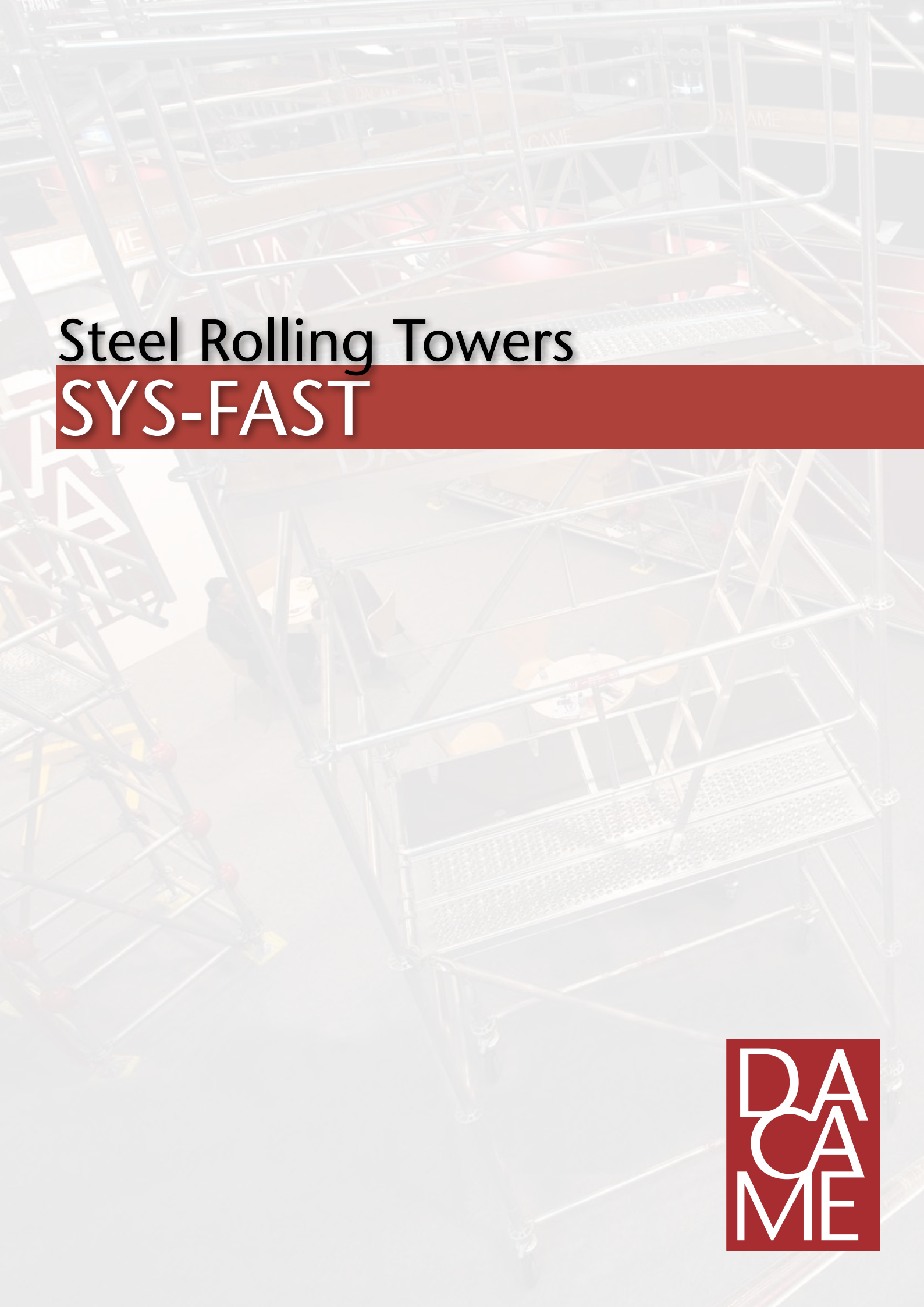


Steel Rolling Towers
SYS-FAST

SYS-FAST

STEEL ROLLING TOWERS

The rolling towers system SYS-FAST is characterized by offering all the advantages of the modular scaffolding system and it is fully compatible with this system, too. It also has a wide range of high-strength and low weighted frames.

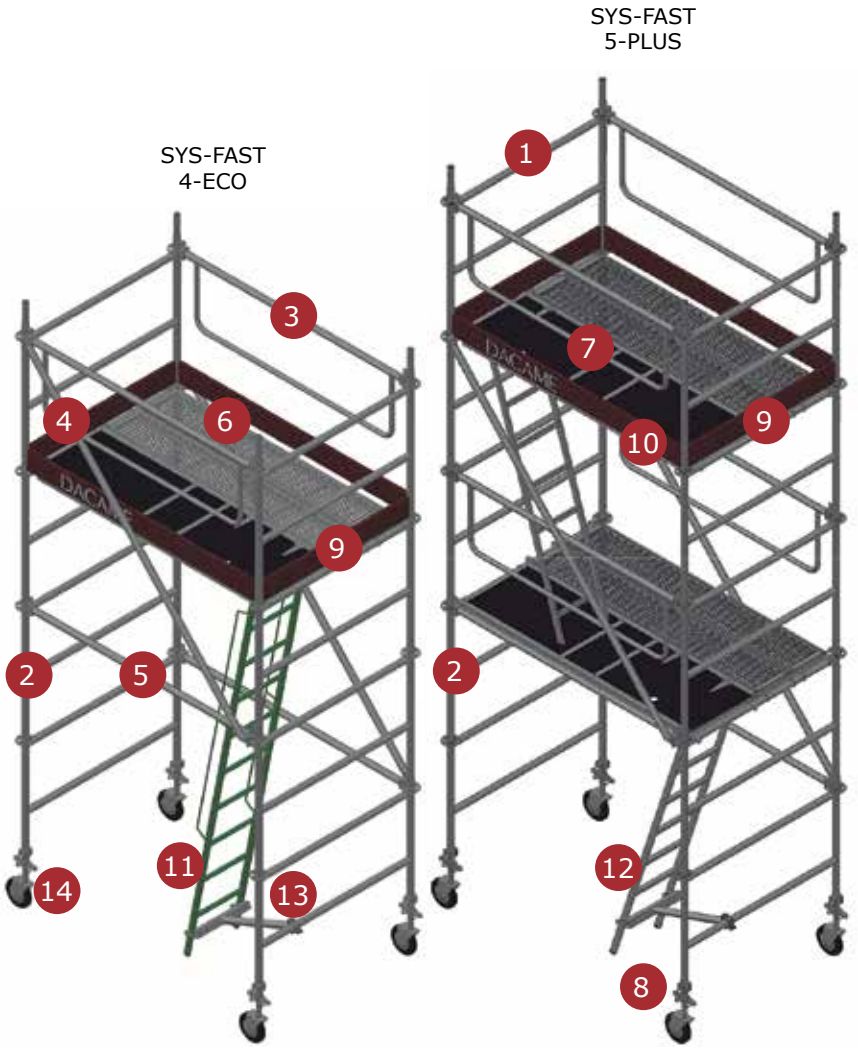
The main characteristics are:

- Excellent balance between weight and performance. Frames manufactured with structural steel tube Ø 48 mm in diameter, with ledgers every 50 cm.
- Simplicity and speed when assembling. A reduced number of references facilitate the understanding of the system keeping versatility to adapt to any working height. The connexion of the ledgers and the diagonals to the frames provides rigidity and versatility to the system.
- Security guaranteed by the implementation of the existing standards EN1004 and EN 1298 for rolling towers.

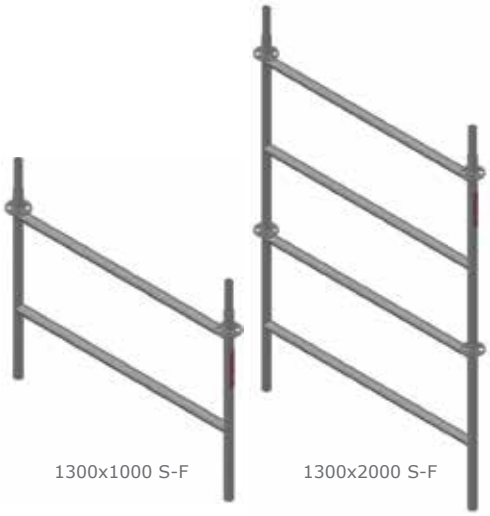
NOMENCLATURE

IDENTIFYING THE COMPONENTS:

1.- SCAFFOLD FRAME M48 1300X1000 S-F
2.- SCAFFOLD FRAME M48 1300X2000 S-F
3.- STANDARD GUARDRAIL M48 2000 (GA)
4.- DIAGONAL M48 2000X2000 (GA) S-F
5.- LEDGER M48 2000 (GA) S-F
6.- FIXED PLANK M48/D48 2000 C-4 (GA)
7.- ACCESS PLANK M48/D48 2000 (WD/AL)
8.- SCREW JACK HOLDER
9.- TOEBOARD M48/D48 1300 (WD)
10.- TOEBOARD M48/D48 2000 (WD)
11.- LADDER WITH HOOKS B 3000
12.- ACCESS LADDER (AL)
13.- LADDER SUPPORT (GA)
14.- CASTER HE 250 KG (Ø 36)

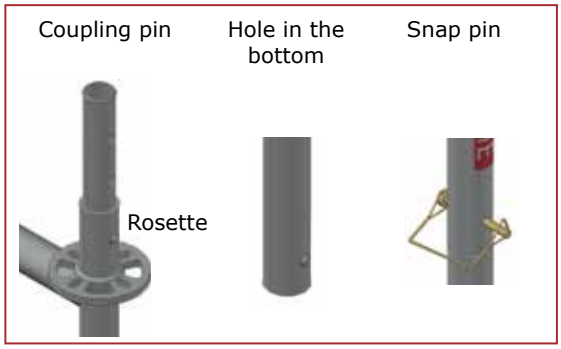


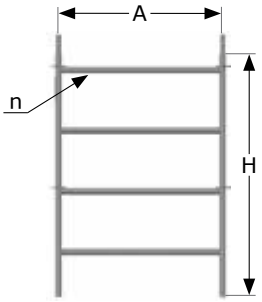
FRAMES



Round tube Ø 48 mm steel uprights available in 135 cm width. Ledgers every 50 cm provide system versatility in the height of the platforms. Available in the following heights: 1 m and 2 m. They have rosettes for connecting the ledgers and the diagonals of the modular scaffolding MEKA 48 every meter as well as a galvanized snap pin.

Hot dip galvanized, minimum thickness of 75 microns.





Description	Width A (m)	Height H (m)	Crossbar (n)	Weight (kg)	Part No.
SCAFFOLD FRAME M48 1300X1000 S-F	1,3	1	2	11,8	212213100
SCAFFOLD FRAME M48 1300X2000 S-F	1,3	2	4	22,7	212213200
SNAP PIN	-	-	-	0,08	070300001

STANDARD GUARDRAILS

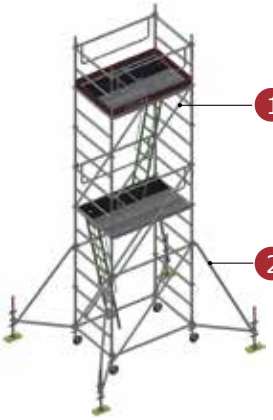
Manufactured with Ø 48 mm pipe, they save time in the assembly and the weight. Protection bar to 0, 5 m by a Ø 25 mm pipe.

Hot dip galvanized, minimum thickness of 75 microns.

Description	Weight (kg)	Length (m)	Part No.
STANDARD GUARDRAIL M48 2000 (GA)	7,9	2,0	211720200
STANDARD GUARDRAIL M48 3000 (GA)	11,2	3,0	211720300

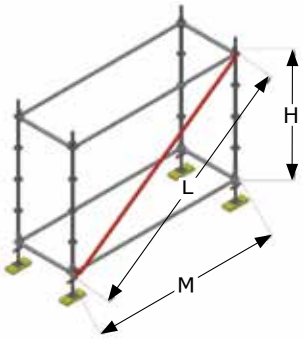
DIAGONAL BRACES

Manufactured with Ø 48 mm pipe, they have articulated locks on both ends. They full-fill the function of bracing the frames and they also act as stabilizers in very high towers. Hot dip galvanized.



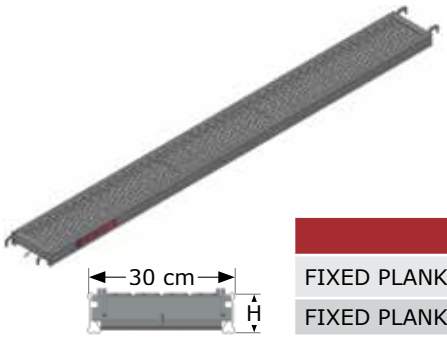
1. Diagonal brace 2000 x 2000 for bracing the frames.

2. Diagonal brace 2000 x 1300 as stabilizer.

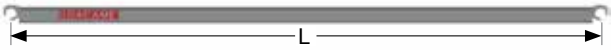


Description	H (m)	M (m)	Weight (kg)	Length (m)	Part No.
DIAGONAL M48 2000x1000 (GA) S-F	2,0	1,0	7,1	2,21	210320102
DIAGONAL M48 2000x1300 (GA) S-F	2,0	1,3	7,4	2,34	210320132
DIAGONAL M48 2000x2000 (GA) S-F	2,0	2,0	8,5	2,75	210320202
DIAGONAL M48 2000x3000 (GA) S-F	2,0	3,0	10,4	3,50	210320302

FIXED STEEL PLANKS

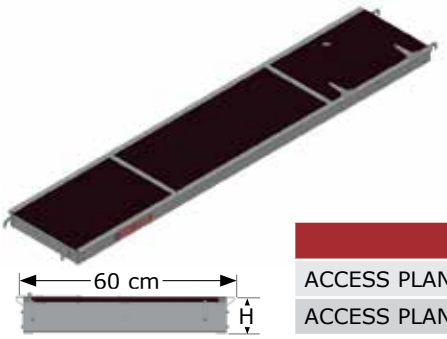


Planks manufactured in accordance with the EN 12811 standards. An extremely resistant perforated working surface manufactured with anti-slip grooves. The 2 welded tubes make them easy to handle. Width: 30 cm. Hot dip galvanized and with a minimum thickness of 75 microns. They comply with the 12810-2 fall arrest system requirements.



Description	H (cm)	C kg/m²)	Weight (kg)	Length (m)	Part No.
FIXED PLANK M48/D48 2000 C-4 (GA)	7	300	11,0	2,0	210530200
FIXED PLANK M48/D48 3000 C-4 (GA)	7	300	16,0	3,0	210530300

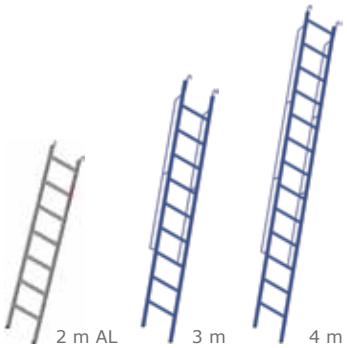
ACCESS PLANKS



Planks manufactured in accordance with the EN 12811 standards. Frame made of structural aluminium. A working area made of 12 mm thickness, damp-proof and anti-slip board.

Description	H (cm)	C kg/m²)	Weight (kg)	Length (m)	Part No.
ACCESS PLANK M48/D48 2000 (MD/AL)	10	300	18	2,0	210600200
ACCESS PLANK M48/D48 3000 (MD/AL)	10	300	26	3,0	210600300

ACCESS LADDERS



2 m ladders manufactured with 6061 aluminium.
3 m and 4 m ladders manufactured with steel with an epoxi finishing.

- Manufactured in accordance with EN 131-1 and 2 standards.
- Hooks on the upper end and anti-slip feet below.
- Step width: 40 cm.

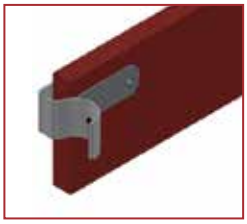
Description	Weight (kg)	Length (m)	Part No.
ACCESS LADDER (AL)	3,4	2,06	240920000
LADDER WITH HOOKS AND RAILINGS B 3000	16,1	3	050213505
LADDER WITH HOOKS AND RAILINGS B 4000	22,5	4	050214005

ACCESS LADDER SUPPORT

It allows the first access ladder to be properly inclined without the need of steel planks. It is connected to the ledger using a Ø 48 mm clamp. Hot dip galvanized, minimum thickness of 75 microns.

Description	Weight (kg)	Width (cm)	Part No.
LADDER SUPPORT (GA)	4,5	40	212390010

TOEBOARDS



Designed to complete the side protection (guardrail).
Made of anti-humidity wood.
Metal clamps on both ends.
15 cm protective height.

Description	Weight (kg)	Length (m)	Part No.
TOEBOARD M48/D48 1300 (WD)	3,1	1,3	210800130
TOEBOARD M48/D48 2000 (WD)	4,5	2,0	210800200
TOEBOARD M48/D48 3000 (WD)	6,7	3,0	210800300

SCREW JACK CASTERS AND SCREW JACK BASE

Swivel casters with a brake system, available for different load capacities. The screw jack base 1.0 m with 2 levers is used for stabilizing towers, mainly combined with brackets or stabilizers composed by a base collar, a ledger and a diagonal brace.
Cold galvanized.

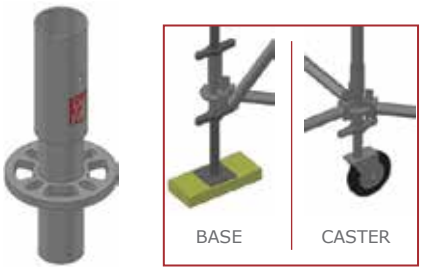
Description	Weight (kg)	Max. Reg. (cm)	Part No.
CASTER HE 250 kg (Ø 36)	7,7	50	025000200
CASTER HR 750 kg Nylon (Ø 38)	5,6	50	025000210
SCREW JACK BASE Ø 36 (1000) 2 levers	4,8	100	025020118

SCREW JACK HOLDER

The jack holders allow holding the casters of the towers to make the lifting operations safely. They connect to the vertical tube of the frame with a clamp and have two handles made of round bars to hold the caster handle.
Hot dip galvanized, minimum thickness of 75 microns.

Description	Weight (kg)	Ø Clamp mm	Part No.
SCREW JACK HOLDER (GA)	1,1	48	219901008

BASE COLLAR



It can be assembled on casters or screw jack bases.
The rosette allows connecting diagonal braces and ledgers to make stabilizers.
Hot dip galvanized, minimum thickness of 75 microns.

Description	Weight (kg)	Max. Reg. (cm)	Part No.
BASE COLLAR M48 (GA)	1,5	20	219900010

STABILIZERS WITH CLAMP

They avoid overturning in mid-rise towers.
They are connected to the frame by a Ø 48 mm clamp.
Hot dip galvanized, minimum thickness of 75 microns.

Description	Weight (kg)	Length (m)	Part No.
STABILIZER D48 700 (GA)	7,3	0,7	025060700
STABILIZER D48 1000 (GA)	10,1	1,0	025061000

LEDGERS

Manufactured with Ø 48 mm pipe, they have locks with cone-shaped wedges on both ends that can be inserted into the small rosette openings. They allow joining the frames of the system as well as establishing stabilizers in compositions of high-rise towers.
Hot dip galvanized, minimum thickness of 75 microns.

Description	Weight (kg)	Length (m)	Part No.
LEDGER M48 1000 (GA) S-F	3,3	1,0	210200102
LEDGER M48 1300 (GA) S-F	4,0	1,3	210200132
LEDGER M48 2000 (GA) S-F	5,7	2,0	210200202
LEDGER M48 3000 (GA) S-F	8,2	3,0	210200302

ASSEMBLY PROCEDURE - SYS-FAST (5-PLUS)

1 Insert the **casters** at the bottom of the **2 m frame**. Leave the frame on the floor and face the casters onto the tube. The casters must have the brake device activated. Then, while an operator holds the frame upright, the other places a bubble level and verifies the horizontal of the frame transom regulating the handles of the casters. Then, assemble the **jack holders** at the lower ends of the frame.
You must have a ratchet to tighten the clamp nut.

2 Repeat steps 1 with the other 2 casters and jack-holders and with another 2 x 1.3 m frame. Then, connect a **2 m ledger** to the frame rosette located in the middle of the vertical pipe of the frame.

Hit the pin of the rosettes with a hammer to connect the 2 m ledgers as well as the 2 m guardrails and 2x2 m diagonal braces to the rosettes of the frames.

3 Join the sets assembled in steps 1 and 2 and add a 2m ledger connecting it to the rosette located 2 m high.

Apply the brakes on the casters to prevent slipping along the surface where they stand. The caster is locked when you press the lever to the ground. To unlock it, push the lever in the contrary direction.

4 Place the 2 units of **2 m platforms**, the **2 m access platform** (aluminium-wood) and the **aluminium access ladder** with the **ladder support**.

After placing the platforms on the ledgers of the frame, close the safety anti-lifting lock of the platforms at both ends to avoid dismantling and / or accidental turning-overs.

5 Go up to the level of platforms and introduce 2 **frames of 1.3 x 1 m**, then place the **guardrails**. Also connect a **diagonal brace**, as it is shown in the below picture.

6 Then place the remaining 1.3 x 2 m frames, using the pins. Place the next level of platforms as described in step 4. Then, go up and place the next set of guardrails as well as the 1.3 and 2 m **toeboards**. Also connect the other diagonal brace on the side opposite the previous diagonal (step 5).

After placing the platforms on the ledgers of the frame, close the safety anti-lifting lock of the platforms at both ends to avoid dismantling and / or accidental turning-overs.

CONFIGURATIONS SYS-FAST

- Maximum work height: **6.60** m (for greater heights, please contact our Technical Department).
- Working surface area: 1.35 x 2 m = 2.7 m^2.
- Working load: 2kN /m^2 (Class 3) , EN 1004:2006.
- Instruction manual in compliance with EN 1298:1996.

4-ECO

5-ECO

5-PLUS

SYS-FAST - CHARACTERISTICS	4-ECO	5-ECO	5-PLUS
WORKING HEIGHT (m) (*)	5,60 (5,25)	6,60 (6,25)	6,60 (6,25)
SCAFFOLD HEIGHT (m) (*)	4,60 (4,25)	5,60 (5,25)	5,60 (5,25)
PLANK HEIGHT (m)(*)	3,60 (3,25)	4,60 (4,25)	4,60 (4,25)
WEIGHT (kg)	249,8	280,1	323,7

(*) Heights with the caster spindle fully extended and, in brackets, the height with the caster spindle fully retracted.

OVERVIEW SYS-FAST TOWERS				
COMPONENT	REFERENCE	4-ECO	5-ECO	5-PLUS
SCAFFOLD FRAME M48 1300X1000 S-F	212213100		2	2
SCAFFOLD FRAME M48 1300X2000 S-F	212213200	4	4	4
STANDARD GUARDRAIL M48 2000 (GA)	211720200	2	2	4
DIAGONAL M48 2000x2000 (GA) S-F	210320202	2	2	2
LEDGER M48 2000 (GA) S-F	210200202	2	2	2
FIXED PLANK M48/D48 2000 C-4 (GA)	210530200	2	2	4
ACCESS PLANK M48/D48 2000 (WD/AL)	210600200	1	1	2
SNAP PIN	070300001	4	8	8
SCREW JACK HOLDER	219901008	4	4	4
TOEBOARD M48/D48 1300 (WD)	210800130	2	2	2
TOEBOARD M48/D48 2000 (WD)	210800200	2	2	2
LADDER WITH HOOKS AND RAILINGS B 3000	050213505	1		
LADDER WITH HOOKS AND RAILINGS B 4000	050214005		1	
ACCESS LADDER (AL)	240920000			2
LADDER SUPPORT (GA)	212390010	1	1	1
SCREW JACK CASTER HE 250 kg (Ø 36)	025000200	4	4	4

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