

# Dalphi®

FORMWORK



SAVINGS

ADAPTABILITY

LIGHT WEIGHT

## ECONOMICAL ALUMINIUM SLAB FORMWORK

BV Cert. 6150814

ORIGINE  
FRANCE®  
GARANTIE

**Alphi**  
Formwork and solutions

## Dalphi | Economical aluminium slab formwork



# 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<sup>2</sup>/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.**



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



## PRODUCTIVITY

### Installation

25 m<sup>2</sup>/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.

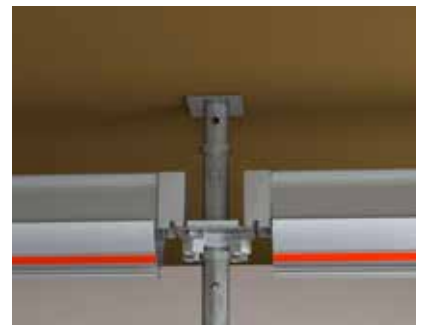
### Hand-portable

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*

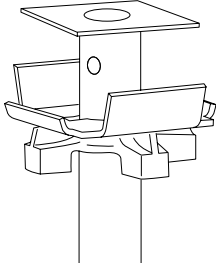



THEFT  
PROTECTION:  
PROTECTED  
ALUMINIUM

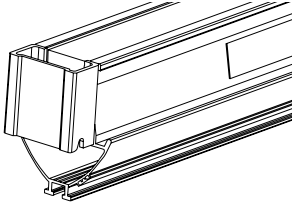




ALL DALPHI  
COMPONENTS  
HAVE BEEN TESTED BY  
THE INDEPENDENT  
LABORATORY LOCIE  
AT THE UNIVERSITY OF  
SAVOIE MONT BLANC.

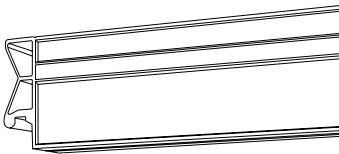





UNIVERSITÉ  
SAVOIE  
MONT BLANC

## 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	<ul style="list-style-type: none"> <li>Integrated drop-head for fast removal (patented system)</li> <li>Base web</li> <li>Hot-dip galvanized</li> <li>Cast iron sleeve</li> </ul>
		ST2		221-350	20.50	
		ST3		250-400	23.50	

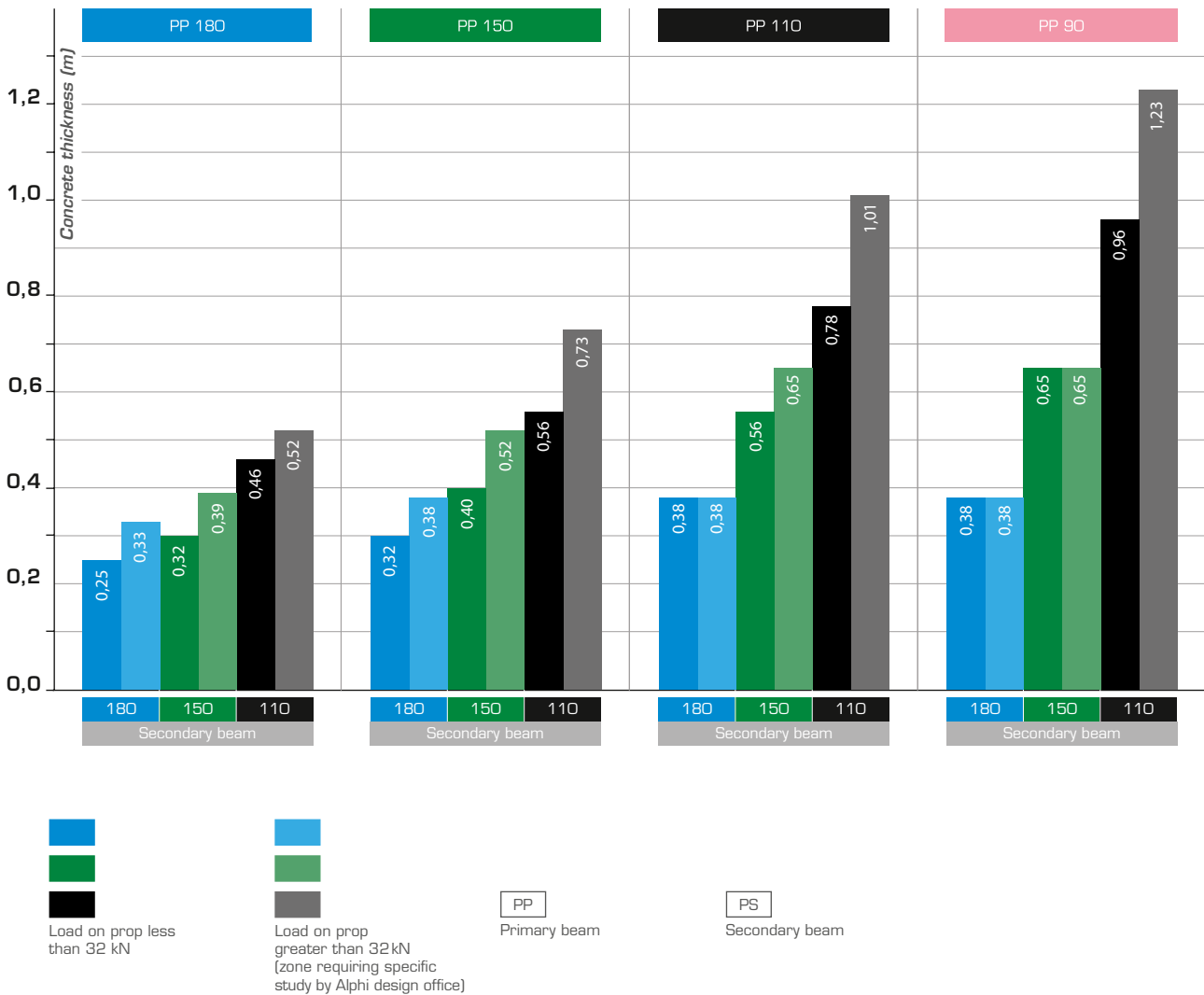
2	Primary beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
Primary		PP 90		90	5.40	<ul style="list-style-type: none"> <li>Theft protection</li> <li>Can be mounted in a drawer</li> <li>30 mm timber inserts, for nailing on plywood using 40 mm nails</li> </ul>
		PP 110		110	6.60	
		PP 150		150	9.00	
		PP 180		180	10.80	

3	Secondary beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
Secondary		PS 110		110	3.00	<ul style="list-style-type: none"> <li>Theft protection</li> <li>Timer inserts for nailing on plywood using 40 mm nails</li> <li>Compatible with other formwork solutions</li> </ul>
		PS 150		150	4.10	
		PS 180		180	4.90	

## USE CALCULATION CHARTS

### Beams

According to the thickness of the floor to be cast, with a centre distance of up to 45 cm between the secondary beams, to observe a deflection of  $L/400$ .

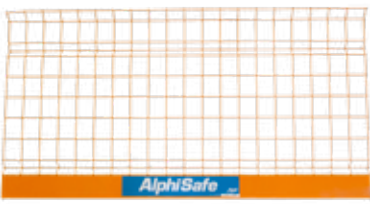

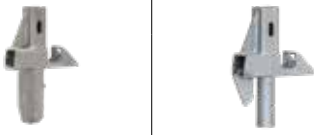




### ST technical supports with integrated drop-head

Name	Colour	Height (cm)	Weight (kg)	Shored height (m) / Working load (kN)																					
				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
ST1	<span style="color: blue;">■</span>	197-300	18.5	40	39	38	37	36	35	35	34	33	33	32	32										
ST2	<span style="color: orange;">■</span>	221-350	20.5				40	39	39	38	37	36	36	35	35	34	34	33	32	32					
ST3	<span style="color: green;">■</span>	250-400	23.5							40	39	39	38	37	37	36	35	34	34	33	33	33	33	32	32



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	<ul style="list-style-type: none"> <li>The wire mesh is galvanized, with polyester powder coating</li> </ul>
			2.40 x 1.30	13.90	
			2.50 x 1.30	14.50	
	Galvanized post*		Cross-section (cm <sup>2</sup> )	Height (m)	Weight (kg)
			3.5 x 3.5	1.34	3.50
	Alphi formwork adapters*		Weight (kg) Primary adapter	Weight (kg) Prop adapter	*Compliant with EN 13374 standard
Primary adapter	Prop adapter	2.30	2.10		
					



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)
		1.05	3.5	1.15	35	<ul style="list-style-type: none"> <li>Bracket: butterfly fastening nut</li> <li>FSAB: hammer head screw</li> </ul>



Leborgne tools	Nanovib® range	Leborgne product characteristics
		<ul style="list-style-type: none"> <li>Tools suitable for fitting and removing Alphi formwork: hammers, hammer holder, prop key</li> <li>Vibration and noise reduction</li> </ul>  <p><a href="#">Click here to view details of Leborgne Tools</a></p>

Handling	Rack	Ranges
		<ul style="list-style-type: none"> <li>Vertical storage rack</li> <li>Galvanized rack on wheels</li> <li>Galvanized handling rack</li> </ul> <p><a href="#">Click here to view details of racks</a></p>
	TransEtais Housing	Description
	<ul style="list-style-type: none"> <li>Easier prop handling</li> <li>Makes it possible to pass through door openings</li> </ul> <p><a href="#">Click here to view details of TransEtais Housing</a></p>	

## DALPHI ACCESSORIES

Aids for use	Plywood cutting support	Dimensions W x L x H (m)	Description
		140 x 2.06 x 86	<ul style="list-style-type: none"> <li>For sale only</li> <li>Circular saw kit and electrical extension available as an option</li> </ul>
	Rolling safety ladder	Working height (m)	Description
		2.5 to 4.33	<ul style="list-style-type: none"> <li>For sale only</li> </ul>

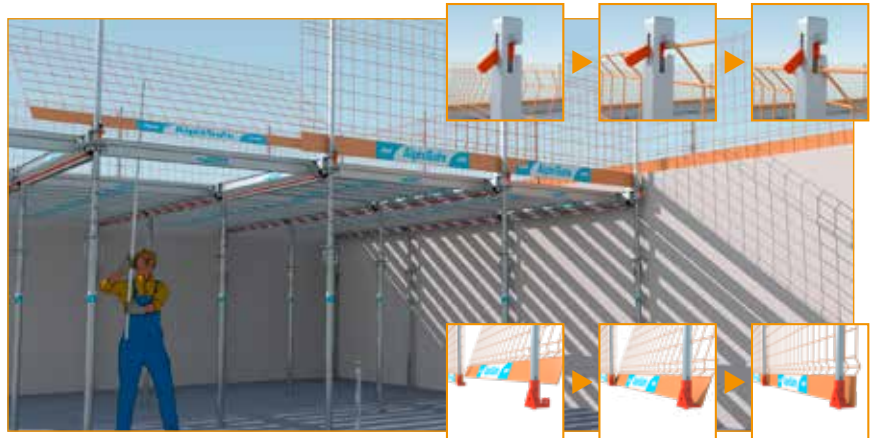
## ALPHISAFE COLLECTIVE PROTECTION

**AlphiSafe** is a collective protection system for formwork and slab edges.

The technical innovations in the system allow **safe installation** and **automatic locking**.

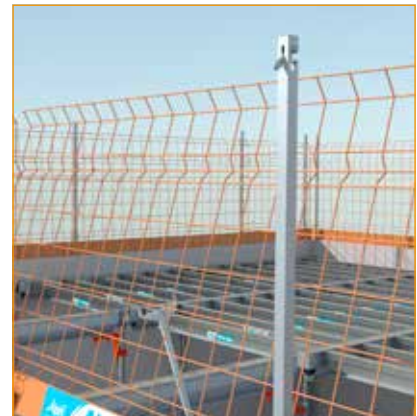
Robust AlphiSafe is certified by Ginger CEBTP, as per the **EN 13374 standard of July 2013**, as class A and B for some components.

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, stabilisation may be recommended.

Contact our Design Office to validate the solution. The different systems are featured below.

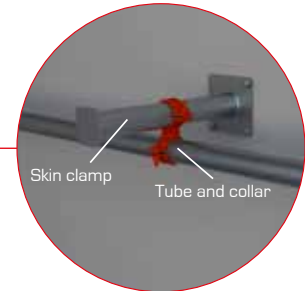
### Skin clamp



- Skin clamp + tube system.



- Set up the stabilisation of the first components. Once stabilised, the tripods can be removed.



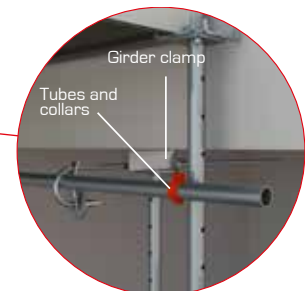
### Girder clamp



- Girder clamp + tube system.



- Set up the stabilisation of the first components. Once stabilised, the tripods can be removed.



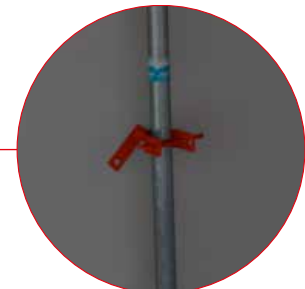
### Prop clamp



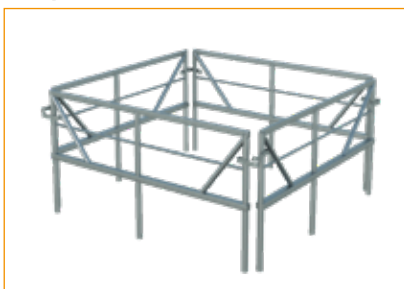
- Prop clamp to be driven into the wall with concrete screws.



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



### Prop frame



- The prop frame can be used to join 4 props with a rigid connection.



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



## WARNING

- To use our products safely, please observe the regulations in force in each country.
- The elements and set-ups presented in this brochure match the characteristics of the equipment on the date of publication of the document. There might have been some changes since then.
- The use of our systems in combination with systems from other manufacturers may involve some risk, and would require special inspection.
- Before starting to set up, remember to secure the area.



Click [here](#) or scan the QR code to view the video of the procedure.

## PREPARATORY STAGE



**N.B.:** even if they are not always shown in the image, Dalphi 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.

## 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 &amp; CASTING



- 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.**



- When the structure is finished and the height has been adjusted: lay the plywood.
  - Use the plywood cutting support (see Accessories p. 10).
- Peripheral safety (skin, girder, etc.) ensured beforehand.



- Nailing using 40 mm (max.) nails.
  - Ensure that a load-bearing member is present under the plywood sheet joints.
  - 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.**



- 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 19 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.

## USER GUIDE: FORMWORK REMOVAL

21



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

22



- Install the first drying prop, allowing one prop per 5 m<sup>2</sup> (general case).

23



- Repeat steps 21 and 22.

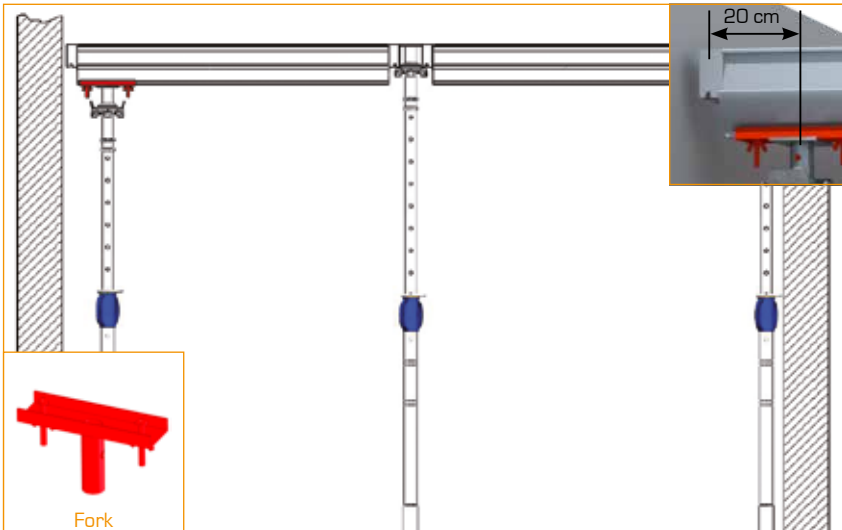
24



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

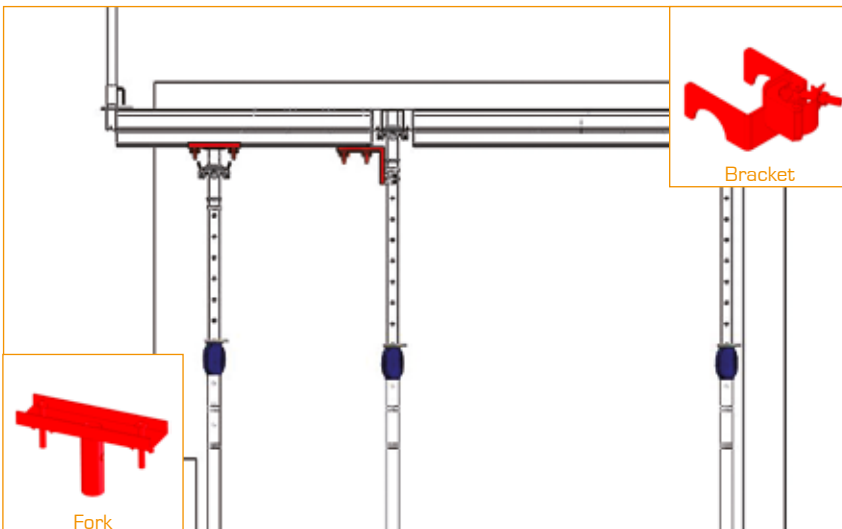
## SPECIAL CASES

### USE WITH NON-TILT FORK



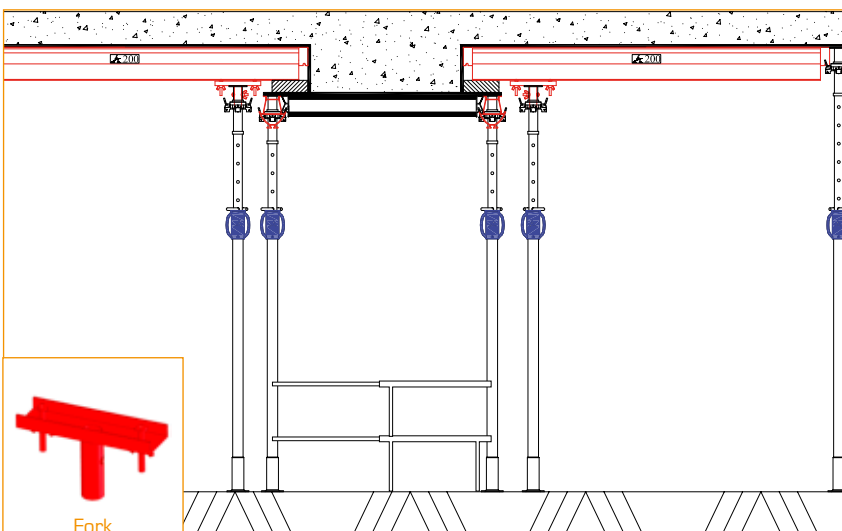
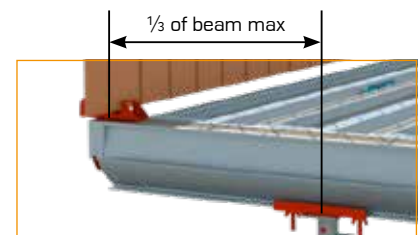
#### Reduced gap

- Use the fork (mounted without using fast formwork removal).



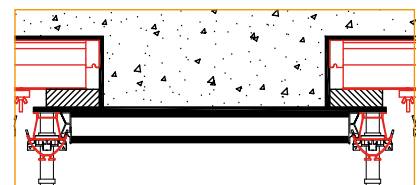
#### Handling face overhangs

- 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.



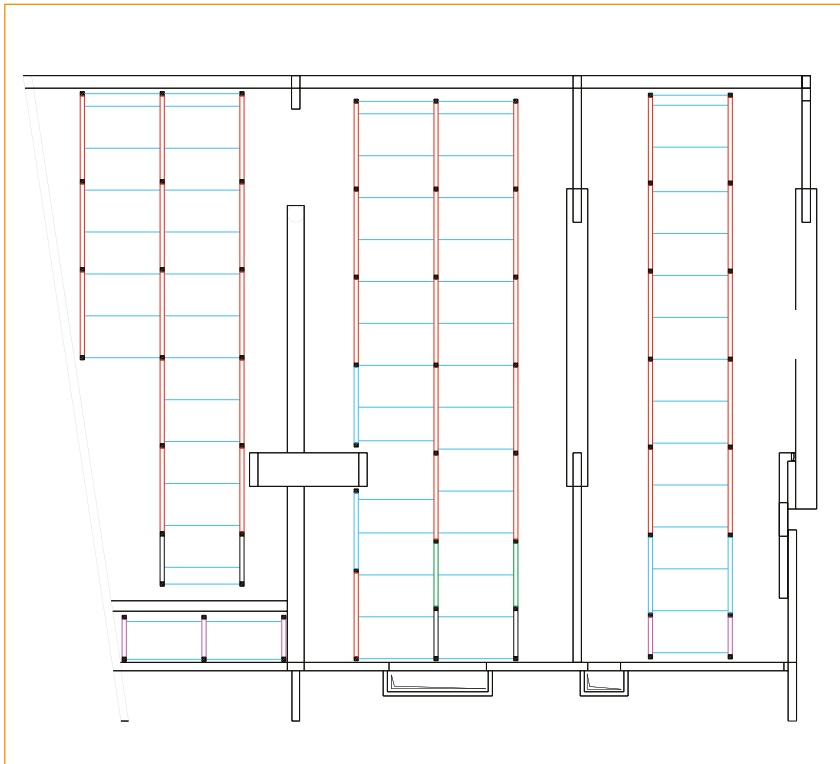
#### Girder formwork

- Drop less than 35 cm.



## SPECIAL APPLICATIONS

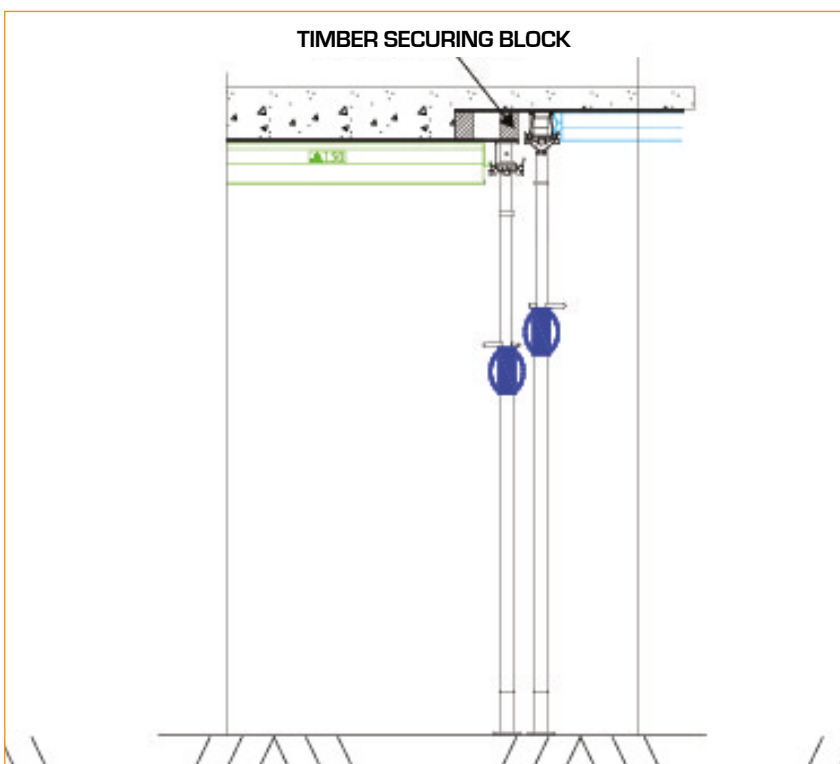
### PRE-SLAB SHORING



- Lines of piles defined as per pre-slab specialist's guidelines. Provide for stability (see layout drawing).

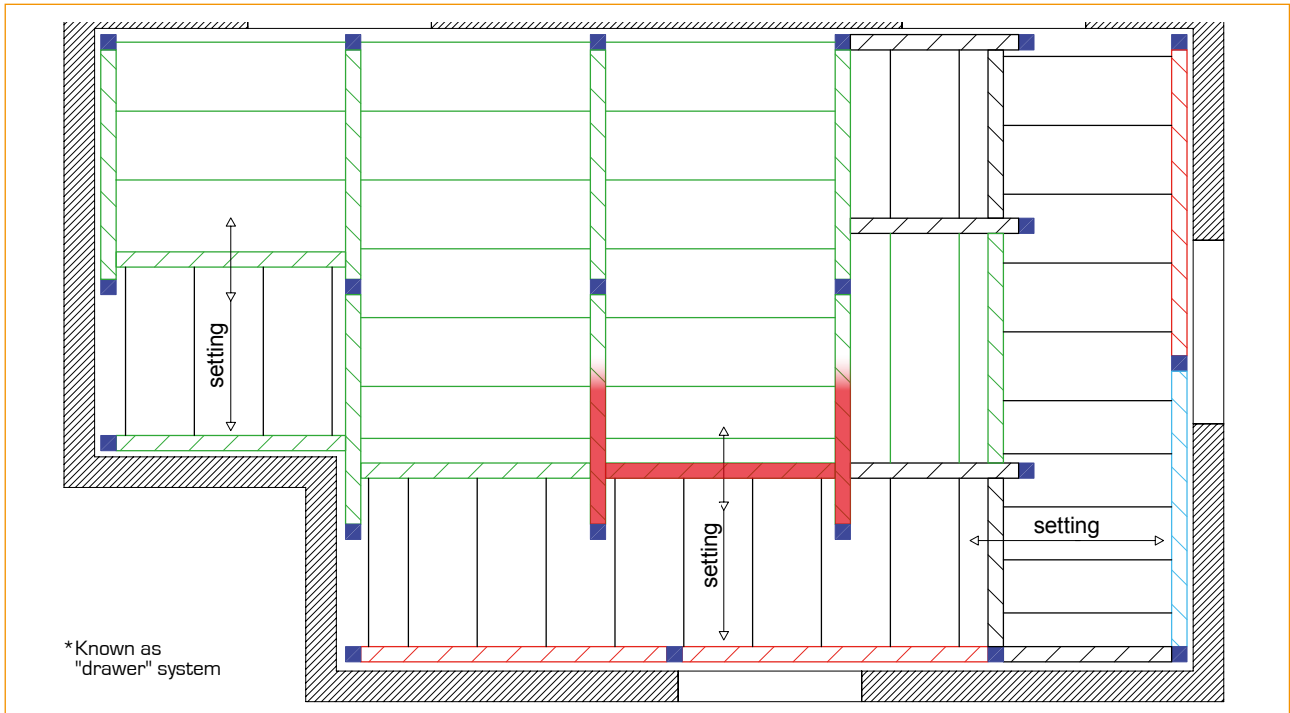


### OFFSET SLAB FORMWORK



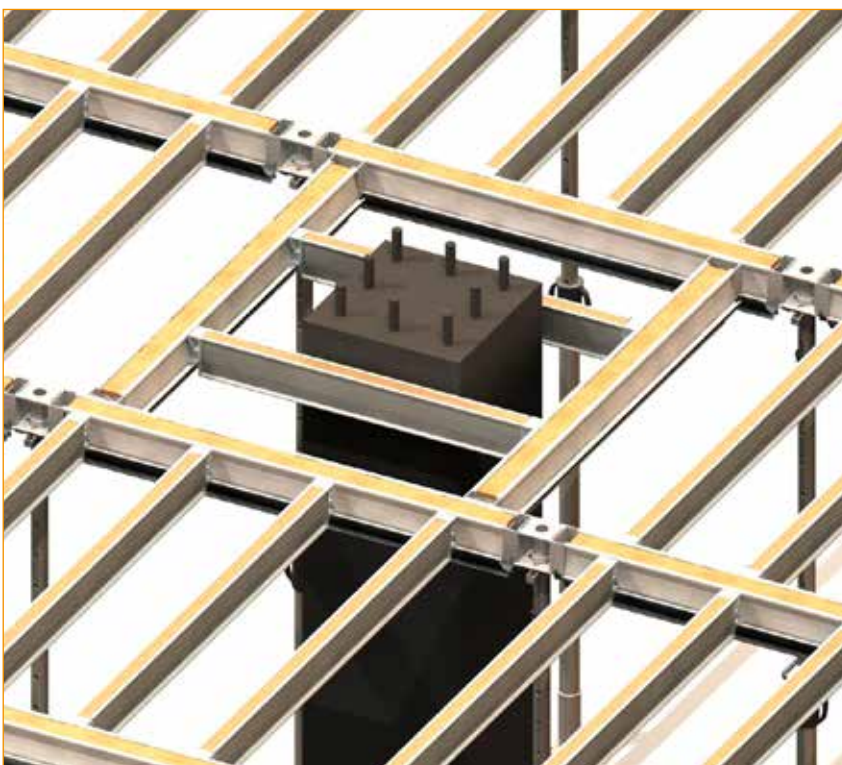
## SPECIAL APPLICATIONS

### PRECISE ADAPTABILITY TO CELL DIMENSIONS\*



Drawer mounting consists of a primary beam resting in the grooves of two perpendicular primary beams.

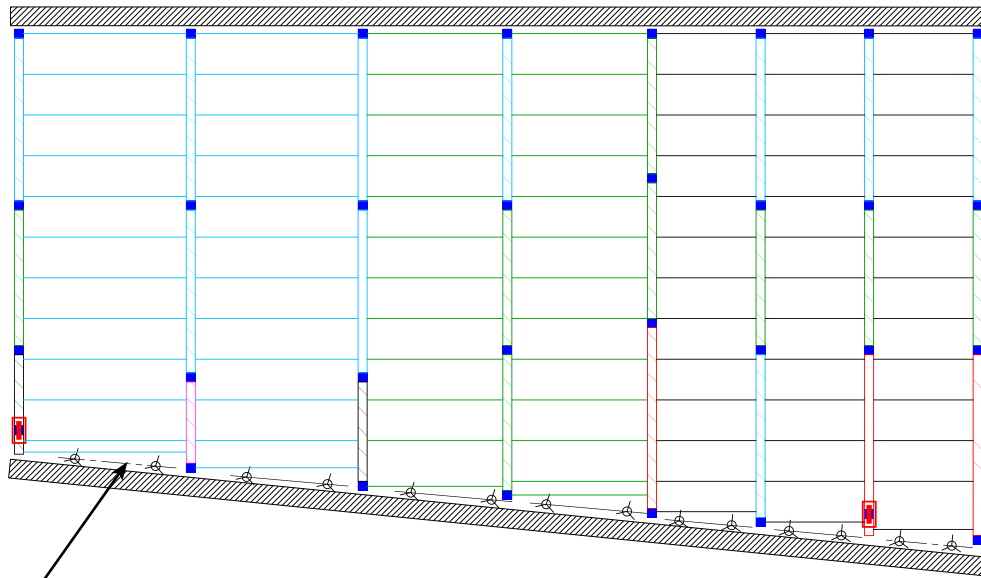
### JOIST FORMWORK



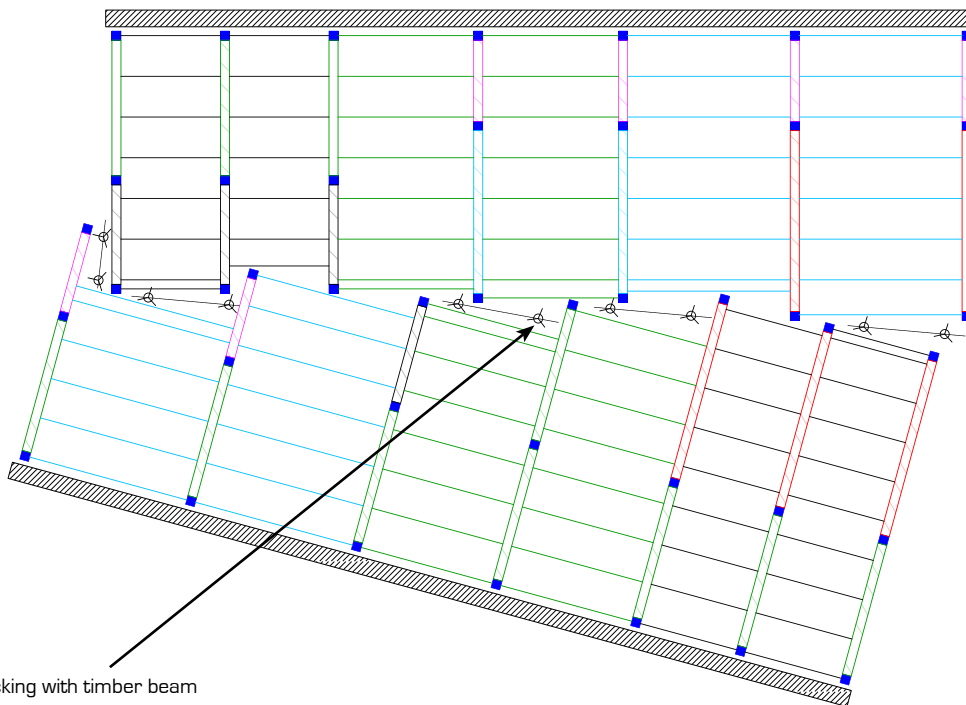
- Primary on primary assembly.



FORMWORK AGAINST OBLIQUE WALL



Chocking with timber beam



Chocking with timber beam

## DALPHI FORMWORK INSTALLATION AT EXTRA-HIGH HEIGHTS



- 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.



- Place a second primary beam on another ST.



## DALPHI FORMWORK INSTALLATION AT EXTRA-HIGH HEIGHTS



- 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<sup>2</sup> of formwork.

## 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 19).

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

## PRIMARY BEAM GRID

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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