SÁEZ formworks

SOPORTES 133

ceiling formwork



SAEZ FORMWORKS, S.L.
B75465989

CTRA. DE BENIAJAN, 10
30570 MURCIA

v.20260918

System glossary

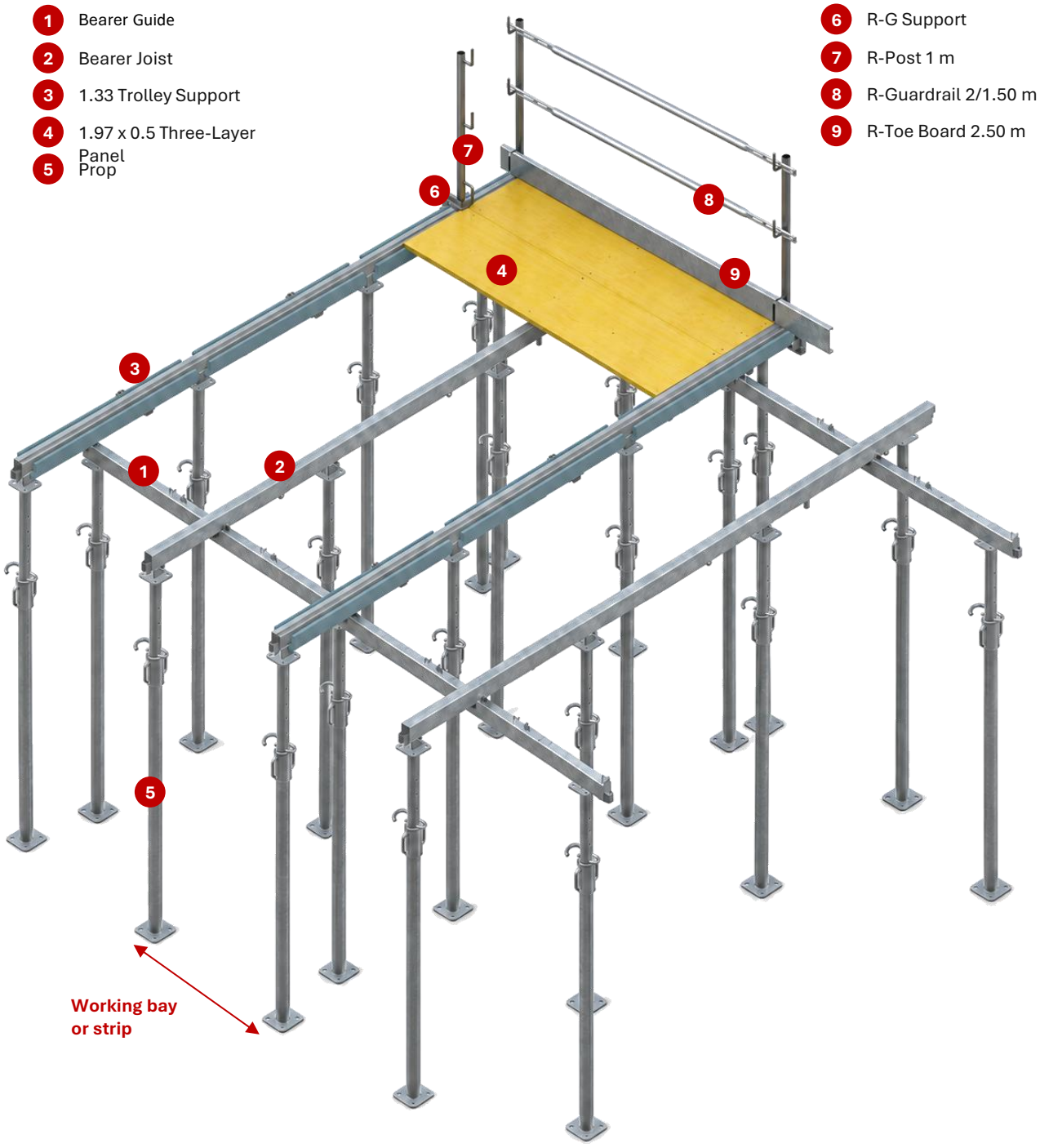
Learn each term.

Horizontal or Ceiling Formwork

Temporary structure used to shape and support fresh concrete in a slab until it cures and can support itself.

Desencofrado parcial – Sopandeo o Clareado

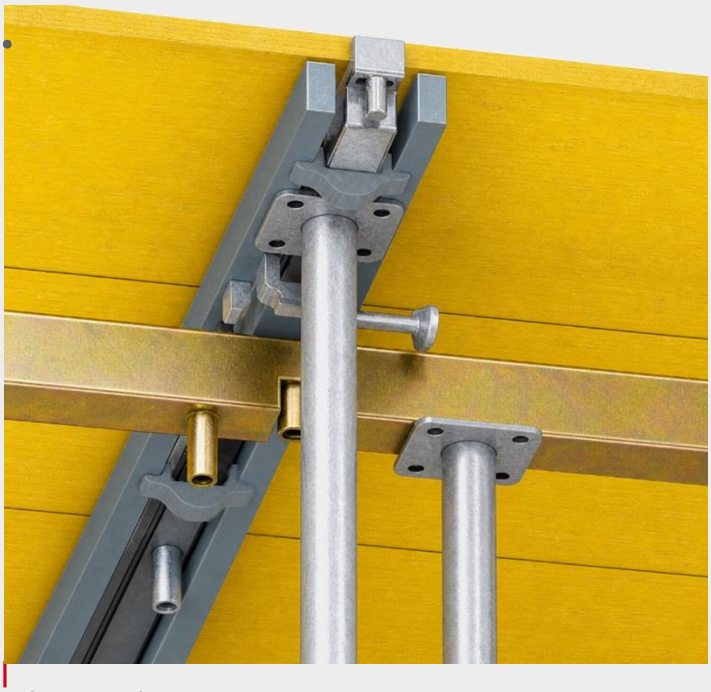
Partial removal of ceiling formwork, carried out in stages while leaving some elements in place so as not to compromise the slab structure.



Description

Simple. Efficient. Cost-effective.

Sistema de encofrado horizontal recuperable basado en una solución simple, resistente y rápida de montar. Sus elementos trabajan conjuntamente para soportar los panels de encofrado, repartir las cargas durante el hormigonado y facilitar la recuperación parcial del material.



System on site

01.

Simplicity

System consisting of three main load-bearing elements, designed to reduce operations and facilitate assembly.

02.

Productivity

Fast assembly thanks to the quick connection of its components and reduced operator movement.

03.

Durability

Components designed for demanding site conditions and protected against oxidation by hot-dip galvanizing.

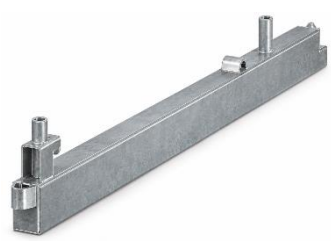
KEY DATA

- > 3 elementos resistentes principales
- > Sistema horizontal recuperable
- > Guías maestras de 4 m y 2 m
- > Sopandas de 4 m, 2.66 m y 1.33 m
- > Soportes de carro: 3 unidades cada 4 m
- > Separación entre props: 1.33 m



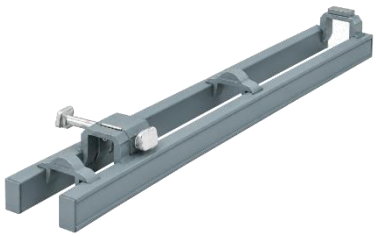
1. Guide

Longitunitsinal element that aligns the bearer joists.



2. Bearer Joists

Load-bearing elements that accommodate the supports.



3. Trolley Supports

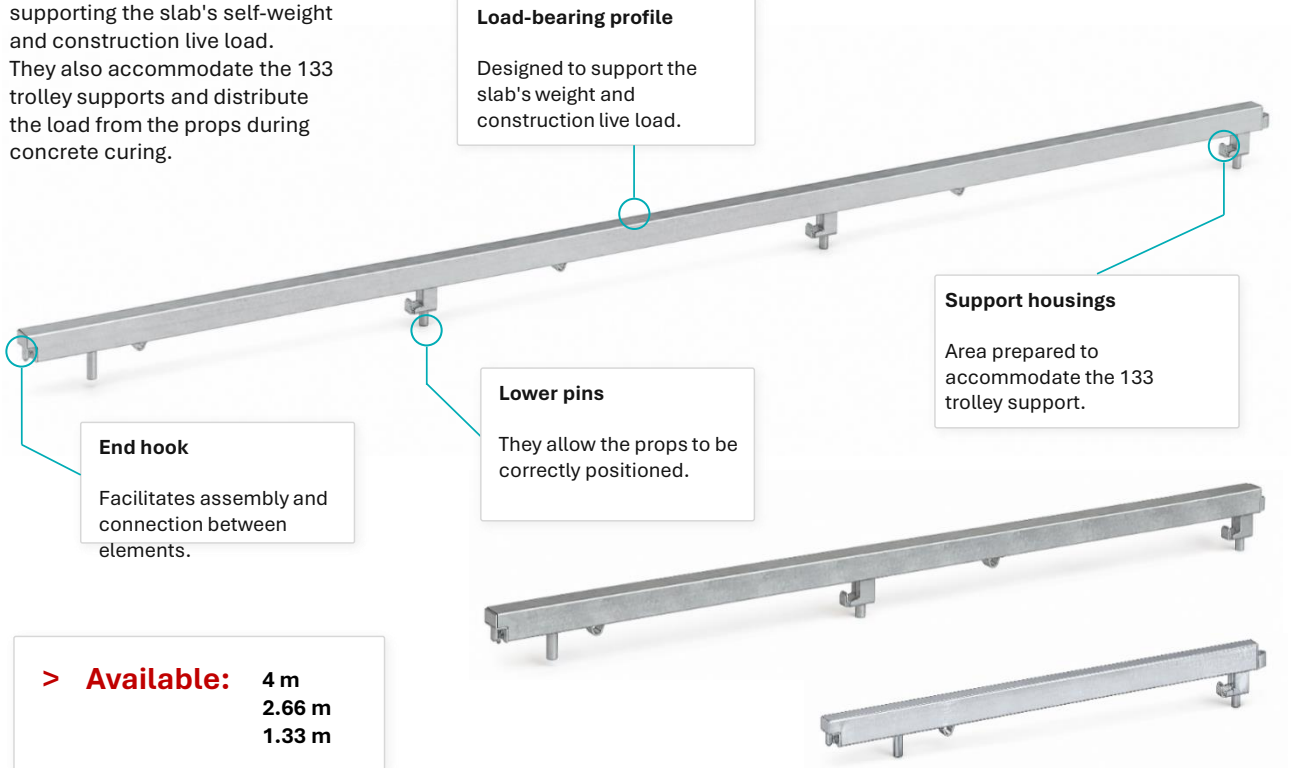
Panel anchoring element that allows partial recovery of the formwork

System components

Main components.

01. Bearer Joist

Elements responsible for supporting the slab's self-weight and construction live load. They also accommodate the 133 trolley supports and distribute the load from the props during concrete curing.



> **Available:** **4 m**
> **2.66 m**
> **1.33 m**

02. Bearer Guide

They serve as guides for positioning the bearer joists at predetermined distances and facilitate leveling.



➢ **Available en 4 m y 2 m**

> **Working baysa 1 m y 0.66 mm**

System components

03. 133 Trolley Support

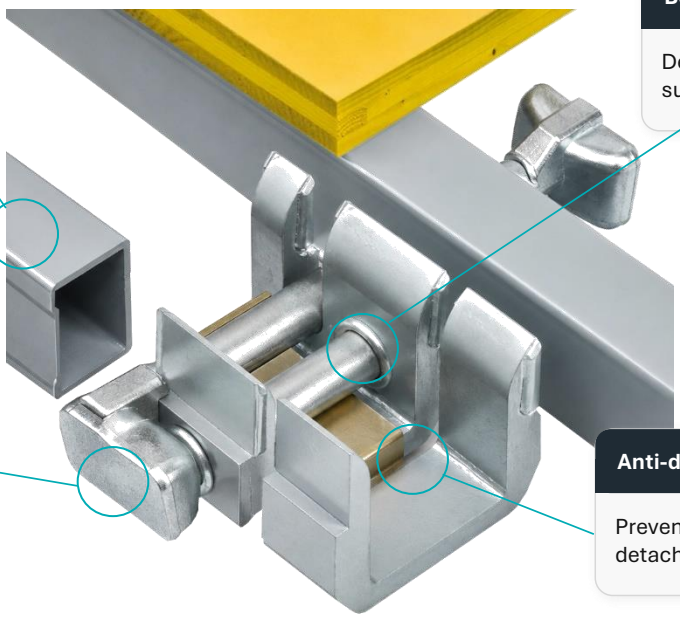
Aluminium component designed for partial formwork recovery. It incorporates a steel pin that facilitates assembly and disassembly during Panelremoval, and an anti-slip spring that prevents accidental disassembly.

Panel support

Area where the panels rest during assembly and concreting. Ribbed rectangular tube for greater strength.

Bearer joist housing

Designed to position the support correctly.



Pin

Secures the support to the bearer joist quickly and safely.

Anti-disassembly spring

Prevents accidental detachment of the support.

Faster assembly

Reduces operator movement.

Greater safety

The support does not fall thanks to the spring.

Lower weight

Lightweight assembly that facilitates handling

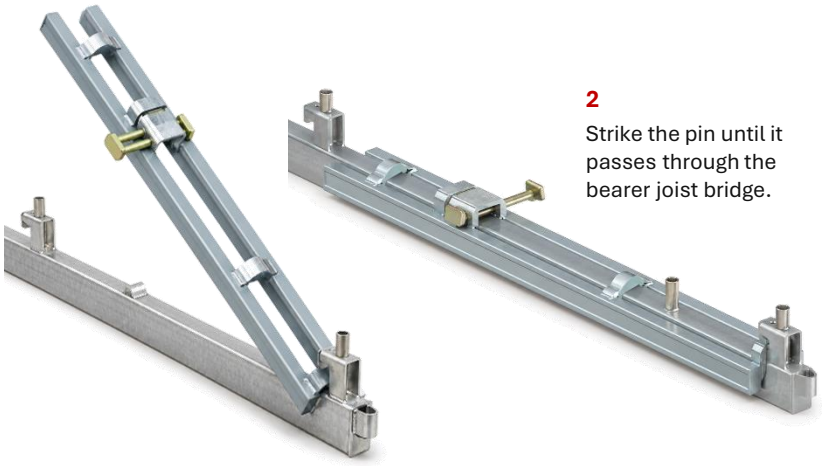
Error-free assembly

Only one correct position is possible.

TROLLEY SUPPORT ASSEMBLY

1

Place the bearer joist on the ground with the pins facing upward.
Insert the support at an angle into the pin housing of the bearer joist.



2

Strike the pin until it passes through the bearer joist bridge.

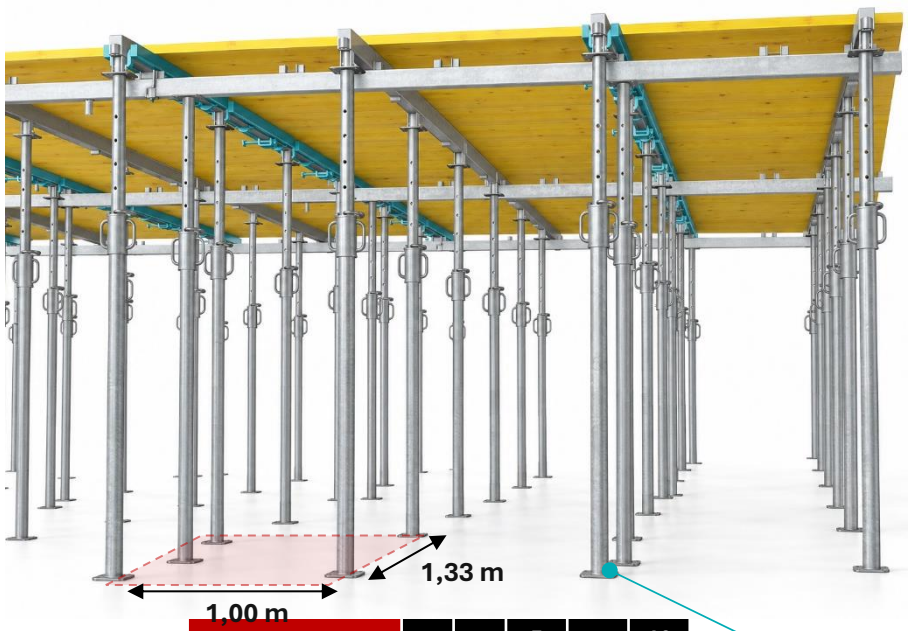
System layout

WORKING BAY 1,00 m

01. During formwork

Quantity per formed floor area

0.36 m.Guide/m²
1.00 m.Beared Joist /m²
0.36 Supports/m²
0.95 props/m²



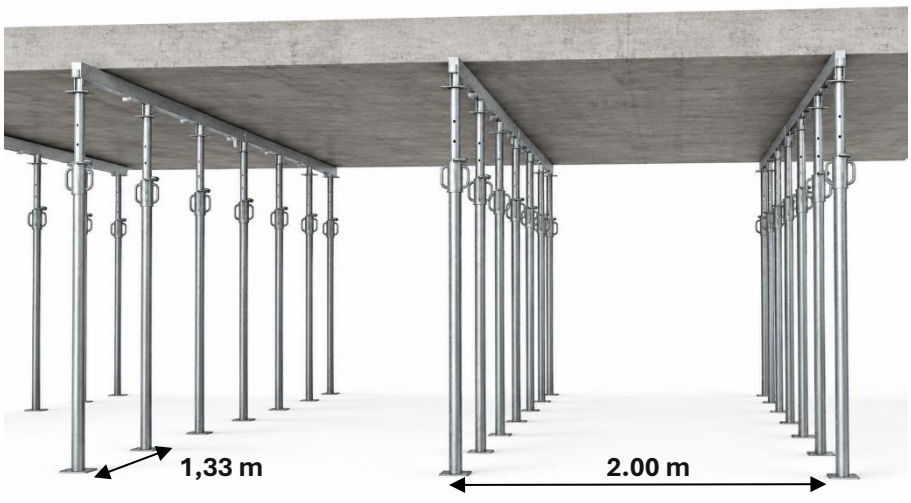
Prop selection

			5		10
Solid slab [cm]	**15**	**17**	**20**	**22**	**25**
Concrete Weight [kN/m2]	3,75	4,25	5,00	5,5	6,25
Weight + Live Load[kN/m2]	5,60	6,10	6,85	7,35	8,10
Prop Load[kN]	**7,57**	**8,25**	**9,26**	**9,94**	**10,95**

02. After clearing

Quantity per propped/cleared floor areaa

0.00 m.Guide/m²
0.50 m.Beared joist/m²
0.00 Supports/m²
0.38 props/m²



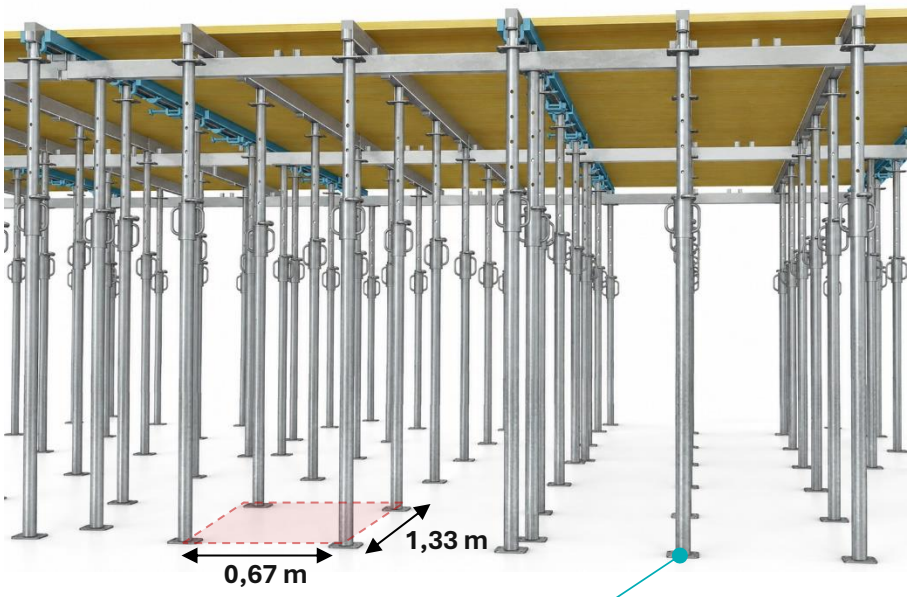
System layout

WORKING BAY 0,67 m

01. During Formwork

Quantity of formed floor area

0.36 m.Guide/m²
1.50 m.Bearer joist/m²
0.36 Supports/m²
1.30 props/m²



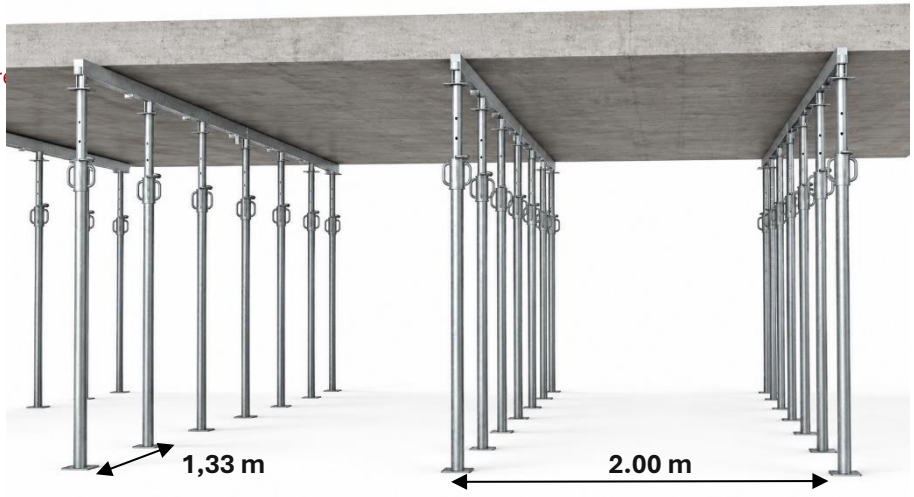
Prop selection

Espesor Losa [cm]	30	35	40
Peso hormigón [kN/m2]	7,50	8,75	10,00
Peso + Sobrecarga [kN/m2]	9,35	10,73	12,10
Carga en Prop [kN]	**8,43**	**9,67**	**10,90**

02. After clearing

Quantity per propped/cleared floor ar

0.00 m.Guide/m²
0.50 m.Bearer joist/m²
0.00 Support/m²
0.38 props/m²

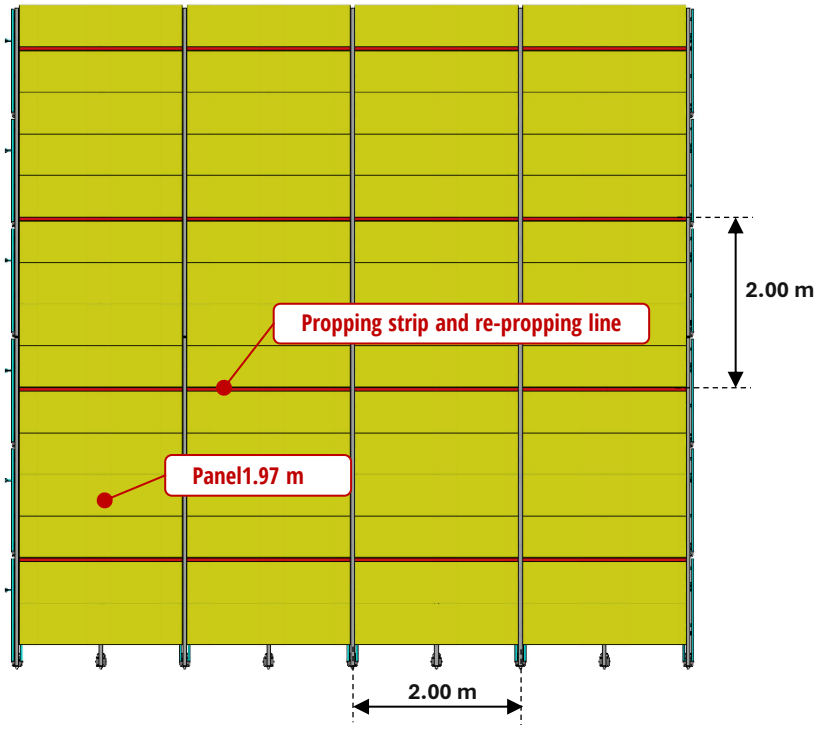


Layout with Propping Strips

PROPPING STRIP DATA AND APPLICATION

01. Process objective

The propping strip, installed in a similar way to the panels, maintains slab support during clearing as a lightweight, repetitive element. Installing it with reused props simplifies the subsequent removal of supports, bearer joists and panels.



Indicative Data	
Transverse Spacing	**2,00 m**
Longitudinal Spacing	**2,00 m**
Reused Props	**0,25 ud/m2**
Propping Strips per Slab:	**0,25 ud/m2**
Illustrative Example	

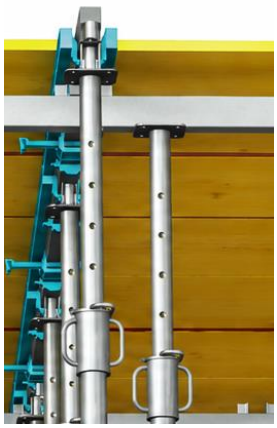


Propping Strip
Hot-dip galvanized.

02. Recommended sequence

1 Recover props

Remove the props released from the guides at the start of propping.



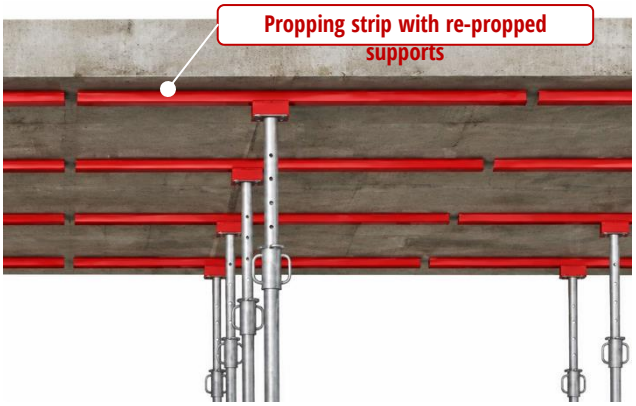
2 Position under propping strips

Reposition the recovered props to support the propping strips and secure the slab.



3 Remove the rest

Once the assembly is stabilized, the supports, bearer joists and panels can be removed.



Configurations

MATERIAL QUANTITIES SUMMARY

01. Formwork with bearer joists as the main element

Summary 1000 m2		Banda 1,00 m	Banda 0,67 m
	Bearer Guide 4 m	80	80
	Bearer Guide 2 m	20	20
	Bearer Joist4,00 m	200	300
	Bearer Joist2,66 m	60	90
	Bearer Joist1,33 m	30	45
	Trolley Support1,33 m	376	376
	Prop	950	1336
	Panel1,97 x 0,50	1000	1000

02. Propping with bearer joists as the main element

Summary 1000 m2		Banda 1,00 m	Banda 0,67 m
	Guía portacorrea 4 m	-	-
	Guía portacorrea 2 m	-	-
	Bearer Joist4,00 m	100	100
	Bearer Joist2,66 m	30	30
	Bearer Joist1,33 m	15	15
	Trolley Support1,33 m	-	-
	Prop	376	376
	Panel1,97 x 0,50	-	-

A. Formwork with bearer joists and propping strips

Summary 1000 m2		Banda 1,00 m	Banda 0,67 m
	Guía portacorrea 4 m	80	80
	Guía portacorrea 2 m	20	20
	Bearer Joist4,00 m	200	300
	Bearer Joist2,66 m	60	90
	Bearer Joist1,33 m	30	45
	Trolley Support1,33 m	376	376
	Propping strip 1,97 m	250	250
	Prop	950	1336
	Panel1,97 x 0,50	1000	1000

B. Propping with bearer joists and propping strips

Summary 1000 m2		Banda 1,00 m	Banda 0,67 m
	Guía portacorrea 4 m	-	-
	Guía portacorrea 2 m	-	-
	Bearer Joist4,00 m	-	-
	Bearer Joist2,66 m	-	-
	Bearer Joist1,33 m	-	-
	Trolley Support1,33 m	-	-
	Propping strip 1,97 m	250	250
	Prop	250	250
	Panel1,97 x 0,50	-	-

SFR-320 Steel Prop

Lightweight, strong and easy to adjust.

The SFR-320 steel prop is a robust and economical solution for propping applications.
Its design ensures precise adjustment, easy handling and a high level of safety on site..



Components and safety

Precise adjustment
Inner tube perforated every 100 mm (high precision and burr-free).

Quick release
Release system to facilitate formwork stripping.

Durability
Hot-dip galvanized surface finish.



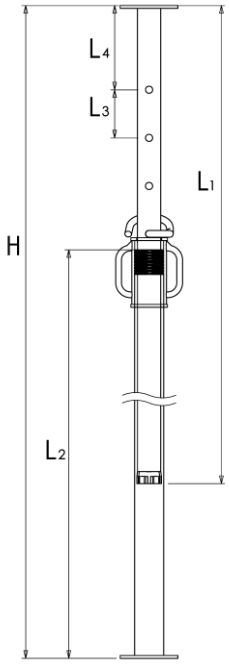
Safety
Anti-crush system (10 cm clearance when closed)

Coarse-thread screw
Forged steel thread and handle.

Safety
Safety stop that prevents the inner tube from coming out.

Key data

1,97 – 3,20 m	11,1 kg	19,0 kN
Extension range	Weight	Permissible load



Main dimensions

Modelo SFR-320	
700040-E1E-355	
Peso (Kg)	11,1
H (m)	1,97 -3,20
L1 (m)	1,915
L2 (m)	1,625
L3 (m)	0,1
L4 (m)	0,173
Ød (mm)	48 x 2
ØD (mm)	57 x 2
Base (mm)	120 x 4

Load capacity

Extensión (m)	Permissible load (kN)
3,20 m	19,0
2,85 m	23,5
2,40 m	24,8
1,97 m	24,8

SFR-385 Steel Prop

Greater extension for greater heights



Components and safety

Precise adjustment
Inner tube perforated every 100 mm (high precision and burr-free).

Quick release
Release system to facilitate formwork stripping.

Durability
Hot-dip galvanized surface finish.



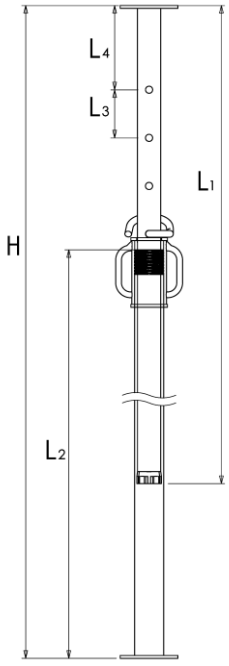
Safety
Anti-crush system (10 cm clearance when closed)

Coarse-thread screw
Forged steel thread and handle.

Safety
Safety stop that prevents the inner tube from coming out.

Key data

2,50 – 3,85 m	12,7 kg	12,6 kN
Extension range	Weight	Permissible load



Main dimensions

Modelo SFR-385	
700040-E1E-363	
Peso (Kg)	12,7
H (m)	2,50 -3,85
L1 (m)	2,410
L2 (m)	1,675
L3 (m)	0,1
L4 (m)	0,173
Ød (mm)	48 x 2
ØD (mm)	57 x 2
Base (mm)	120 x 4

Load capacity

Extensión (m)	Permissible load (kN)
3,85 m	12,6
3,50 m	16,3
3,00 m	22,1
2,50 m	24,8

SÁEZ formworks

SÁEZ FORMWORKS, S.L.

B75465989

CTRA. DE BENIAJAN, 10
30570 MURCIA

@ info@saezformworks.com

W www.saezformworks.com