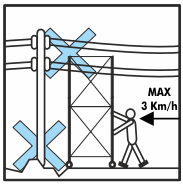


Mobile work towers can only be moved manually

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.

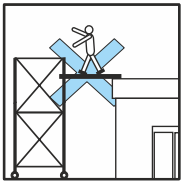
Standard walking speed should not be exceeded during movement.

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.



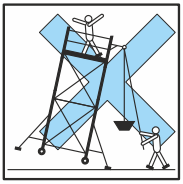
The surface on which the scaffolding is moved must be capable of supporting its weight. Brake and stabilise the scaffolding after each movement. Also check the verticality.

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

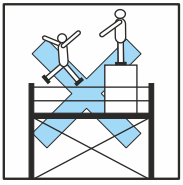


Jumping on platforms is prohibited.

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.



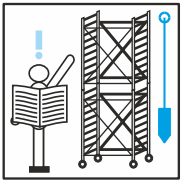
ALUPONT B-74 DISMANTLING PROCEDURE - All versions

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

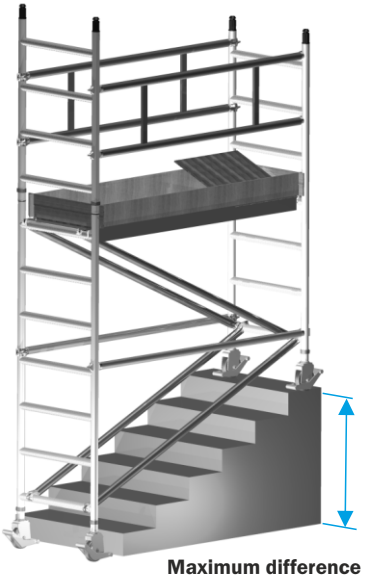
The ALUPONT F135 mobile work tower, in all its configurations shown in this booklet (with the exception of the ALP FTRS version) can be used on stairs, on steep inclines or on very uneven ground, which could not be climbed with the normal use of ALP GT30 telescopic legs.

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 n°4 steps, which corresponds to 1,20 m + 0.30 m of adjustment of the telescopic legs,

N.B. For each configuration described in this booklet, the ALUPONT F135 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 F1 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.

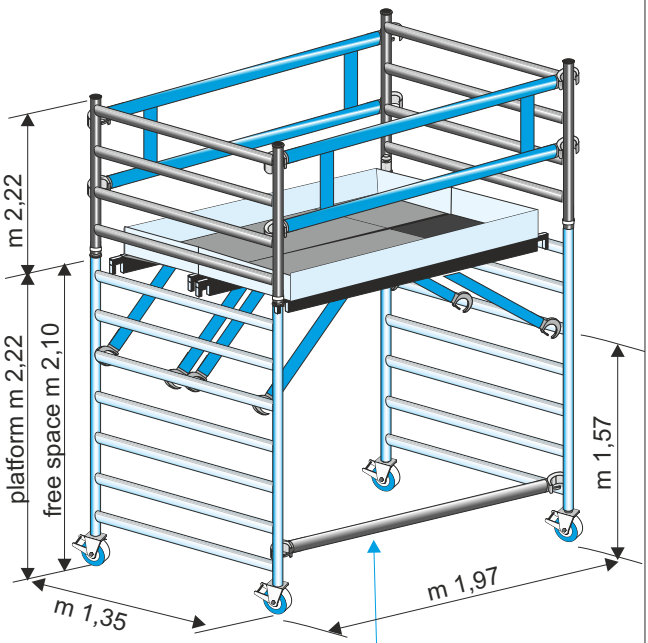
Work tables with “GRAN LUCE” system are ideal for ALUPONT F135 configurations which do not exceed 2.22 meters from the ground.

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 FHD/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 FHD20-1 (mt. 1,97) with Gran Luce platform			
CODE	**description**	**Weight kg**	**n°**
ALP MV F1 NF	Vertical upright a 7 steps	9,6	2
ALP MP F5 NF	Protection upright	4,7	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	2
ALP FTB20	Whood toeboard	8,5	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 F135 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 FHD , FHDA , FHM and FTRS 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 /1926 issued in Milan on 16/06/2000.

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

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Repair date	Type of repair			Name of the person performing the repair		Signature

Frigerio® S.p.A. CARPENTERIE

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