

SUPPORT SYSTEM

Slab Formwork



v.20260116

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SUPPORT SYSTEM



system features

► Simplicity



ONLY 3 ELEMENTS

Simple assembly. Faster and more efficient. Hammer as the only tool

SUITABLE SYSTEM

For all types of horizontal concrete structures. Construction of beam slabs, waffle slabs, solid slabs, etc.

WITHOUT RESHORING

No need to move props until complete striking. A large part of the material can be recovered after 3 days for a new use.

► Safety



ASSEMBLY FROM THE GROUND

The metal parts are assembled from the ground.

FIRM BOARD

Board fitted into the metal structure without nailing. Collective protection, perimeter and opening safety using guardrails and nets under the slab to prevent falls.

Flexibility and simplicity. The best combination

Recoverable formwork system for constructing waffle slabs with permanent blocks, one-way slabs and solid slabs. support system uses only 3 basic elements (guides, secondary beams and trolley support). The main advantage of the system is that the secondary beams perform the dual function of assembly elements and secondary-beam support. The profiles are designed for easy removal of the elements.



system features

► Cost-effectiveness



PROFITABLE INVESTMENT

A large part of the elements can be recovered 72 hours after pouring.

FINISH QUALITY

The structural elements are designed for daily site use and manufactured from high-strength steel.

SMART DESIGN

The design and fit between the profiles make board stripping easier.

► Robustness



STRONG AND DURABLE

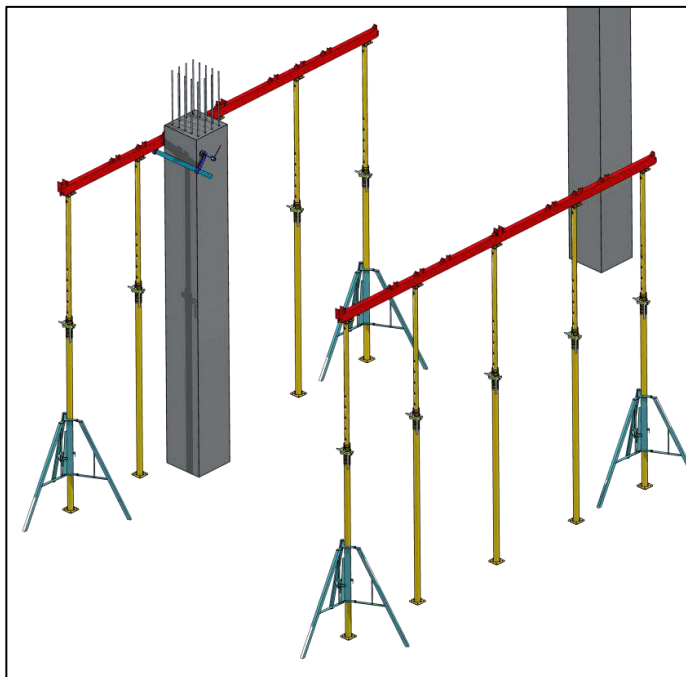
Material galvanized.

REINFORCEMENT

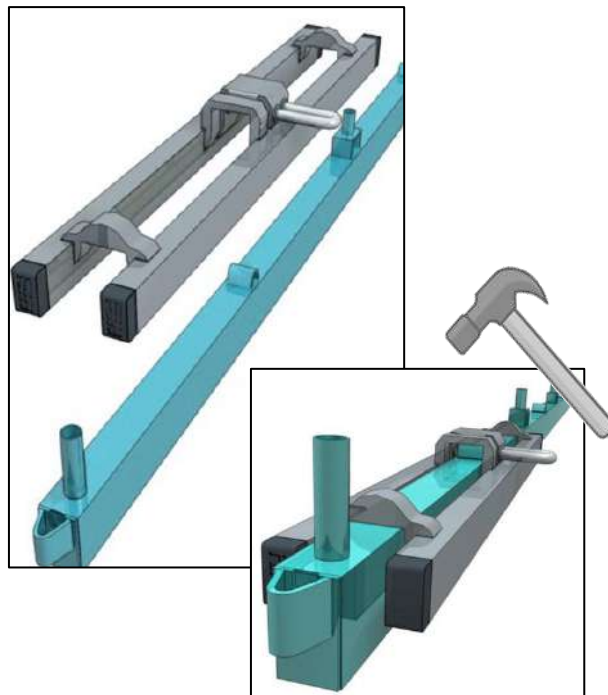
Possibility of reinforcement in areas with high slab load by adding secondary beams.

Support system assembly

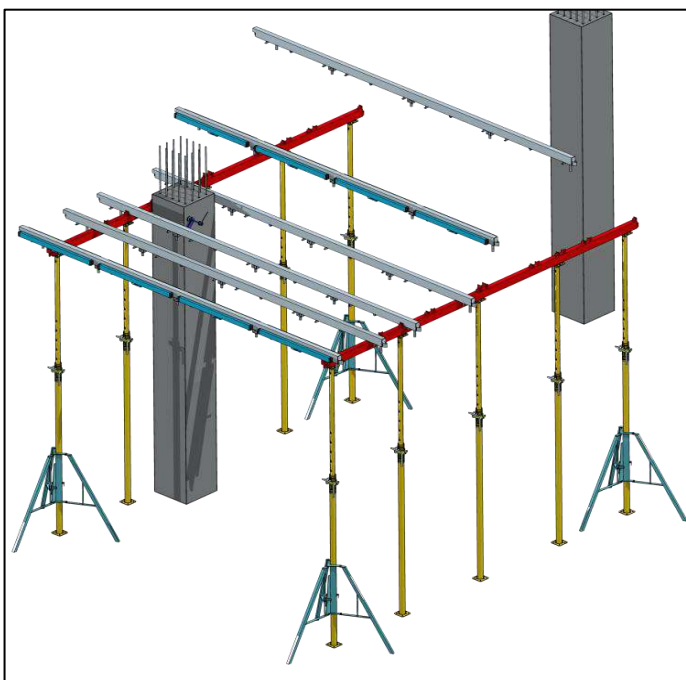
01 Positioning of the guides and their props



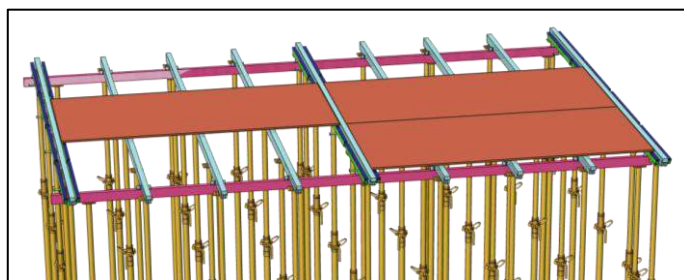
02 Positioning of the trolley supports on the corresponding secondary beams



03 Positioning of the secondary beams



04 Positioning of the remaining props and boards



Support system stripping

first phase

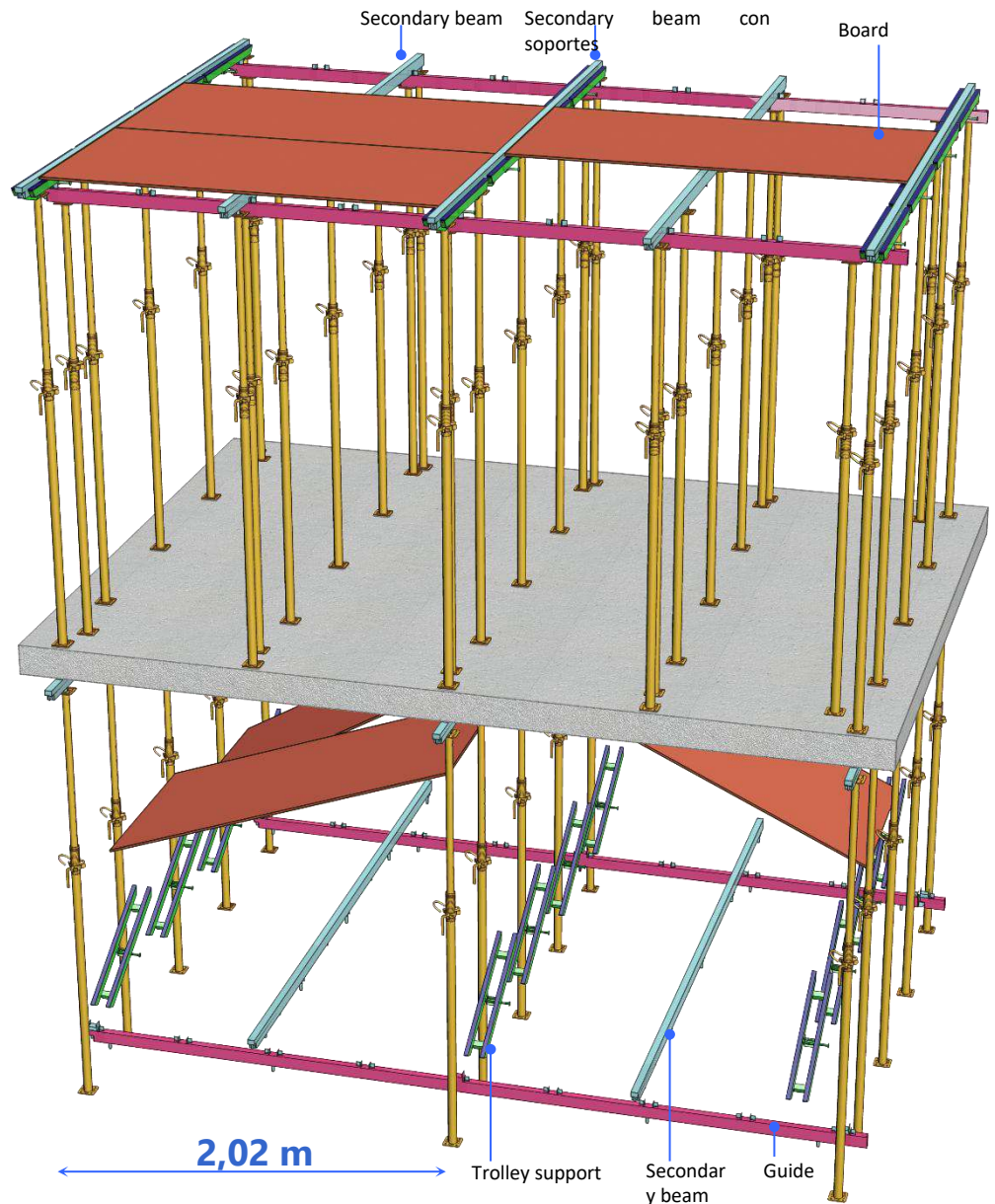
Three days after pouring concrete 80% of the material used for the first floor is recovered: the guides and their props, the intermediate secondary beams with their respective props, the trolley supports and the boards.

01

02

second phase

Every 2 metres, only one line continua de secondary beams hasta los 21 or 28 days, when the concrete reaches its characteristic strength and the floor no longer needs reshoring.

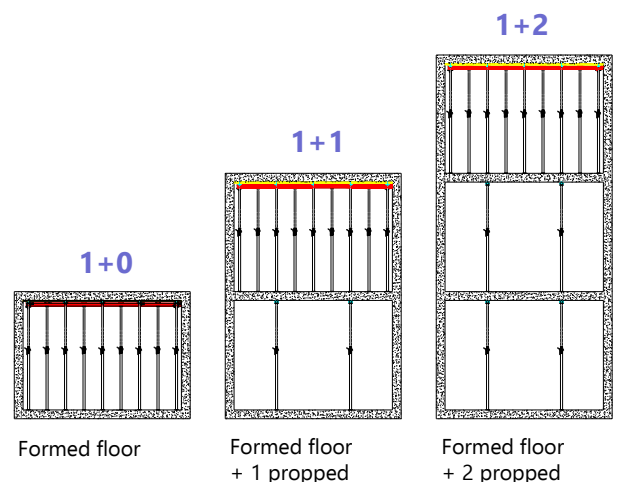


1+2 concept

02

The full floor + propped floor concept is related to recovering 80% of the equipment three days after pouring. The remaining 20% must stay propped until 21 or 28 days. Recommended for projects with essentially vertical progress, pouring concrete complete floors or by construction joints.

It is poured the upper floor is poured 7/10 days after the lower floor has been poured.

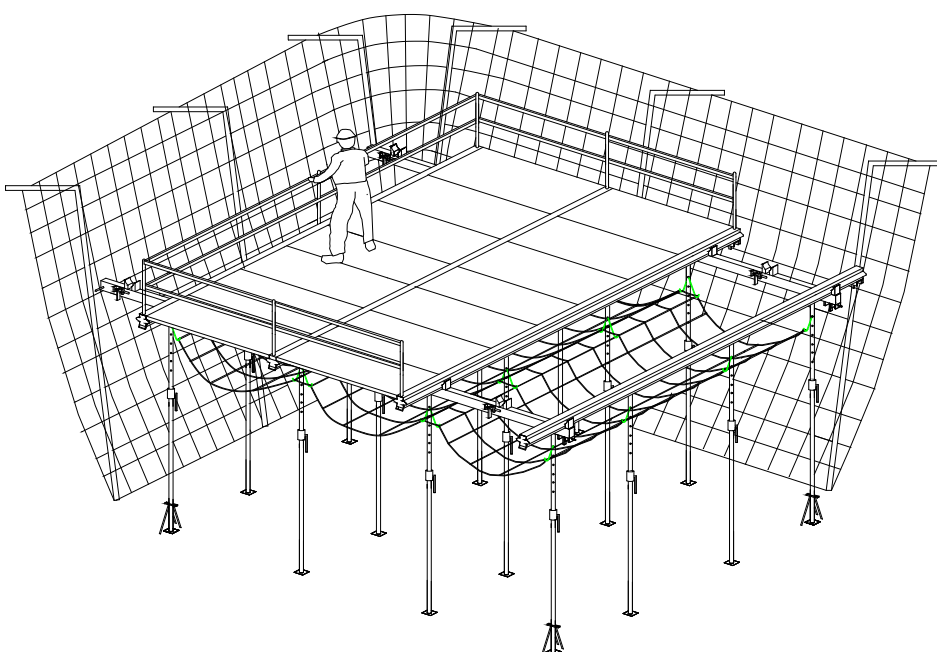


Support system details

safety nets

Given the difficulty of positioning scaffolding to install the boards and the guardrails, uses the preventive use of safety nets under the slab

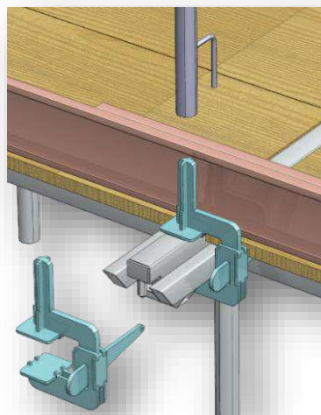
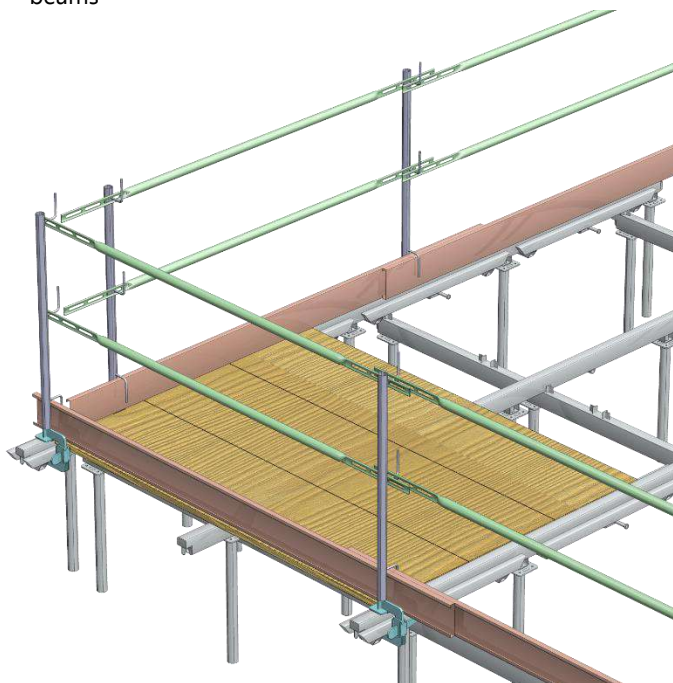
These nets are placed under the frame, fastened to the props with a hook and laced with rings or carabiners.



G support and edge protection

Temporary edge protection system where posts and rails are installed. This G support is fixed to the secondary beams

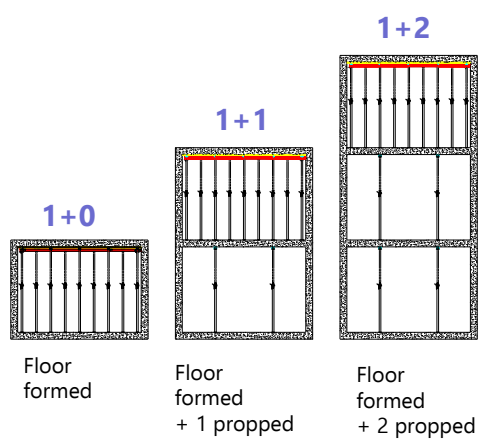
Also used as the outer stop for the boards.



Support system layout

material ratios

support system uses few elements per square metre. A standard material count is detailed below.



material for 1000 m²

Description	1+0	1+1	1+2
Guide 4,0 m	80	0	0
Guide 2,0 m	10	0	0
Secondary beam 4m	200	+100	+100
Secondary beam 3m	50	+25	+25
Secondary beam 2m	20	+10	+10
Support trolley	500	0	0
Board 1,97x0,5	1000	0	0
Prop	1400	+500	+500

applied loads



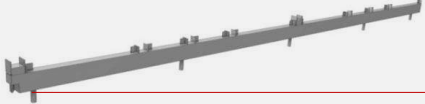
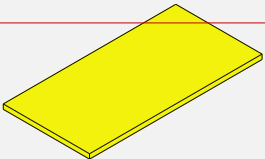
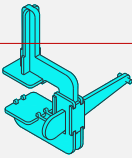
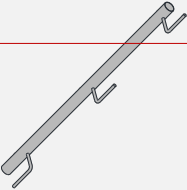
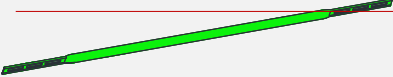
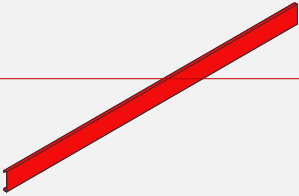
depth slab [cm]	Weight slab [kN/m ²]	total weight [kN/m ²]	Spacing Sopandas [m]	strength prop [kN]
10	2,45	4,2	1	4,2
15	3,68	5,4	1	5,4
20	4,90	6,6	1	6,6
25	6,13	7,9	1	7,9
30	7,35	9,1	1	9,1



depth slab [cm]	Weight slab [kN/m ²]	total weight [kN/m ²]	Spacing Secondary beams [m]	strength prop [kN]
25	6,13	7,9	0,67	5,4
30	7,35	9,1	0,67	6,2
35	8,58	10,4	0,67	7,0
40	9,80	11,8	0,67	8,0
45	11,03	13,1	0,67	8,9

A minimum safety factor of 2 must be applied to the prop capacity.

Support system elements

	GUIDE 4.20 and 2.10 m		
	DIMENSIONS (mm)	WEIGHT (kg)	DESCRIPTION
	4045 2020	19,6 9,9	They level the secondary beams and are used to assemble the frame
	SECONDARY BEAM 4, 3 and 2 m		
	DIMENSIONS (mm)	WEIGHT (kg)	DESCRIPTION
	4000 3000 2000	18,1 13,2 9,3	Elements load-bearing elements that support the boards and the concrete load until 3 days after pouring
	SUPPORT 1 m TROLLEY		
	DIMENSIONS (mm)	WEIGHT (kg)	DESCRIPTION
	1000 Steel 1000 Aluminium	5,4 3,2	Elements designed for fast recovery of the formwork
	BOARD 1,97x0,5 m		
	DIMENSIONS (mm)	WEIGHT (kg)	DESCRIPTION
	1970x500	12,4	Surface form-facing recoverable timber three-ply 27 mm thick
	SUPPORT G		
	DIMENSIONS (mm)	WEIGHT (kg)	DESCRIPTION
	270x200	3,4	Accessory for edge protection system and outer board stop
	POST 1 m		
	DIMENSIONS (mm)	WEIGHT (kg)	DESCRIPTION
	1000x110	1,75	Accessory for edge protection system.
	RAIL 2 m		
	DIMENSIONS (mm)	WEIGHT (kg)	DESCRIPTION
	2200x40	2,7	Accessory for edge protection system.
	TOE BOARD 2.5 m		
	DIMENSIONS (mm)	WEIGHT (kg)	DESCRIPTION
	2500x150	6,5	Accessory for edge protection system.

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