Shoring Tower A120



SAFETY | PERFORI

PERFORMANCE

COMPLIANCE

THE SHORING TOWER WITH SAFETY FEATURES





Shoring Tower A120

Alphi shoring towers satisfy the needs of all types of projects: the **A120 tower** is an effective solution for user safety; **low towers** are available for specific requirements.

As recommended in the CRAMIF NT24 guidelines, the A120 tower can be assembled and disassembled in **complete safety**, limiting the risks of falls from height.

Site: La Cartoucherie -Car park Client: Eiffage Location: Toulouse

Compliant With the guidelines Of cramif Technical Report No. 24

SAFETY

- Safe assembly from the lower level.
- Built-in safety features.
- No connectors between ladder frames.

Compliant with the guidelines of CRAMIF technical report No. 24

- This technical report concerns ladder shoring towers and other shoring towers from 2.50 to 6 m tall.
- Its aim is to improve this equipment and therefore also user safety.

The guidelines concern limiting:

- falls from heights,
- repetitive strain injury,
- falls at ground level,
- towers collapsing or tipping,
- handling and manoeuvring.





ADAPTABILITY

- The A120 tower exists in three sizes: 120x130 - 120x160 -120x220 cm.
- It can be used with TopDalle formwork, with Alto formwork decks, and with the whole range of Alphi beams (AL200, AL100, H20).



PERFORMANCE

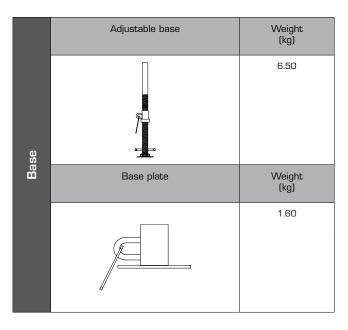
- Allowable load of 30 kN/foot.
- Can be handled with a crane.

A120 tower

COMPONENTS

	Guardrail	Dimensions (m)	Weight (kg)	Description
		0.75 x 1.60	8.36	 For 1.00 m ladder
ò	Access guardrail	Dimensions (m)	Weight (kg)	Description
Central structure		1.25 x 1.60	6.40	 For 1.50 m ladder
	Ladder	Height (m)	Weight (kg)	Description
		1.00	16.50	• 4 rungs
		1.50	24.30	• 6 rungs

	Deck with trapdoor	Dimensions (m)	Weight (kg)	Description
Decks		0.52 x 1.60	14.49	 Aluminium and timber floor
	Deck without trapdoor	Dimensions (m)	Weight (kg)	Description
		0.50 x 1.60	13.40	 Steel floor



	2-inlet adjustable fork	Weight (kg)
		7.56
	Intermediate head jack	Weight (kg)
Head		2.91
	Slide 1.50 m	Weight (kg)
		6.50

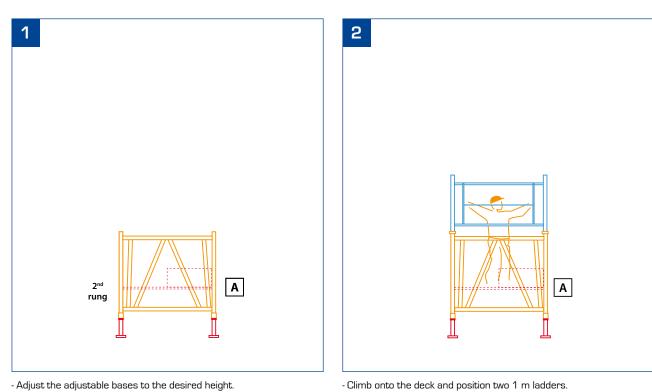
Intermediate base jack	Weight (kg)	
	2.84	
Slide 1.50 m	Weight (kg)	
	6.50	

A120 TOWER ACCESSORIES

	Clinch-fit beam guardrail	Dimension (m)	Weight Description (kg)		
		1.60	4.00	Fixed guardrail	
	7	1.20	4.00	 Component with hook 	
		1.20	4.00	 Offset component with hook 	
	Skin clamp	Weight (kg)	Description		
Safety	-	3.00	 Stabilising clamp for use with 48 mm tube and collars 		
	Tower clamp	Weight (kg)	Description		
		3.50	 Used to secure the tower to a skin Has a safety hook 		
	Dywidag form panel hole clamp	Weight (kg)	Description		
	A	3.00 • The loop is used either to sta a riser, or to receive a tube i holding multiple risers		ceive a tube for	

	Shifting trolley with rack	Dimensions (m)	Weight (kg)	Description
Handling		1.60 x 0.98 x 1.19	85.40	 Can be used to move towers without disassembly

SAFE ASSEMBLY AND LINKING

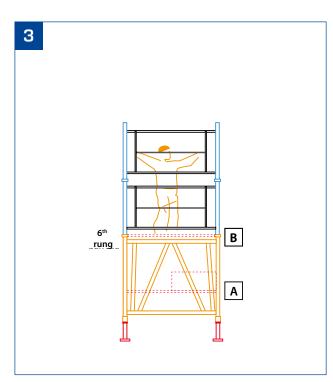


- Fit the two guardrails.

- Adjust the adjustable bases to the desired height.

- Join the adjustable bases to the 1.50 m ladder.

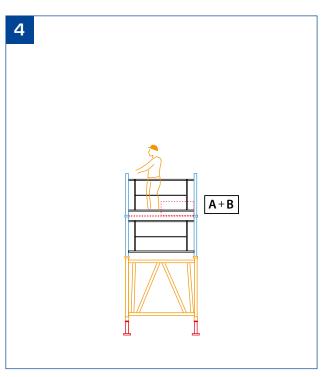
Link the 1.50 m ladders to the access guardrail or cross-members.
 Position a deck with trapdoor on the 2nd rung of the 1.50 m ladder.



- Position a deck without trapdoor on the $6^{\mbox{\tiny th}}$ rung of the 1.50 m ladder. - Assemble the lower deck at the same level as the deck without trapdoor

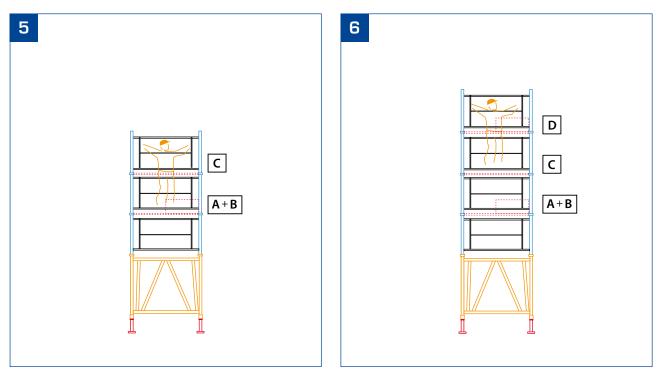
to create a work surface.

- Position the two 1 m ladders and fit the two guardrails.



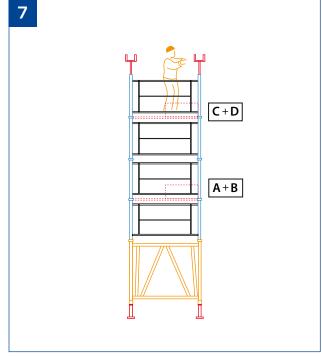
- Assemble the two decks A and B on the final rung of the $2^{\mbox{\tiny nd}}$ ladder, i.e. 1 m higher.

SAFE ASSEMBLY AND LINKING



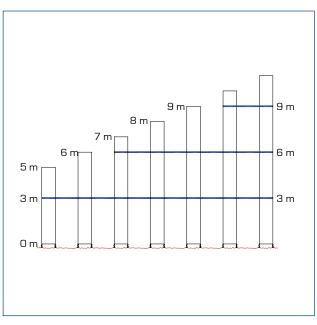
- Assemble the two 1 m ladders and the two guardrails. - Assemble the deck without trapdoor C on the final rung of the $3^{\rm rd}$ ladder.

- Climb onto the deck C and position the next ladders and guardrails. - Assemble the deck with trapdoor D on the final rung of the $4^{\rm th}$ ladder.



- Reassemble the deck C at the same level as the deck D to create a work surface.
- Assemble the 2-inlet adjustable forks and the beams to finalise the tower assembly.

LINKING



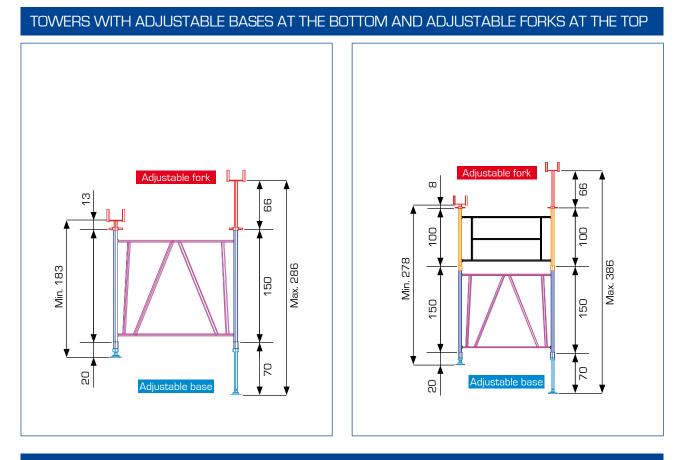
- From 5 metres and above, towers must be cross-braced by a planar linkage every 3 metres in height, with Ø 48.3 tubes and fixed Ø 49/60 scaffolding collars.

COMPOSITION CHARTS

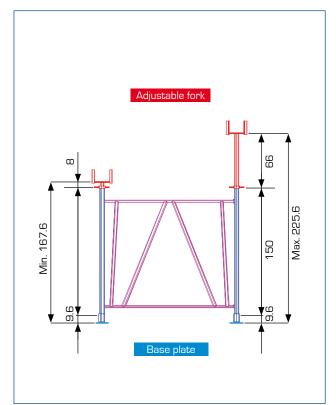
	Height at bottom of fork min max. (cm)	183 - 286	278 - 386	378 - 486	478 - 586	578 - 686	
ε	Component	Guantity					
otto	Adjustable base	4	4	4	4	4	
the bottom e top	Ladder 1.50 m	2	2	2	2	2	
at th	Ladder 1.00 m	0	2	4	6	8	
le bases forks at	Access guardrail 1.60 x 1.25 m	2	2	2	2	2	
fc	Guardrail 1.60 m	0	2	4	6	8	
adjustable Ijustable fc	S-pin	0	4	8	12	16	
	Adjustable fork	4	4	4	4	4	
s witl and	½ single plank	1	1	1	2	2	
Towers with and a	½ plank with trapdoor	0	0	1	1	2	
-0		Weight (kg)					
	Weight of a basic steel tower measuring 1.20 x 1.60 m	129.00	180.00	231.00	281.00	332.00	

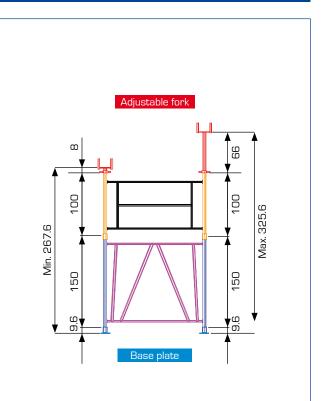
	Height at bottom of fork min max. (cm)	168 - 226	268 - 326	468 - 526	468 - 526	568 - 626
	Component	Quantity				
mo	Adjustable base	4	4	4	4	4
bottom top	Ladder 1.50 m	2	2	2	2	2
t the t the	Ladder 1.00 m	0	2	4	6	8
es at ks at	Access guardrail 1.60 x 1.25 m	2	2	2	2	2
plates e forks	Guardrail 1.60 m	0	2	4	6	8
with base p adjustable	S-pin	0	4	8	12	16
with adjus	Adjustable fork	4	4	4	4	4
Towers v and	½ single plank	1	1	1	2	2
Tow	½ plank with trapdoor	0	0	1	1	2
		Weight (kg)				
	Weight of a basic steel tower measuring 1.20 x 1.60 m	109.00	159.00	210.00	261.00	312.00

EFFECTIVE DIMENSIONS: EXAMPLES OF CONFIGURATION

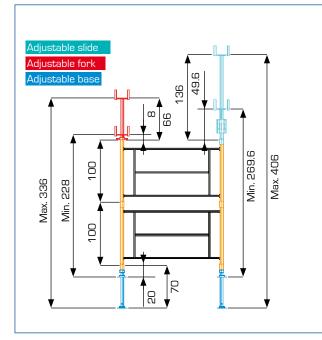


TOWERS WITH BASE PLATES AT THE BOTTOM AND ADJUSTABLE FORKS AT THE TOP

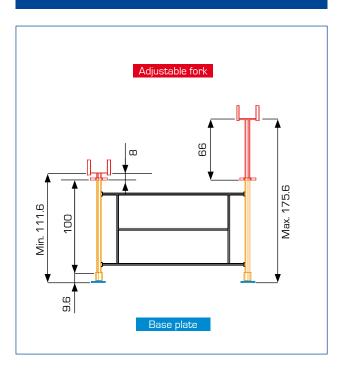




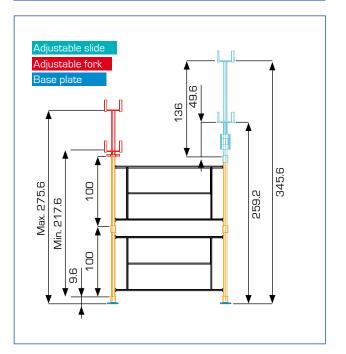
LOW TOWERS WITH ADJUSTABLE BASES AT THE BOTTOM AND ADJUSTABLE FORKS AND SLIDES AT THE TOP



LOW TOWERS WITH BASE PLATES AT THE BOTTOM AND ADJUSTABLE FORKS AT THE TOP



LOW TOWERS WITH BASE PLATES AT THE BOTTOM AND ADJUSTABLE FORKS AND SLIDES AT THE TOP



NB:

- If access to the inside of the tower is necessary, the lower part can be equipped with access points.
- Dimension (cm)

ALPHI, THE FRENCH SHORING SPECIALIST



The A120 tower is a shoring tower that can be assembled and disassembled in complete safety. High-performance, it allows a load of 3 tonnes/foot.

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Designed in France