DalpHi®

FORMWORK

SAVINGS | ADAPTABILITY | LIGHT WEIGHT

ECONOMICAL ALUMINIUM SLAB FORMWORK

BV Cert. 6150814

ORIGINE FRANCE® GARANTIE

Alphi®
Formwork and solutions

Site: Chambéry hospital maternity ward car park
Client: Bouygues Construction
Location: Chambéry

DalpHi®

The economical, high-performance DalpHi floor formwork system suits all types of buildings: offices, housing residential care homes, correction facilities, etc.

It can be installed at a productivity rate of 25 m^2/person/day.

Its aluminium components make it one of the **most lightweight formwork systems on the market.**

The drop-head integrated in the prop (patented by Alphi) ensures **safe removal.**

BV Cert. 6150814

PRODUCTIVITY

Installation
25 m²/person/day.

Quick equipment turnarounds
Small quantity of equipment used thanks to quick turnarounds.

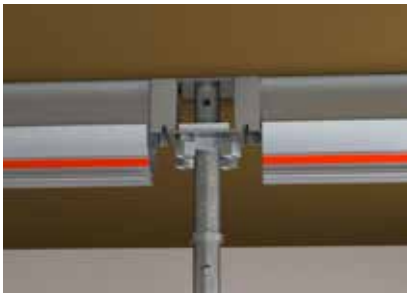
Easy removal
The drop-head for fast removal integrated in the technical support (Alphi patented system) keeps the slab supported during formwork removal.

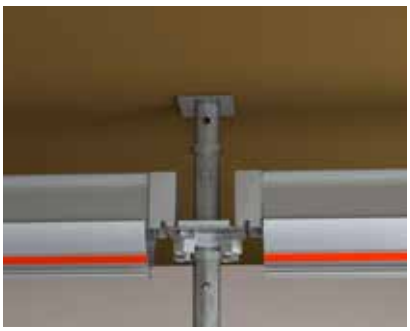
Easier identification
The beams are colour-coded, in compliance with the layout drawings drafted by the Alphi design office.

Hand-portable
The simple components in the DalpHi system make it possible to work independently, with no need for a crane. This leaves the crane available for other tasks.

LIGHTWEIGHT, HAND-PORTABLE EQUIPMENT

The integrated drop-head for fast removal enables a quicker turnaround of the aluminium structure





The drop-head integrated in the prop allows fast formwork removal without releasing pressure on the slab

ADAPTABILITY

Wide choice of lengths

The beam size is chosen to suit the needs of each project.
4 primary beam lengths and 3 secondary beam lengths are available.

Flexible use

- "Primary on primary" assembly allows the DalpHi system to adapt to the exact dimensions of the cells.
- Beams can also be fitted on shoring towers.

QUALITY

Cast concrete thickness of up to 1.23 m

Regulations

The beams are designed in compliance with the formwork standard NF P 93-322.

Theft protection

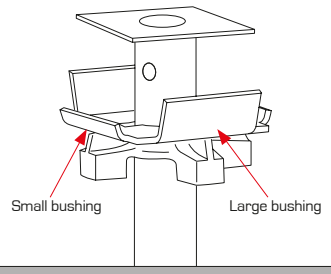
The chemical process developed by Alphi prevents fraudulent aluminium beam recycling.

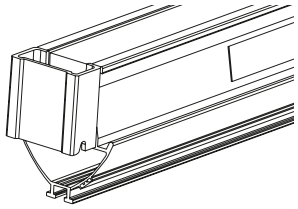
Protection identifiable by red insert

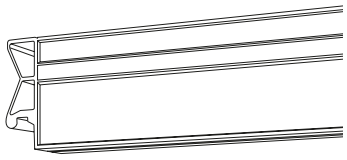
ALL DALPHI COMPONENTS HAVE BEEN TESTED BY THE **INDEPENDENT LABORATORY LOCIE AT THE UNIVERSITY OF SAVOIE MONT BLANC.**

UNIVERSITÉ SAVOIE MONT BLANC

3 SIMPLE COMPONENTS

1	Technical support (ST) with integrated drop-head	Name	Colour	Height (cm)	Unit weight (kg)	Description
Technical supports		ST1		197-300	18.50	▪ Integrated drop-head for fast removal (patented system) ▪ Base web ▪ Hot-dip galvanized ▪ Cast iron sleeve
		ST2		225-350	20.50	
		ST3		250-400	23,50	
Aluminium props	Aluminium prop with insulated head					
		ST1 Alu		164-267 + 33 for the insulated head	15.00	▪ 33 cm insulated head attached to the end of the prop ▪ Full-height runner thread, self-cleaning ▪ Easy height adjustment by means of the gauge incorporated into the runner
		ST3 Alu		270-400 + 33 for the insulated head	19.40	

2	Primary beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
Primary		PP 90		90	5.40	▪ Theft protection ▪ Can be mounted in a drawer ▪ 30 mm timber inserts, for nailing on plywood using 40 mm nails
		PP 110		110	6.60	
		PP 150		150	9.00	
		PP 180		180	10.80	

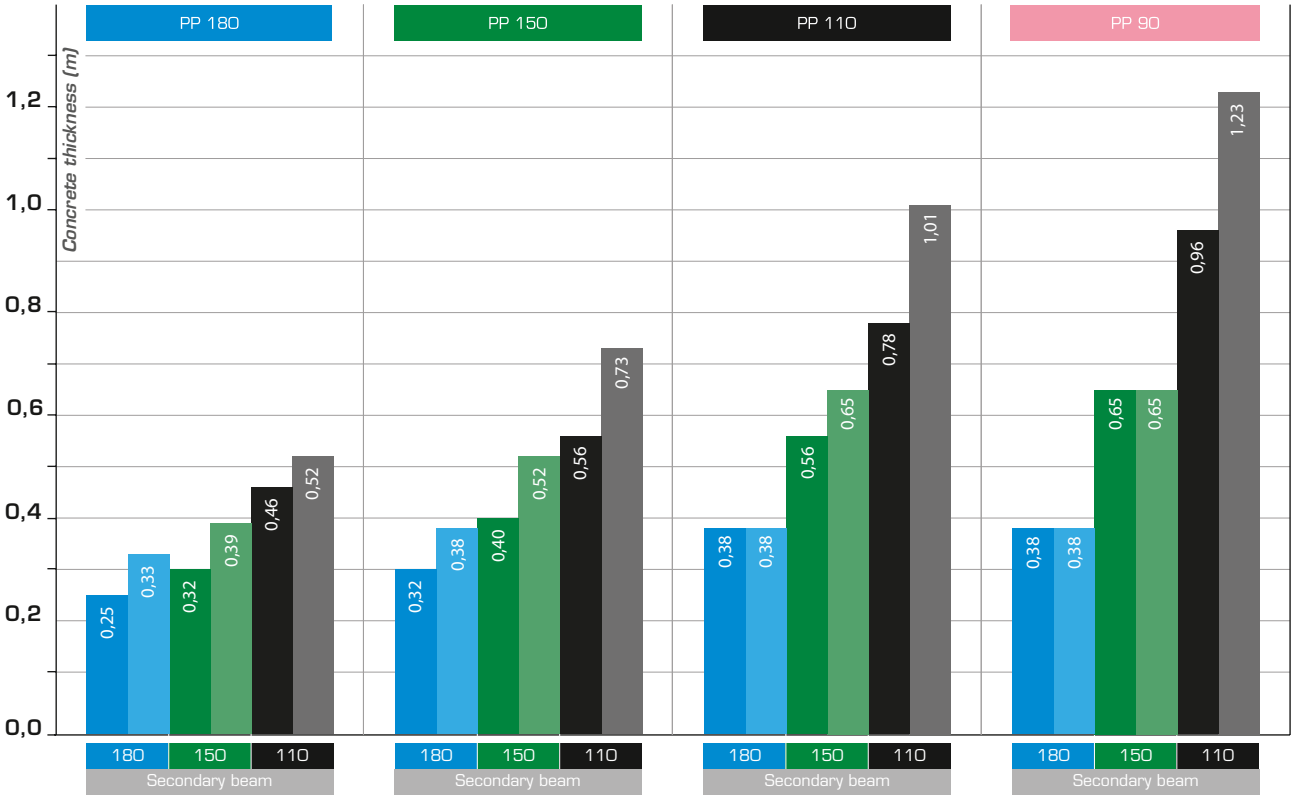
3	Secondary beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
Secondary		PS 110		110	3.00	▪ Theft protection ▪ Timer inserts for nailing on plywood using 40 mm nails ▪ Compatible with other formwork solutions
		PS 150		150	4.10	
		PS 180		180	4.90	

USE CALCULATION CHARTS

The values appearing in these charts must be complied with to ensure the safety of operators and compliance with the applicable standards (NFP 93-322 for beams and EN 1991 1-6 for all loads).

Beams

Specified value for a superior quality as per DTU 21 guidelines for concrete floors, accounting for the site load (2.5 kN/m²).



Load on prop less than 32 kN

Load on prop greater than 32 kN (zone requiring specific study by Alphi design office)

PP Primary beam

PS Secondary beam

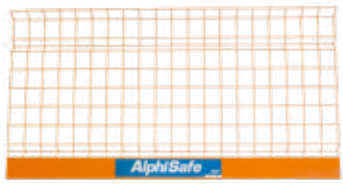
ST technical supports with integrated drop-head / Étai aluminium avec tête isolée

Name	Colour	Height (cm)	Weight (kg)	*Shored height (m)* / Working load (kN)																							
		mini-maxi		*1.9*	*2.0*	*2.1*	*2.2*	*2.3*	*2.4*	*2.5*	*2.6*	*2.7*	*2.8*	*2.9*	*3.0*	*3.1*	*3.2*	*3.3*	*3.4*	*3.5*	*3.6*	*3.7*	*3.8*	*3.9*	*4.0*	*4.3*
ST1*		197-300	18.5	40	39	38	37	36	35	35	34	33	33	32	32											
ST2*		225-350	20.5				40	39	39	38	37	36	36	35	35	34	34	33	32	32						
ST3*		250-400	23.5							40	40	40	40	40	40	40	40	40	38	38	34	34	30	30	26	
ST1 Alu		164-267 + 33 for the insulated head	15			40	40	40	40	40	40	40	40	40	40											
ST3 Alu		270-400 + 33 for the insulated head	19.4									40	40	40	40	40	40	40	40	40	40	40	39	37	36	34

* Hot-dip galvanized - Sleeve or nut colour coding
As per Eurocode safety coefficients 0 and 3.

DALPHI ACCESSORIES

Safety

Mesh*	Dimensions w x h (m)	Weight (kg)	Description
	1.25 x 1.30	7.60	▪ The wire mesh is galvanized, with polyester powder coating
	2.50 x 1.30	14.50	

Galvanized post*	Cross-section (cm)	Height (m)	Weight (kg)
	3.5 x 3.5	1.34	3.50

Alphi formwork adapters			Weight (kg) Primary adapter	Weight (kg) ST adapter	Weight (kg) Corner adapter
Primary adapter*	ST adapter*	Corner adapter			
			2.30	2.10	2.10
					*Compliant with EN 13374 standard

AlphiSafe pole	Length (cm)	Unit weight (kg)	Description
	1.94 à 3.50	2.73	▪ Work from ground level ▪ Risk of falls from height eliminated

Additional

Electrogalvanized insulated head	Bores (mm)	Height (cm)	Unit weight (kg)	Maximum allowable load (kN)
	4 x Ø12 x 80	33	3.80	40

Bracket	Non-tilt safety fork (FSAB)	Unit weight bracket (kg)	Maximum allowable load (kN)	Unit weight FSAB (kg)	Tube diameter (mm)	Description
		1.05	3.5	1.15	35	▪ Bracket: butterfly fastening nut ▪ FSAB: hammer head screw

Outils Leborgne

Nanovib® range	Leborgne product characteristics
	▪ Tools suitable for fitting and removing Alphi formwork: hammers, hammer holder, prop key ▪ Vibration and noise reduction Alphi distributes LEBORGNE Click **here** to view details of Leborgne Tools

Handling

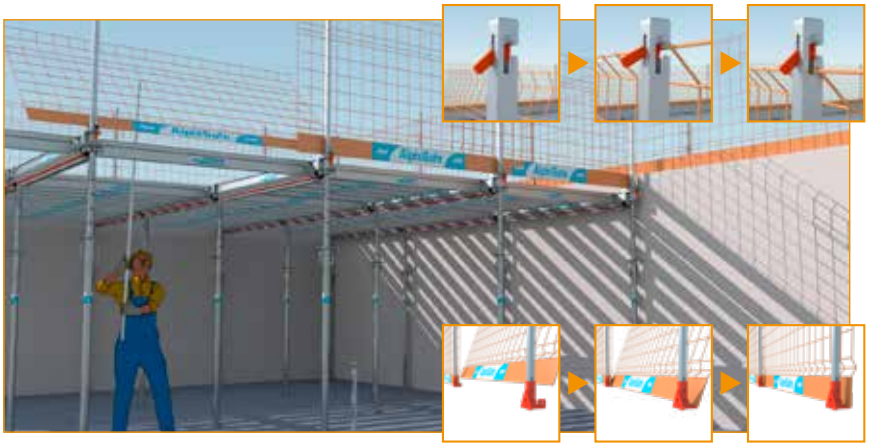
Rack	Ranges
	▪ Vertical storage rack ▪ Galvanized rack on wheels ▪ Galvanized handling rack Click **here** to view details of racks
TransEtais Housing	**Description**
	▪ Easier prop handling ▪ Makes it possible to pass through door openings Click **here** to view details of TransEtais Housing

Aids for use

Plywood cutting support	Dimensions W x L x H (m)	Description
	1.40 x 2.06 x 0.86	▪ For sale only ▪ Circular saw kit and electrical extension available as an option
Rolling safety ladder	**Working height (m)**	**Description**
	2.50 to 4.33	▪ For sale only

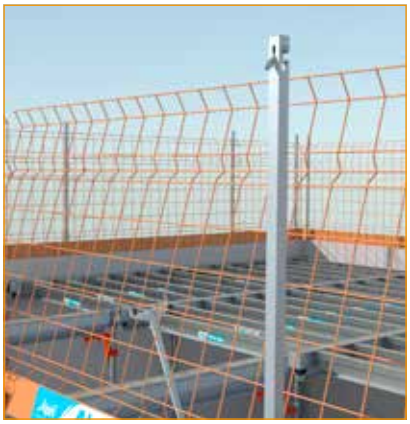
ALPHISAFE COLLECTIVE PROTECTION

AlphiSafe is a collective protection system for formwork and slab edges.
The technical innovations in the system allow **safe installation** and **automatic locking**.
Robust AlphiSafe is certified by Ginger CEBTP, **as per the EN 13374 standard of July 2013**, as class A and B for some components.
AlphiSafe is distinguished by its **height of 1.30 m,** which is above the minimum height of 1.00 m set by the standard, and protects traditional slab formwork up to 30 cm thick.



The mesh is locked at the top by the anti-lifting pin and locked in rotation at the base.

Installation of AlphiSafe safety system in cantilever configuration



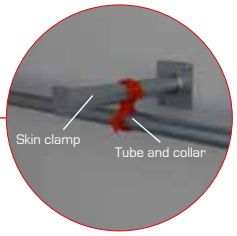
Installation of AlphiSafe safety system on technical support (progressive fitting)

CLAMPING

Depending on the configuration, stabilisers may be recommended.
Contact Alphi design department to validate the solution.
See below for the various systems proposed.

Skin clamp

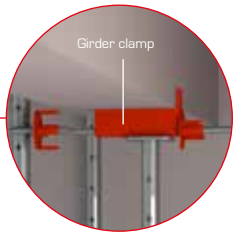
- Skin clamp + tube system.



- Set up the stabilisation of the first components.
- When the stabilising is installed, you can remove the tripods.

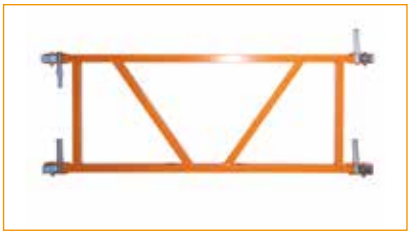
Girder clamp

- Girder clamp + tube system.



- Set up the stabilisation of the first components.
- When the stabilising is installed, you can remove the tripods.

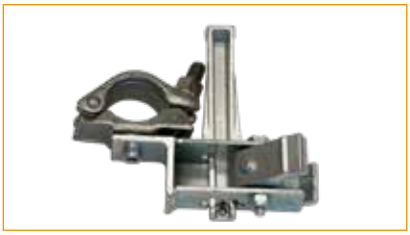
Aluminium prop frame



- The prop frame provides a rigid link between 4 props.

- Position the 4 props as desired then fasten the prop frame.

Aluminium prop clamp



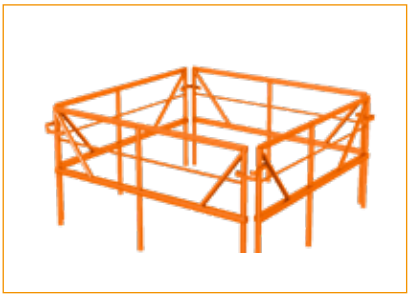
- Used with the wall clamp, this part stabilises props ST1 alu and ST3 alu.

Prop clamp

- Prop clamp to be driven into the wall with concrete screws.

- This clamp can be fitted before or after positioning the prop.

Prop frame



- The prop frame provides a rigid link between 4 props.

- Position the 4 props as desired then fasten the prop frame.

FOR YOUR SAFETY

WARNING

- To use our products safely, please comply with the applicable regulations in each country.
- The items and set-ups presented in this brochure match the characteristics of the equipment on the date on which the document is published. There may have been some changes since then.
- The use of our systems in combination with other manufacturers' systems may involve some risk and requires a specific inspection.
- Please contact the design office for all uses not covered by the following procedure.

Personal protection

- Use of PPE is mandatory.
- Operators setting up and removing equipment must be familiar with the relevant technical user documentation and have understood the steps.

Secure the working area

- Before starting set-up, remember to secure the area.
- Only authorised personnel are allowed to access the working area.
- Check that the collective slab edge protection has been installed.

Installation of Alphi equipment

- Following the recommendations for using the equipment, safety instructions and load specifications ensures that a **site functions properly.**
- The **layout drawings** provided by the Alphi design office - not essential for a slab that is less than 24 cm thick - enable installation of the equipment to be optimised. Their adaptation for reasons relating to the progress of construction remains possible, by following the recommendations of the technical documentation for using the equipment.
- The **stability** of formwork components must be checked at each set-up stage.
- The DalpHi formwork system can be used up to a **gradient of 5%.**
- Use of the equipment must be appropriate for the **weather conditions.**
- The equipment must only be **maintained and repaired** by Alphi or by a user trained by Alphi.
- Alphi recommends that professional tools are used to install the equipment.

Alphi distributes LEBORGNE

Click **here** or scan the QR code to view the video of the procedure.

PREPARATORY STAGE

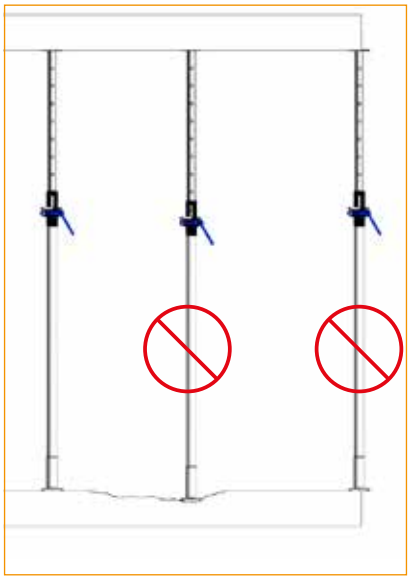

Do not place the props against the wall

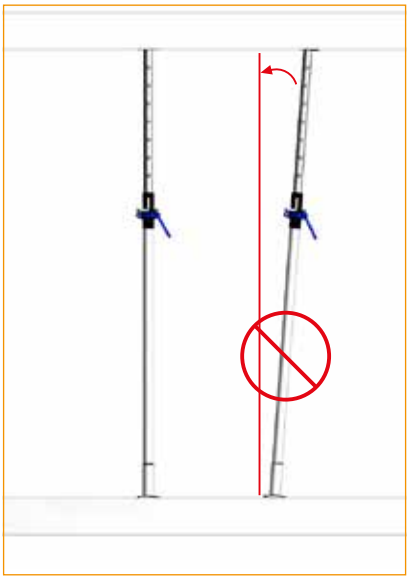
Caution: it is essential to lock the head

N.B.: even if they are not always shown in the image, TopDalle is to be installed by 2 form fitters.

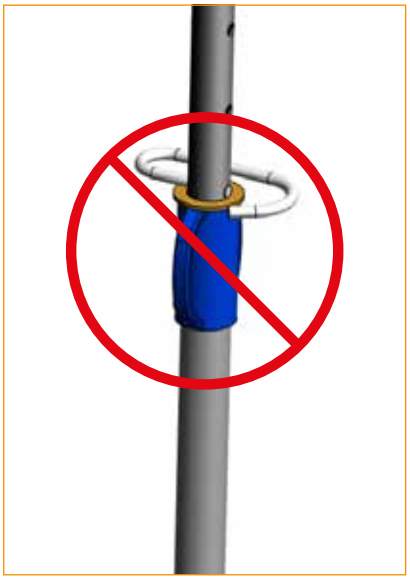
- Reception of equipment on the worksite: check quantities and validate delivery note.
- Precise distribution of the equipment according to the first phases of formwork defined by the layout drawing.
- Adjustment of prop height and positioning of formwork heads in formed position: locking with hammer.
- Adjust props to the correct height by positioning them horizontally.
- Do not remove pins while the props are under load.

INSTALLATION OF PROPS


- Supporting surfaces must be plane and stable.


- Ensure that the prop is vertical.

Verticality tolerance ∠1° *Equivalents*	
Allowable offset at the foot = d (cm)	For a height of… (m)
4	2.50
5	3.00
6	3.50


- The pin must be correctly inserted and must rest on the washer.

USER GUIDE: FORMWORK

- Starting from one corner of the room, mount one primary beam on 2 technical supports (ST) stabilised by tripods.
- Start mounting a secondary beam on a third ST.
- Store the plywood panels on the floor or in wheeled racks.
- Use a rolling safety ladder in compliance with the regulations.

Caution: engage the primary beams on the large bushings of the technical support.

- Place a second primary beam on another ST.

➔ Refer to calculation chart.

- Finish setting up the secondary beams.
- Do not leave gaps greater than 39 cm.
- Use a template to ensure compliance with 39 cm spacing.

➔ Observe the layout plan.

- Set up another primary beam on ST.

- Move the secondary beams forwards from one to the next.

- Finish setting up the secondary beams.

- Set up another secondary beam on ST.

- Set up another primary beam on ST.

USER GUIDE: FORMWORK

- Move the secondary beams forwards from one to the next.

- Set up another primary beam on ST.

- Move the secondary beams forwards from one to the next, keeping a gap of 39 cm.

- Finish setting up the secondary beams.

USER GUIDE: FORMWORK, FINISHING & CASTING

13

- Adjust the level using a laser level, ST by ST.
- A gauge stick hanging from the formwork allows laser adjustment to be performed by one person.

Conduct a final head locking check at this stage.

14

- When the structure is finished and the height has been adjusted: lay the plywood.
- Use the plywood cutting support (see Accessories p. 9).

➔ Peripheral safety (skin, girder, etc.) ensured beforehand.

15

- Nailing using 40 mm (max.) nails.
- Ensure that a load-bearing member is present under the plywood sheet joins.
- Check the sealing of the formwork between plywood sheets and edges.

It is prohibited to walk on the plywood panels, with the exception of trained personnel authorised to fit plywood panels.

16

- Concrete slab formation.

➔ Spread the concrete on the formwork without overloading the beams and the technical supports.

USER GUIDE: FORMWORK REMOVAL

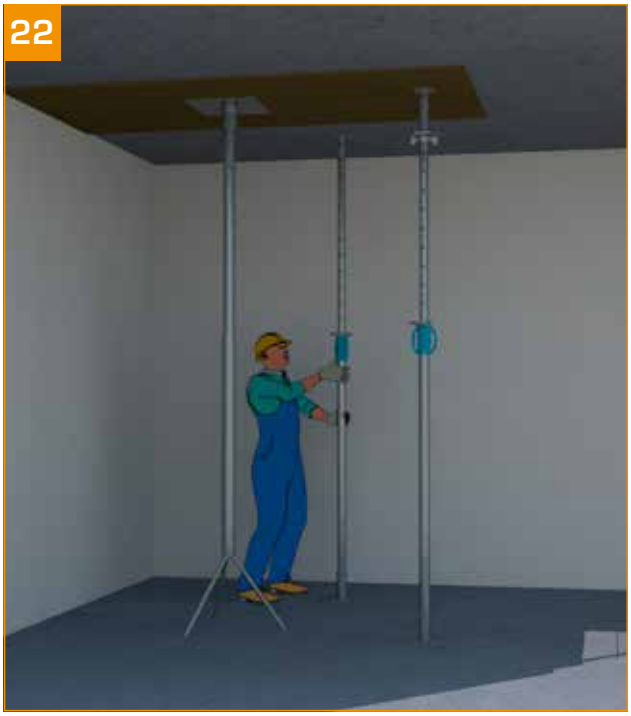
- Formwork removal from slab: strike down the formwork heads from the STs as you progress.
- The primary beams and the secondary beams drop by 14 cm.
- The STs remain in position.

- Formwork removal from slab: remove the secondary beams and finally the primary beams as you progress.
- Store them in the wheeled racks.

- Formwork removal from slab: remove the STs placed at the edge of the cells.
- Leave the other STs in place **for at least 3 days** (depending on the type of concrete and the external temperature).

- Lower the panel elevator to mid-height.
- Remove the plywood sheet.

- Position the panel elevator and remove the corresponding ST.
- Remove the plywood panel using the panel elevator.



- Install the first drying prop, allowing one prop per 5 m^2 (general case).

- Repeat steps 21 and 22.

- Repeat the operations from step 1 on a higher level.

DALPHI FORMWORK INSTALLATION AT EXTRA-HIGH HEIGHTS

1

- Starting from one corner of the room, mount one primary beam on 2 technical supports (ST) stabilised by a prop frame.
- Start mounting a secondary beam on a third ST.
- Store the plywood panels on the floor or in wheeled racks.
- Use a rolling safety ladder.

➔ Refer to calculation chart.

2

- Place a second primary beam on another ST.

- Finish setting up the secondary beams.
- Do not leave gaps greater than 39 cm.
- Use a template to ensure compliance with 39 cm spacing.

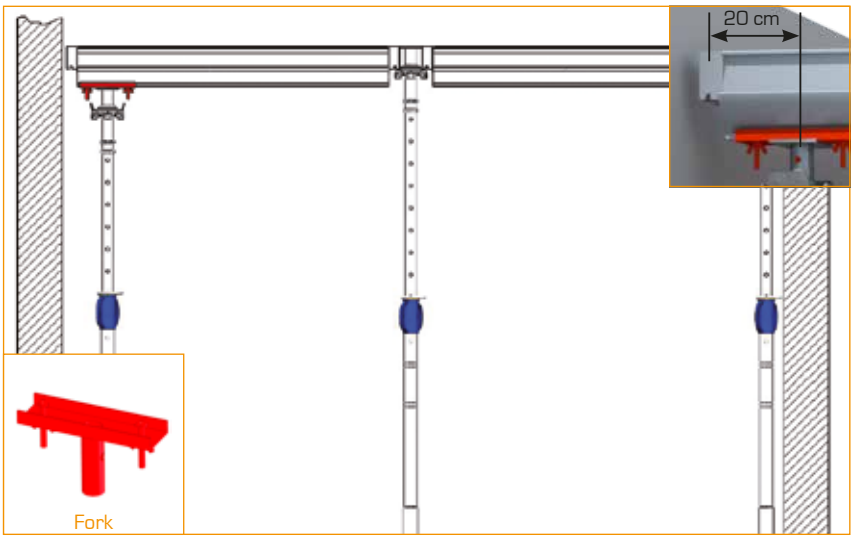
➔ Observe the layout plan.

- Set up another primary beam on ST.
- Repeat the operation as for standard heights.

➔ Use frames instead of tripods: 1 prop frame for 40 m^2 of formwork.

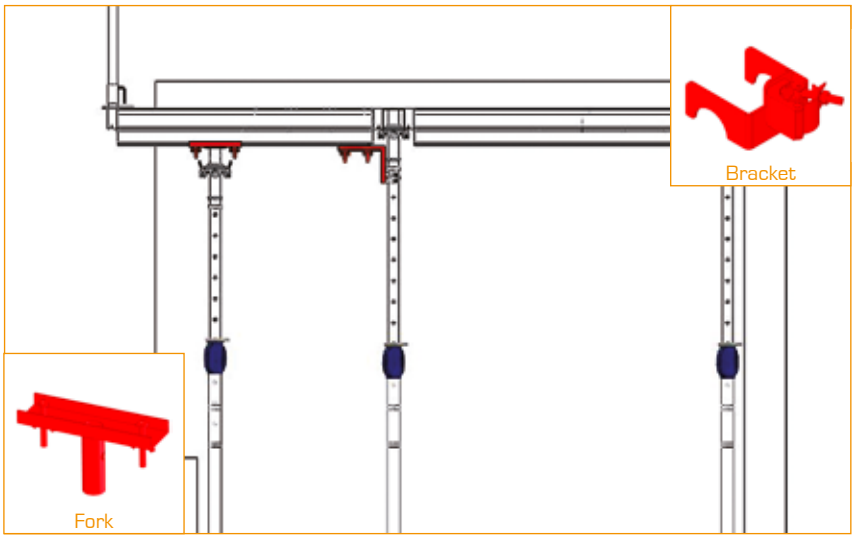
SPECIAL CASES

USE WITH NON-TILT FORK



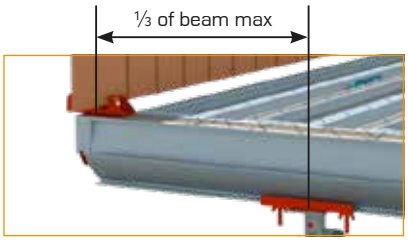
Reduced gap

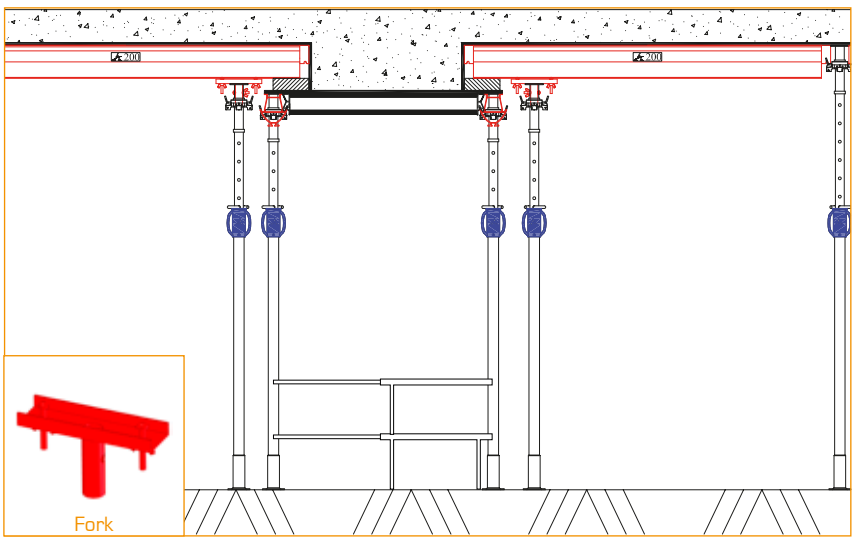
- Use the fork (mounted without using fast formwork removal).
- The fork allows the STs to be positioned under the primary beams and not at the ends, thereby facilitating additional adjustment.



Handling face overhangs

- Use in cantilever configuration with fork and bracket.
- The fork allows you to position the STs under the primary beams and not at the ends, thus offering additional adjustment.



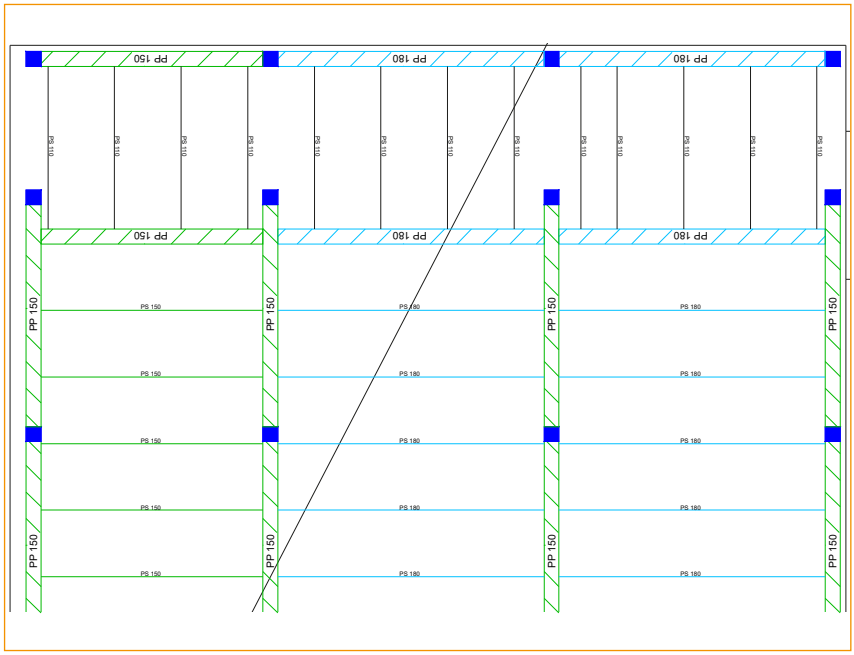


Girder formwork

- Drop less than 35 cm.

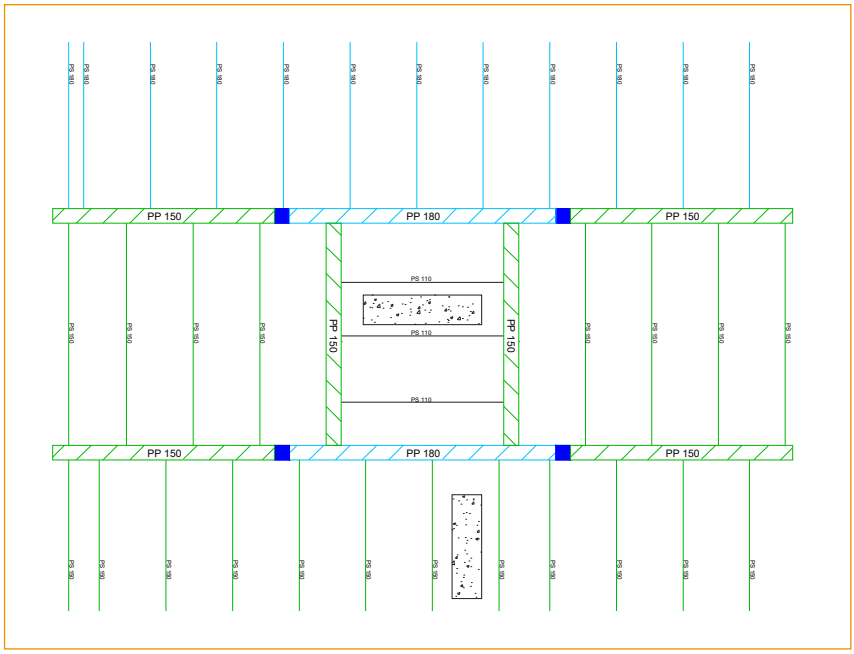
SPECIAL APPLICATIONS

PRIMARY ON PRIMARY IN-DRAWER SET-UP



In-drawer set-up enables the formwork to be adjusted as closely as possible to the walls by means of a primary beam resting perpendicularly on two primary beams.

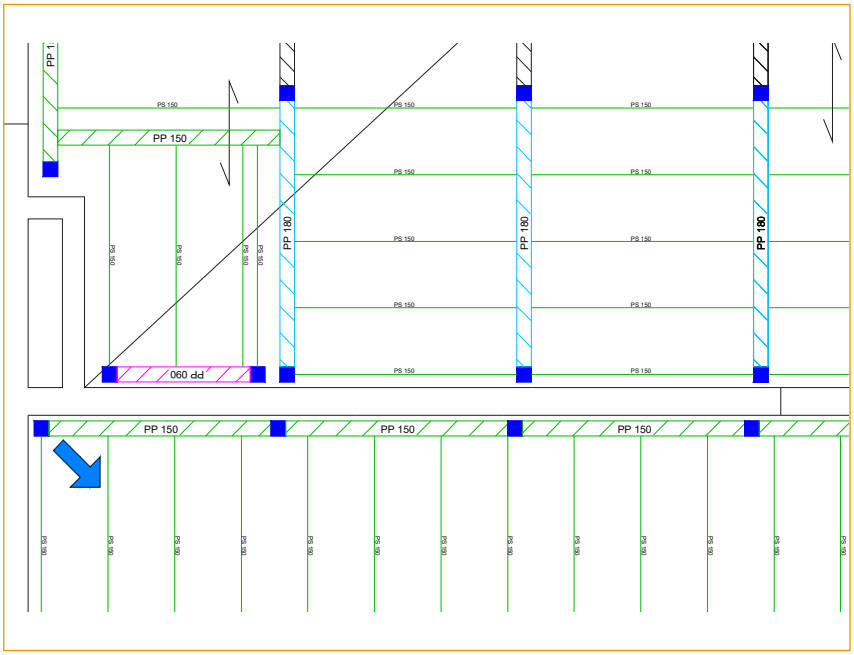
IN-DRAWER SET-UP FOR POSTS



- Where a post is present, when the latter's longest length is parallel to the primary beam, an in-drawer set-up enables gaps to be minimised.
- Conversely, where the longest length is perpendicular to the primary beam, simply attach the secondary components to the post.

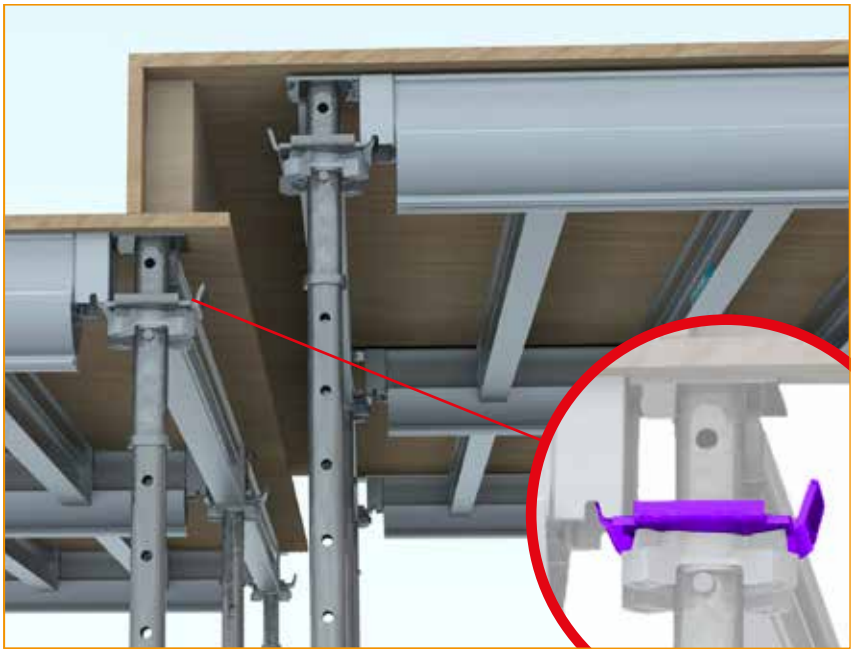
SPECIAL APPLICATIONS

IN-DRAWER SET-UP FOR SERVICE DUCTS



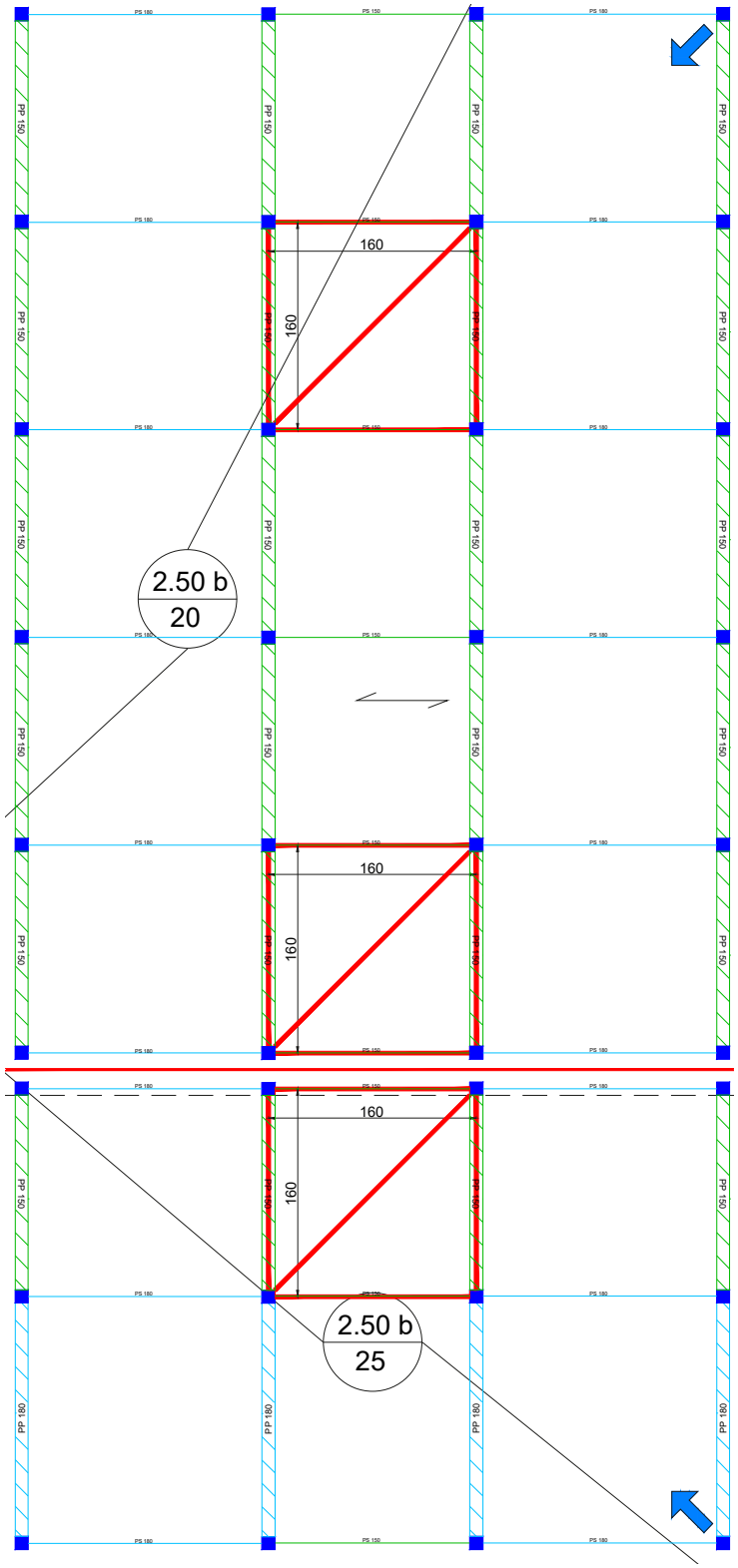
In order to get as close as possible to a tank, such as a service duct, it is possible to use an in-drawer set-up to minimise gaps.

RECESS ON THE UNDERSIDE OF THE SLAB



As the slab levels are different on the underside, it is advisable to install the 2 formwork sections as close as possible to the recess. In this way, the gap will be limited to 20 cm, in compliance with the decree of 2004 relating to falls from height.

PRE-SLAB SHORING

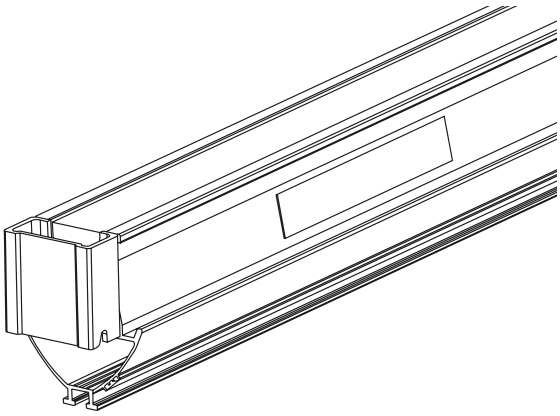


Caution: engage the primary beams on the technical support's large bushings.

PACKING

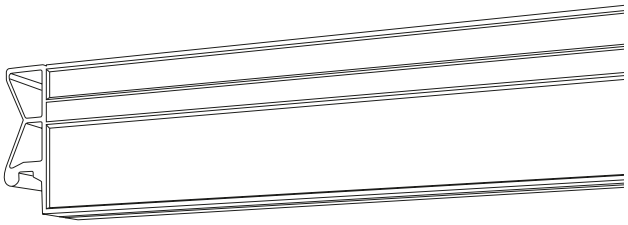
PRIMARY BEAMS

		Rack - SWL PAN MAN 1T500	Galvanised or painted rack PAN MAN NO PAN MAN P NO
PP90	Quantity	**40** beams	**40** beams
	Storage	**5** rows x **8** beams	**5** rows x **8** beams
	Weight (kg)	303	283
	Overall dimensions L x W x H (m)	1.23 x 1.10 x 1.21	1.16 x 1.03 x 1.04
PP110	Quantity	**35** beams	**35** beams
	Storage	**5** rows x **7** beams	**5** rows x **7** beams
	Weight (kg)	318	295
	Overall dimensions L x W x H (m)	1.15 x 1.10 x 1.21	1.15 x 1.03 x 1.04
PP150	Quantity	**35** beams	**35** beams
	Storage	**5** rows x **7** beams	**5** rows x **7** beams
	Weight (kg)	415	392
	Overall dimensions L x W x H (m)	1.55 x 1.10 x 1.21	1.55 x 1.03 x 1.04
PP180	Quantity	**35** beams	**35** beams
	Storage	**5** rows x **7** beams	**5** rows x **7** beams
	Weight (kg)	556	533
	Overall dimensions L x W x H (m)	1.85 x 1.10 x 1.21	1.85 x 1.03 x 1.04
PPE90-110	Quantity	**22** beams	**22** beams
	Storage	**1** row x **6** beams **1** row x **5** beams **1** row x **6** beams **1** row x **5** beams	**1** row x **6** beams **1** row x **5** beams **1** row x **6** beams **1** row x **5** beams
	Weight (kg)	206	183
	Overall dimensions L x W x H (m)	1.23 x 1.10 x 1.21	1.16 x 1.03 x 1.04



In order to ensure optimum safety and stability, equipment handled using racks must be tethered and the weight distributed.

SECONDARY BEAMS



		Rack - SWL PAN MAN 1T500	Galvanised or painted rack PAN MAN NO PAN MAN P NO
PS110	Quantity	**120** beams	**110** beams
	Storage	**7** rows x **16** beams + **8** flat beams	**6** rows x **16** beams + **14** beams
	Weight (kg)	517	455
	Overall dimensions L x W x H (m)	1.15 x 1.10 x 1.21	1.15 x 1.03 x 1.04

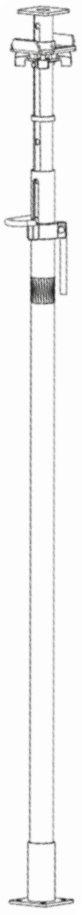
PS150	Quantity	**120** beams	**110** beams
	Storage	**7** rows x **16** beams + **8** flat beams	**6** rows x **16** beams + **14** poutrelles
	Weight (kg)	679	604
	Overall dimensions L x W x H (m)	1.55 x 1.10 x 1.21	1.55 x 1.03 x 1.04

PS180	Quantity	**120** beams	**110** beams
	Storage	**7** rows x **16** beams + **8** flat beams	**6** rows x **16** beams + **14** beams
	Weight (kg)	803	718
	Overall dimensions L x W x H (m)	1.85 x 1.10 x 1.21	1.85 x 1.03 x 1.04

PACKING

TECHNICAL SUPPORT (ST) PROPS

		Props rack PAN ETAI	Rack - SWL PAN MAN 1T500
ST1	Quantity	**48** props	**72** props
	Storage	**6** rows x **8** props	**9** rows x **8** props
	Weight (kg)	997	1,043
	Overall dimensions L x W x H (m)	1.95 x 1.05 x 0.95	1.95 x 1.10 x 1.21
ST2	Quantity	**48** props	**64** props
	Storage	**6** rows x **8** props	**8** rows x **8** props
	Weight (kg)	1,035	1,371
	Overall dimensions L x W x H (m)	2.25 x 1.05 x 0.95	2.25 x 1.10 x 1.21
ST2N	Quantity	**48** props	**64** props
	Storage	**6** rows x **8** props	**8** rows x **8** props
	Weight (kg)	1,099	1,456
	Overall dimensions L x W x H (m)	2.25 x 1.05 x 0.95	2.25 x 1.10 x 1.21
ST3	Quantity	**48** props	**56** props
	Storage	**6** rows x **8** props	**7** rows x **8** props
	Weight (kg)	1,235	1,440
	Overall dimensions L x W x H (m)	2.50 x 1.05 x 0.95	2.50 x 1.10 x 1.21
ST3N	Quantity	**48** props	**64** props
	Storage	**6** rows x **8** props	**8** rows x **8** props
	Weight (kg)	1,213	1,414
	Overall dimensions L x W x H (m)	2.50 x 1.05 x 0.95	2.50 x 1.10 x 1.21



In order to ensure optimum safety and stability, equipment handled using racks must be tethered and the weight distributed.

PRIMARY BEAM GRID

Grid for primary beams from 0 to 10 m				
P180	P150	P110	P90	Distance between walls (in cm)
0	0	0	1	120
0	0	1	0	140
0	1	0	0	180
1	0	0	0	210
0	0	0	2	220
0	0	1	1	240
0	0	2	0	260
0	1	0	1	280
0	1	1	0	300
1	0	0	1	310
0	0	0	3	320
1	0	1	0	330
0	2	0	0	340
0	0	1	2	340
0	0	2	1	360
1	1	0	0	370
0	1	0	2	380
0	0	3	0	380
2	0	0	0	400
0	1	1	1	400
1	0	0	2	410
0	1	2	0	420
0	0	0	4	420
1	0	1	1	430
0	2	0	1	440
0	0	1	3	440
1	0	2	0	450
0	2	1	0	460
0	0	2	2	460
1	1	0	1	470
0	1	0	3	480
0	0	3	1	480
1	1	1	0	490
2	0	0	1	500
0	3	0	0	500
0	1	1	2	500
0	0	4	0	500
1	0	0	3	510
2	0	1	0	520
0	1	2	1	520
0	0	0	5	520
1	2	0	0	530
1	0	1	2	530
0	2	0	2	540
0	1	3	0	540
0	0	1	4	540
1	0	2	1	550
2	1	0	0	560
0	2	1	1	560
0	0	2	3	560

P180	P150	P110	P90	Distance between walls (in cm)
1	1	0	2	570
1	0	3	0	570
0	2	2	0	580
0	1	0	4	580
0	0	3	2	580
3	0	0	0	590
1	1	1	1	590
2	0	0	2	600
0	3	0	1	600
0	1	1	3	600
0	0	4	1	600
1	1	2	0	610
1	0	0	4	610
2	0	1	1	620
0	3	1	0	620
0	1	2	2	620
0	0	5	0	620
0	0	0	6	620
1	2	0	1	630
1	0	1	3	630
2	0	2	0	640
0	2	0	3	640
0	1	3	1	640
0	0	1	5	640
1	2	1	0	650
1	0	2	2	650
2	1	0	1	660
0	4	0	0	660
0	2	1	2	660
0	1	4	0	660
0	0	2	4	660
1	1	0	3	670
1	0	3	1	670
2	1	1	0	680
0	2	2	1	680
0	1	0	5	680
0	0	3	3	680
3	0	0	1	690
1	3	0	0	690
1	1	1	2	690
1	0	4	0	690
2	0	0	3	700
0	3	0	2	700
0	2	3	0	700
0	1	1	4	700
0	0	4	2	700
3	0	1	0	710
1	1	2	1	710
1	0	0	5	710
2	2	0	0	720
2	0	1	2	720
0	3	1	1	720
0	1	2	3	720

Using the non-tilt safety fork provides an additional adjustment allowance of 15 cm (see page 22).

PRIMARY BEAM GRID

P180	P150	P110	P90	Distance between walls (in cm)
0	0	5	1	720
0	0	0	7	720
1	2	0	2	730
1	1	3	0	730
1	0	1	4	730
2	0	2	1	740
0	3	2	0	740
0	2	0	4	740
0	1	3	2	740
0	0	6	0	740
0	0	1	6	740
3	1	0	0	750
1	2	1	1	750
1	0	2	3	750
2	1	0	2	760
2	0	3	0	760
0	4	0	1	760
0	2	1	3	760
0	1	4	1	760
0	0	2	5	760
1	2	2	0	770
1	1	0	4	770
1	0	3	2	770
4	0	0	0	780
2	1	1	1	780
0	4	1	0	780
0	2	2	2	780
0	1	5	0	780
0	1	0	6	780
0	0	3	4	780
3	0	0	2	790
1	3	0	1	790
1	1	1	3	790
1	0	4	1	790
2	1	2	0	800
2	0	0	4	800
0	3	0	3	800
0	2	3	1	800
0	1	1	5	800
0	0	4	3	800
3	0	1	1	810
1	3	1	0	810
1	1	2	2	810
1	0	5	0	810
1	0	0	6	810
2	2	0	1	820
2	0	1	3	820
0	5	0	0	820
0	3	1	2	820
0	2	4	0	820
0	1	2	4	820
0	0	5	2	820
0	0	0	8	820

P180	P150	P110	P90	Distance between walls (in cm)
3	0	2	0	830
1	2	0	3	830
1	1	3	1	830
1	0	1	5	830
2	2	1	0	840
2	0	2	2	840
0	3	2	1	840
0	2	0	5	840
0	1	3	3	840
0	0	6	1	840
0	0	1	7	840
3	1	0	1	850
1	4	0	0	850
1	2	1	2	850
1	1	4	0	850
1	0	2	4	850
2	1	0	3	860
2	0	3	1	860
0	4	0	2	860
0	3	3	0	860
0	2	1	4	860
0	1	4	2	860
0	0	7	0	860
0	0	2	6	860
3	1	1	0	870
1	2	2	1	870
1	1	0	5	870
1	0	3	3	870
4	0	0	1	880
2	3	0	0	880
2	1	1	2	880
2	0	4	0	880
0	4	1	1	880
0	2	2	3	880
0	1	5	1	880
0	1	0	7	880
0	0	3	5	880
3	0	0	3	890
1	3	0	2	890
1	2	3	0	890
1	1	1	4	890
1	0	4	2	890
4	0	1	0	900
2	1	2	1	900
2	0	0	5	900
0	4	2	0	900
0	3	0	4	900
0	2	3	2	900
0	1	6	0	900
0	1	1	6	900
0	0	4	4	900
3	2	0	0	910
3	0	1	2	910

P180	P150	P110	P90	Distance between walls (in cm)
1	3	1	1	910
1	1	2	3	910
1	0	5	1	910
1	0	0	7	910
2	2	0	2	920
2	1	3	0	920
2	0	1	4	920
0	5	0	1	920
0	3	1	3	920
0	2	4	1	920
0	1	2	5	920
0	0	5	3	920
0	0	0	9	920
3	0	2	1	930
1	3	2	0	930
1	2	0	4	930
1	1	3	2	930
1	0	6	0	930
1	0	1	6	930
4	1	0	0	940
2	2	1	1	940
2	0	2	3	940
0	5	1	0	940
0	3	2	2	940
0	2	5	0	940
0	2	0	6	940
0	1	3	4	940
0	0	6	2	940
0	0	1	8	940
3	1	0	2	950
3	0	3	0	950
1	4	0	1	950
1	2	1	3	950
1	1	4	1	950
1	0	2	5	950
2	2	2	0	960
2	1	0	4	960
2	0	3	2	960
0	4	0	3	960
0	3	3	1	960
0	2	1	5	960
0	1	4	3	960
0	0	7	1	960
0	0	2	7	960
5	0	0	0	970
3	1	1	1	970
1	4	1	0	970
1	2	2	2	970
1	1	5	0	970
1	1	0	6	970
1	0	3	4	970
4	0	0	2	980
2	3	0	1	980

P180	P150	P110	P90	Distance between walls (in cm)
2	1	1	3	980
2	0	4	1	980
0	6	0	0	980
0	4	1	2	980
0	3	4	0	980
0	2	2	4	980
0	1	5	2	980
0	1	0	8	980
0	0	8	0	980
0	0	3	6	980
3	1	2	0	990
3	0	0	4	990
1	3	0	3	990
1	2	3	1	990
1	1	1	5	990
1	0	4	3	990
4	0	1	1	1000
2	3	1	0	1000
2	1	2	2	1000
2	0	5	0	1000
2	0	0	6	1000

SECONDARY BEAM GRID

Grid for secondary beams from 0 to 10 m			
PS180	PS150	PS110	Distance between walls (in cm)
0	0	1	140
0	1	0	180
1	0	0	210
0	0	2	260
0	1	1	300
1	0	1	330
0	2	0	340
1	1	0	370
0	0	3	380
2	0	0	400
0	1	2	420
1	0	2	450
0	2	1	460
1	1	1	490
0	3	0	500
0	0	4	500
2	0	1	520
1	2	0	530
0	1	3	540
2	1	0	560
1	0	3	570
0	2	2	580
3	0	0	590
1	1	2	610
0	3	1	620
0	0	5	620
2	0	2	640
1	2	1	650
0	4	0	660
0	1	4	660
2	1	1	680
1	3	0	690
1	0	4	690
0	2	3	700
3	0	1	710
2	2	0	720
1	1	3	730
0	3	2	740
0	0	6	740
3	1	0	750
2	0	3	760
1	2	2	770
4	0	0	780
0	4	1	780
0	1	5	780
2	1	2	800
1	3	1	810

PS180	PS150	PS110	Distance between walls (in cm)
1	0	5	810
0	5	0	820
0	2	4	820
3	0	2	830
2	2	1	840
1	4	0	850
1	1	4	850
0	3	3	860
0	0	7	860
3	1	1	870
2	3	0	880
2	0	4	880
1	2	3	890
4	0	1	900
0	4	2	900
0	1	6	900
3	2	0	910
2	1	3	920
1	3	2	930
1	0	6	930
4	1	0	940
0	5	1	940
0	2	5	940
3	0	3	950
2	2	2	960
5	0	0	970
1	4	1	970
1	1	5	970
0	6	0	980
0	3	4	980
0	0	8	980
3	1	2	990
2	3	1	1,000
2	0	5	1,000

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