Top Dalle eco

FORMWORK

SAFETY | PRODUCTIVITY | ERGONOMICS | QUALITY

SLAB FORMWORK COMBINING SAFETY AND THE ENVIRONMENT

BV Cert. 6150814

ORIGINE FRANCE® GARANTIE

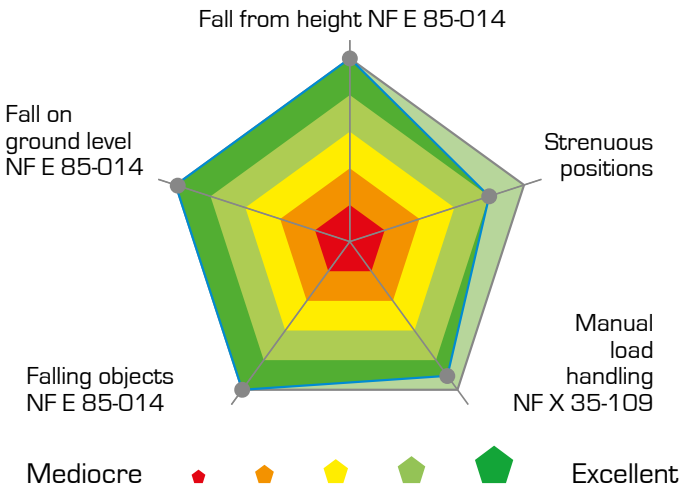
Alphi
Formwork and solutions

Site:
Housing
Client: Eiffage
Location: Paris, 20th district

The versatile TopDalle Eco system suits every type of building: offices, housing, residential care homes, correctional facilities, etc.

Simple and quick to install, the TopDalle Eco systems offers productivity of 33 m^2/person/day at a height of 2.50 m.

Developed by Alphi's R&D department, TopDalle Eco formwork is **compliant with the decree dated 2004 concerning falls from height and meets the requirements of the NF E 85-014 and NF X 35-109 standards** concerning the risks of tripping, slipping and falling objects, as well as manual load handling.



SAFETY AND ARDUOUSNESS PERFORMANCE CHARACTERISTICS

TopDalle Eco is the best-performing formwork of its generation in terms of the constraints of the NF E 85-014 and NF X 35-109 standards.

BV Cert. 6150814

ORIGINE FRANCE® GARANTIE

COMPLIANT WITH THE DECREE OF SEPTEMBER 2004 CONCERNING **FALLS FROM HEIGHT** AND WITH THE **NF E 85-014 AND NF X 35-109 STANDARDS.**

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

UNIVERSITÉ SAVOIE MONT BLANC

THEFT PROTECTION: **PROTECTED ALUMINIUM**

PROTECTED ALUMINIUM – DO NOT REMELT

SAFETY

Worker safety
The work area is secured by full-surface Eco+ panels, preventing falls from height and the risk of tripping, slipping, or falling objects.

Ground-based Eco+ panel fitting and removal.
With TopPerche Eco, formwork is installed and removed from ground level up to 3 m (no need for rolling safety ladder depending on heights).

Increased stability
The multi-support areas of the Eco+ panel, the continuous-support extendable primary beam combined with the extendable secondary corner beam, provide optimum stability.

Theft protection
The chemical process patented by Alphi is a protective measure against the fraudulent recycling of aluminium beams.

PRODUCTIVITY

30 m²/person/day at a height of 2.50 m
(formwork, adjustment, cladding, and formwork removal)

Practical use
- Simplified assembly thanks to adjacent Eco+ panels.
- The range needs fewer products thanks to the extendable primary beam.
- At the end of the span, the spacing of the Eco+ panel can be adjusted to the cell, leaving a gap of up to 10 cm between panels.

Easier identification
Coloured tips allowing easy recognition of different Eco+ panel lengths.

Easy formwork removal
The drop-head for fast removal integrated in the technical support (Alphi patented system) keeps the slab supported during formwork removal: this speeds up the turnaround of the aluminium structure.

Adaptability to complex shapes
- Working on a full surface facilitates mobility above the formwork.
- The continual adjustment of the extendable primary beam and the extendable secondary corner beam lets you go near the edges of the cell.

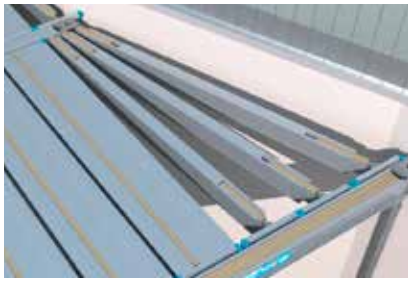
TopDalle Eco improves safety, by making work less arduous, along with environmental protection and use.

SAVINGS

Strength and durability
- Exclusive extrusion process to create wide, monobloc profiles.
- The plastic tips are shock-absorbent, limiting breakage.

Compatibility
TopDalle Eco is compatible with the entire aluminium beam formwork range.

Maintenance
Servicing is simplified because aluminium is easy to repair.



QUALITY

Concrete soffit quality
Superior quality as per DTU 21 guidelines for concrete floors.

Nailing on timber insert
- Plywood (15 mm authorised) secured using nails.
- The asymmetric insert can adapt to different configurations.

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

Cleanliness
The shape of the Eco+ panel limits chalking on the vertical wall.

Concrete formwork thickness of up to 1.23 m, according to configuration.

The extendable beams let you go near the cell edges

ENVIRONMENT

100% "Green"
Designed to limit CO_2 emissions, the Eco+ panel is made of 100% recycled and 100% recyclable aluminium.

Short distribution channels
- The production method implemented by Alphi favours short distribution channels and operators in French industry.
- Procurement-related transport covers distances of less than 460 km.

Fewer lorries
Optimum packing has been achieved by limiting the thickness of the Eco+ panel and designing its shape with a view to obtaining a more compact size. Lorries can now carry 15 % more equipment.

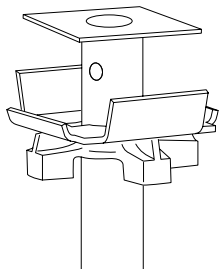
ERGONOMICS

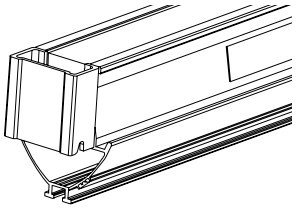
35% less weight
TopDalle Eco hand-portable elements are 35% lighter than conventional solutions.

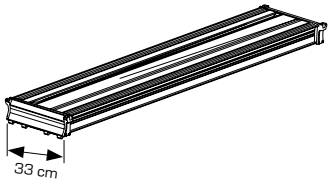
Making work less arduous
The system limits manual load handling.

Less noise pollution
Eco+ panels have shock-absorbent plastic tips, which reduce noise.

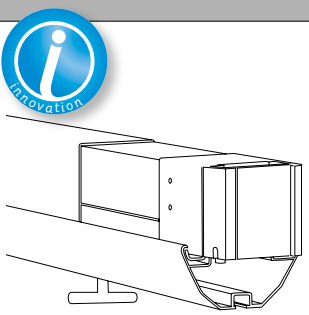
3 COMPONENTS FOR SIMPLE SHAPES

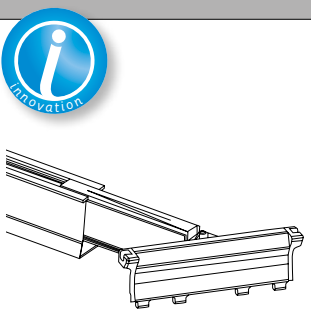
1 Technical supports	Technical support (ST) with integrated drop-head	Name	Colour	Height (cm)	Unit weight (kg)	Description
		ST1		197-300	18.50	▪ Integrated drop-head for fast removal (patented system) ▪ Base web ▪ Hot-dip galvanized ▪ Cast iron sleeve
		ST2		221-350	20.50	
		ST3		250-400	23.50	

2 Primary	Primary beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
		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	Eco+ panel	Name	Colour	Length (cm)	Unit weight (kg)	Description
		Eco+ 110		110	5.40	▪ Anti-tip safety ▪ 33 cm width ▪ Theft protection ▪ Timer inserts for nailing on plywood using 40 mm nails ▪ Coloured tip for easy identification
		Eco+ 150		150	6.90	
		Eco+ 180		180	7.90	

2 COMPONENTS FOR COMPLEX SHAPES (OPTIONAL)

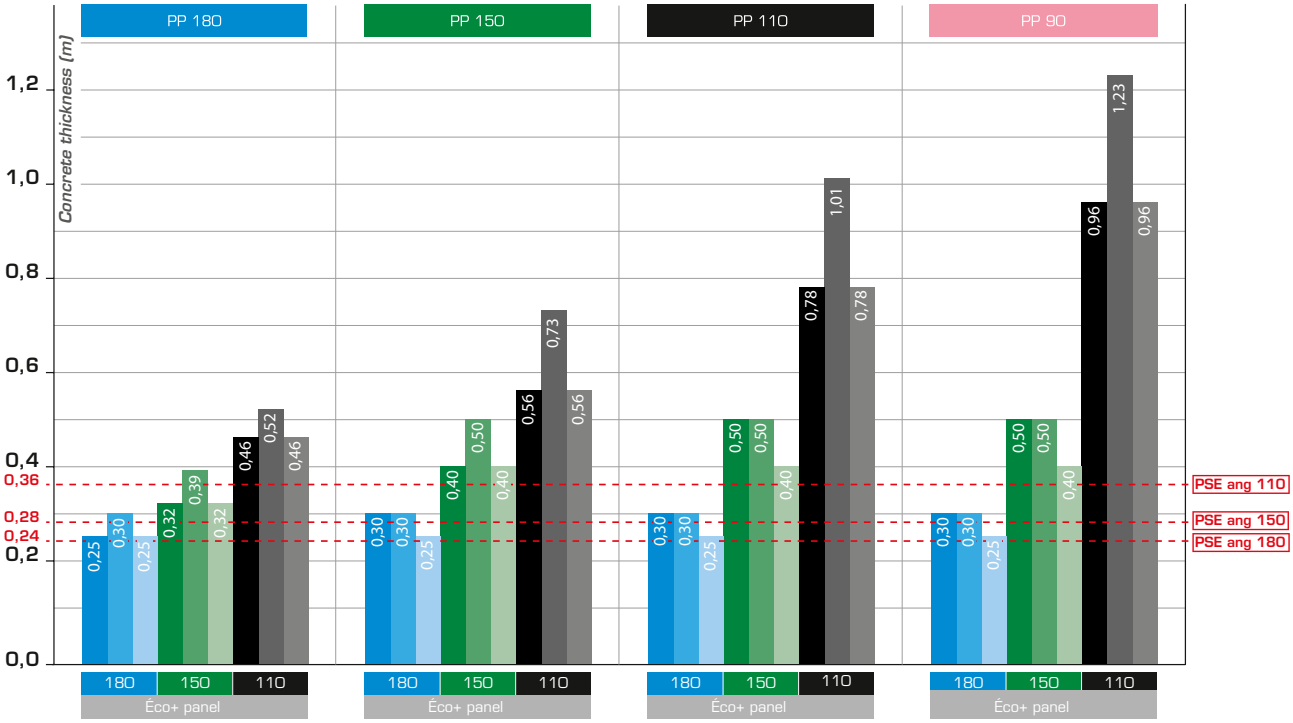
1	Extendable primary beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
Primary		PPE 90-110		90-110	8.10	▪ From 90 to 110 cm, to adapt to all cell sizes ▪ Can be mounted using drawer system ▪ Continuous resting of secondary beams on primary beam

2	Extendable secondary corner beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
Secondary		PSE ang 110		110-135	5.40	▪ Each secondary corner beam must be associated with the secondary beam of the same size (e.g.: PSE ang 110 with PS 110) ▪ Adjustable length ▪ Timber inserts for nailing on plywood ▪ Modular orientation as close as possible to the concrete skin by rotating the tip ▪ Working angles of 0° to 35°
		PSE ang 150		150-180	6.60	
		PSE ang 180		180-220	7.50	

USE CALCULATION CHARTS

Beams

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



ST (32 kN) and beam limit

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

Beam limit with 10 cm spacing

PP
Primary beam

Eco+
Secondary panel

PSE ang
Secondary corner beam

PPE
Extendable primary beam
For PPE beams, the values are:
- 0.36 m for the 110 frame,
- 0.28 m for the 150 frame,
- 0.24 m for the 180 frame.

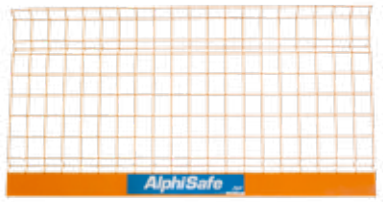
ST technical supports with integrated drop-head

Name	Colour	Height (cm)	Weight (kg)	*Shored height (m)* / Working load (kN)																					
		min-max		*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		197-300	18.5	40	39	38	37	36	35	35	34	33	33	32	32										
ST2		221-350	20.5				40	39	39	38	37	36	36	35	35	34	34	33	32	32					
ST3		250-400	23.5							40	39	39	38	37	37	36	35	34	34	33	33	33	32	32	32

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

TOPDALLE ECO 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
	2.40 x 1.30	13.90	
	2.50 x 1.30	14.50	

Galvanized post*	Cross-section (cm^2)	Height (m)	Weight (kg)
	3.5 x 3.5	1.34	3.50

Alphi formwork adapters*		Weight (kg) Primary adapter	Weight (kg) Prop adapter
Primary adapter	Prop adapter		
		2.30	2.10

*Compliant with EN 13374 standard

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	1.150	35	▪ Bracket: butterfly fastening nut ▪ FSAB: hammer head screw

Installation from ground level

TopPerche Eco	Length (cm)	Unit weight (kg)	Description
	200	1.80	▪ Work from ground level ▪ Risk of falls from height eliminated ▪ Compatible with Eco+ panels

TOPDALLE ECO ACCESSORIES

Leborgne tools

Nanovib® range	Description
	▪ 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

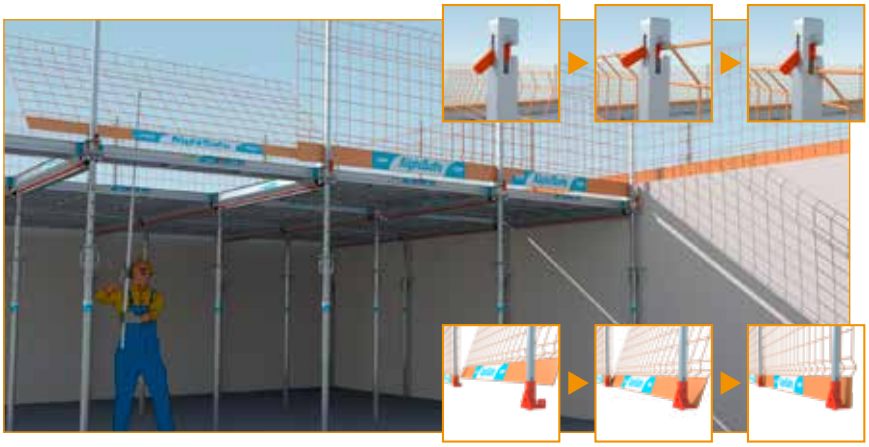
Racks	Ranges
	▪ Vertical storage rack ▪ Galvanized rack on wheels ▪ Galvanized handling rack Click **here** to view details of racks
TransEtais Housing	**Description**
	▪ Easier prop handling ▪ Makes it possible to pass through door openings Click **here** to view details of TransEtais Housing

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)

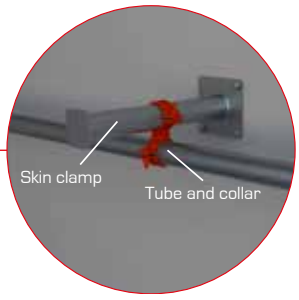
CLAMPING

Depending on the configuration, stabilisation may be recommended.
Contact our Design Office to validate the solution. The different systems are featured below.

Skin clamp

- Skin clamp + tube system.

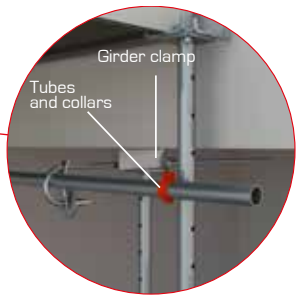
- Set up the stabilisation of the first components. Once stabilised, the tripods can be removed.



Girder clamp

- Girder clamp + tube system.

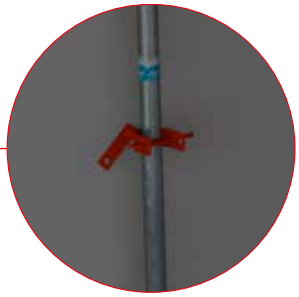
- Set up the stabilisation of the first components. Once stabilised, the tripods can be removed.



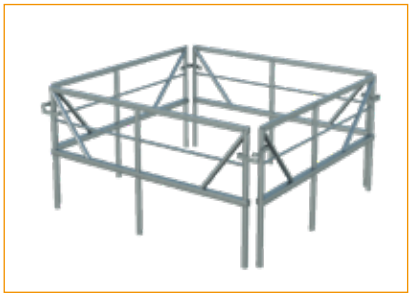
Prop clamp

- 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


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 Eco 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.
- Mount a second primary beam on 2 STs stabilised by tripods.
- Use a rolling safety ladder in compliance with the regulations.

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

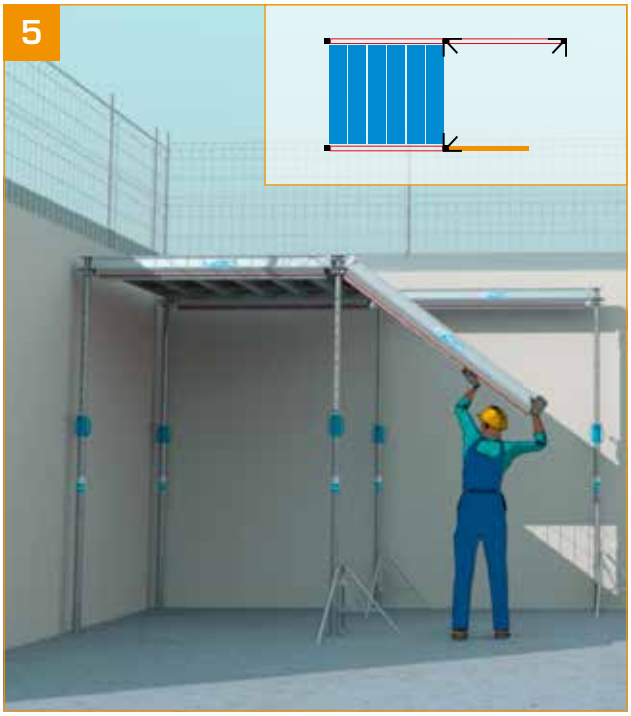
➔ Refer to the layout plan.

- Mounting Eco+ panels using TopPerche Eco.
- Position a panel on the pole, using the panel handles to prevent slipping.

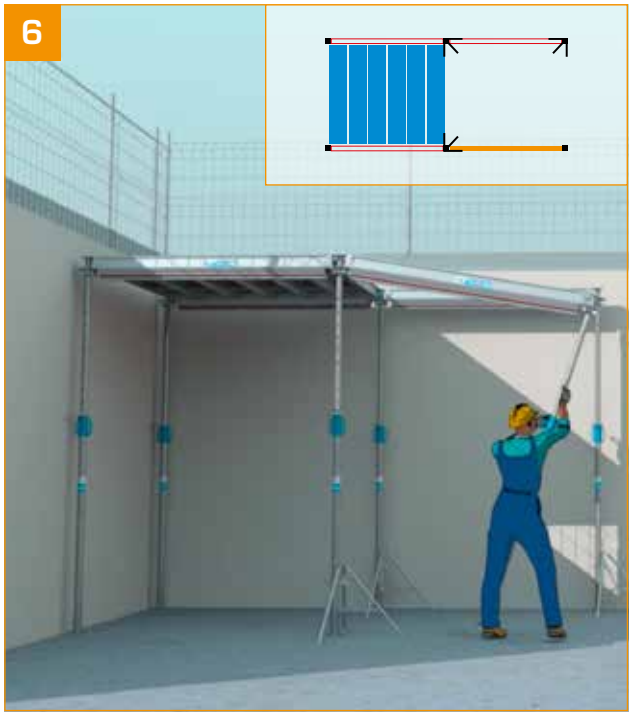
➔ Observe the layout plan.

Start mounting an Eco+ panel:
- the fitter lifts the panel between the 2 primary beams then lowers the TopPerche Eco ensuring that the panel tips are engaged on the primary beams or on the prop head.

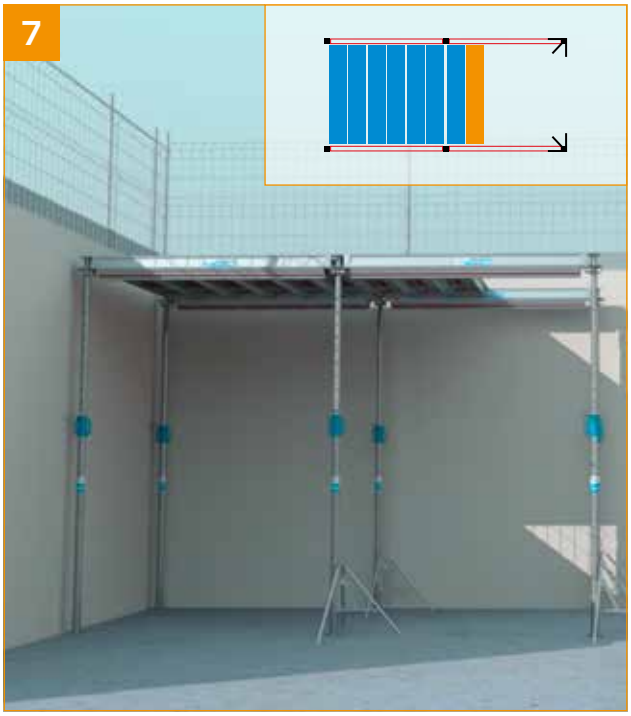
- Mount the Eco+ panels from one to the next using TopPerche Eco.
- Position the adjoined panels.
- A 2 cm gap is retained.



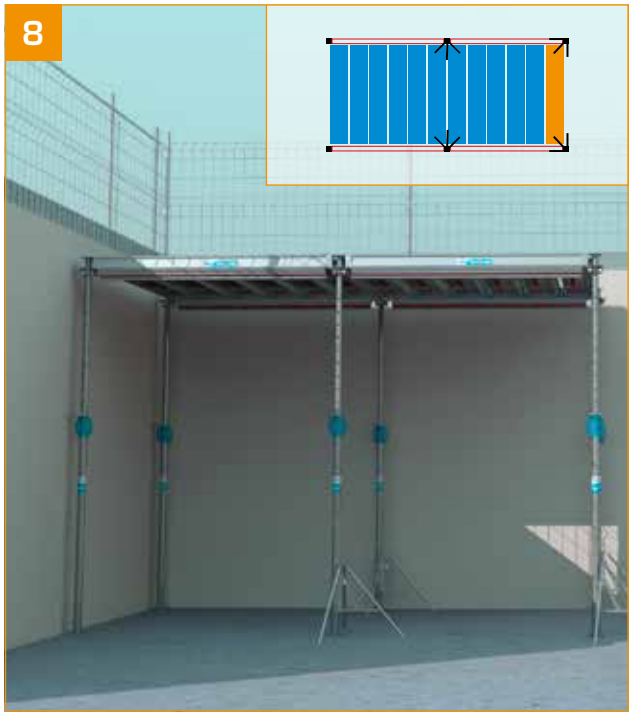
- Mounting a primary beam on ST stabilised by a tripod.



- The fitter uses the prop to position the primary beam.
- Stabilise temporarily with a tripod.



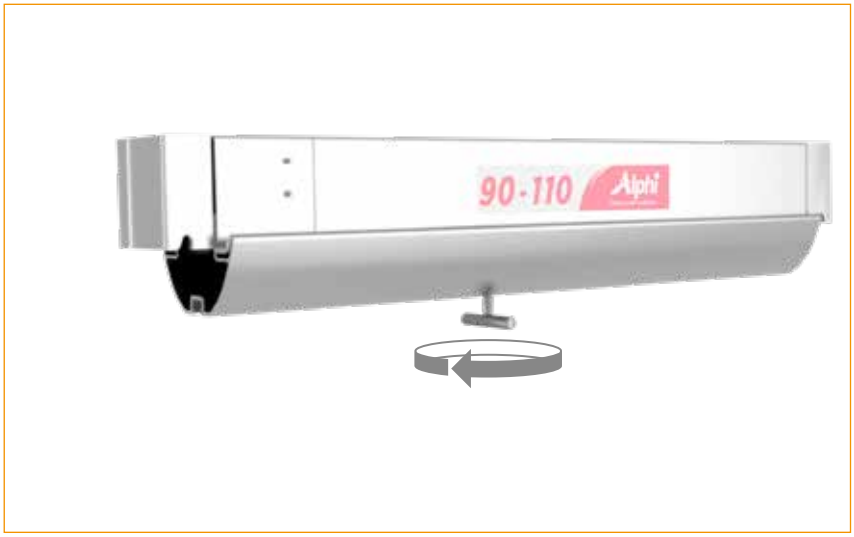
- Adjust the position of the Eco+ panels as shown from step 2 to step 4.



- Repeat steps 5 to 7 and finish installing the Eco+ closest to the wall.

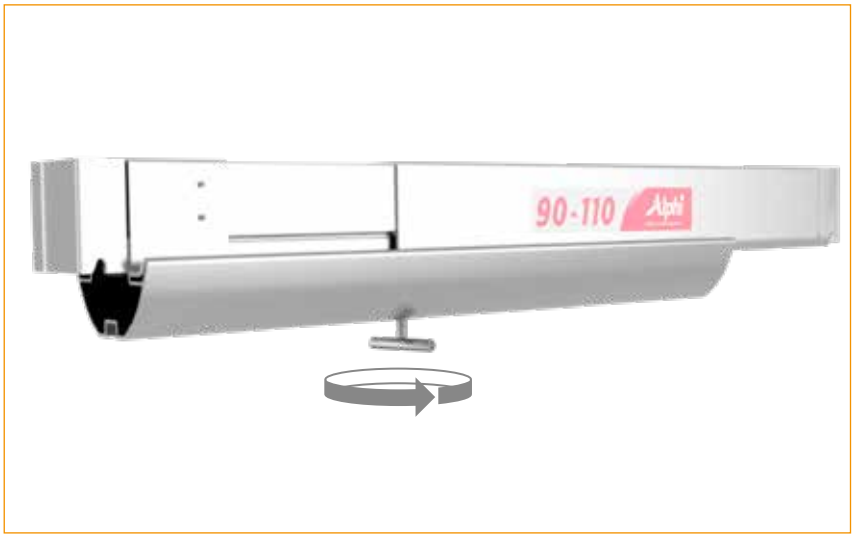
USER GUIDE: FORMWORK

EXTENDABLE BEAM ADJUSTMENT



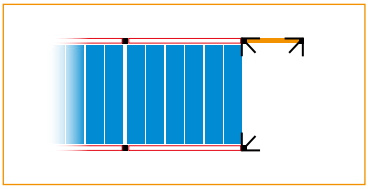
- Release the beam by unfastening the butterfly screw.

- Adjust the beam to the desired size.



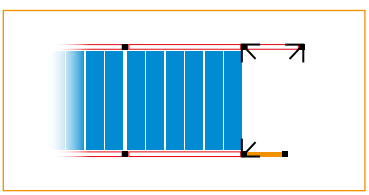
- Lock the beam by fastening the butterfly screw.

9



- Close to the wall, mount the extendable primary beam on stabilised props.
- The extendable primary beam should be adjusted and locked prior to mounting.

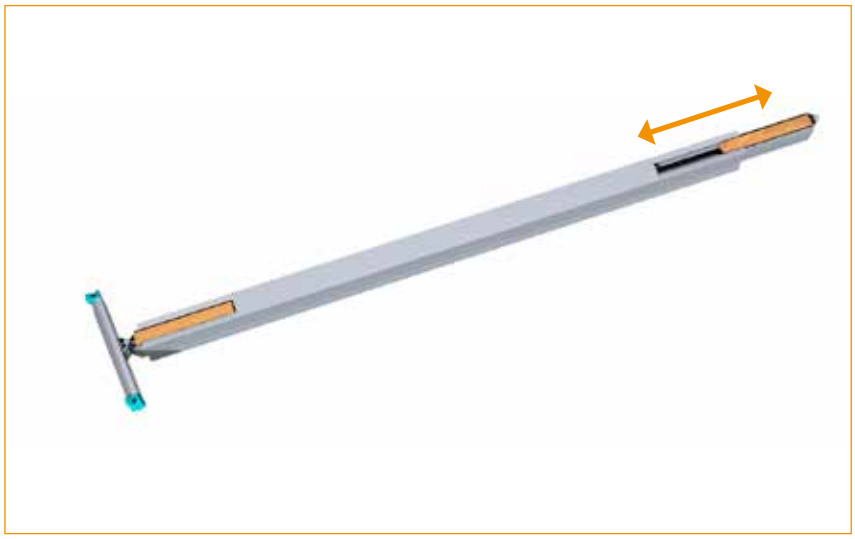
10

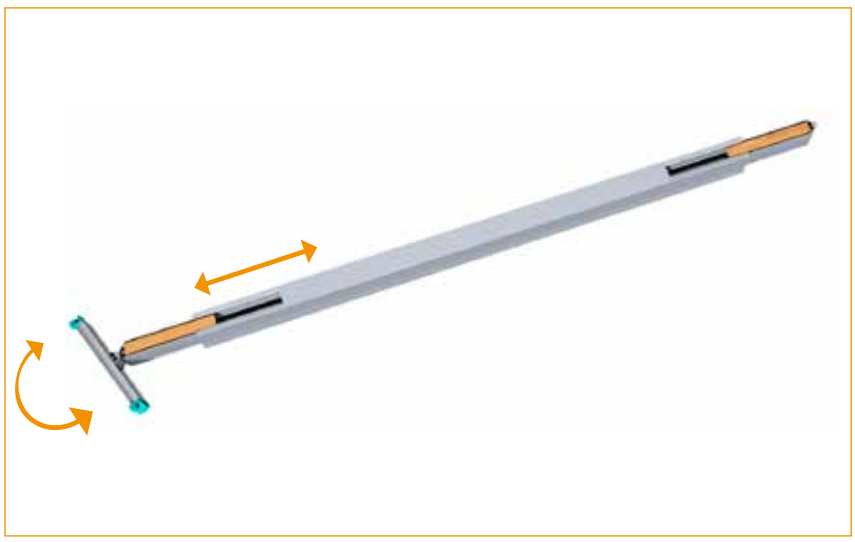


- The fitter uses the prop to position the second extendable primary beam.

USER GUIDE: FORMWORK

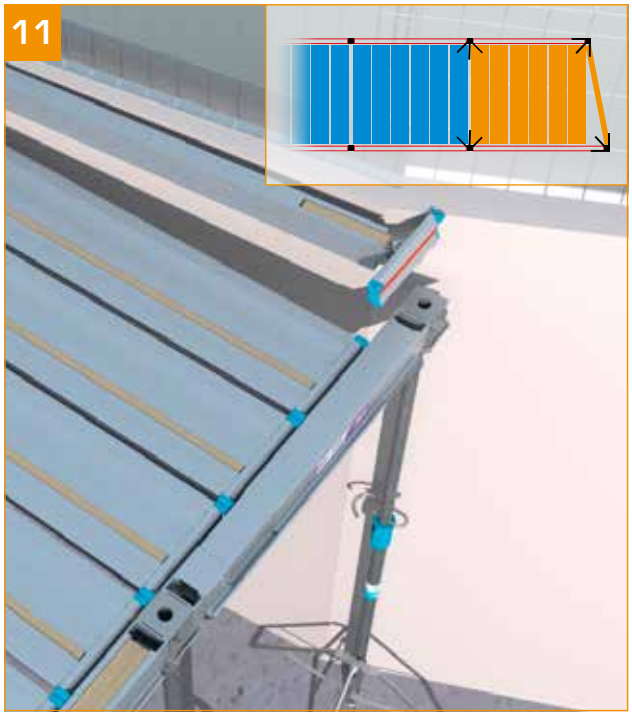
EXTENDABLE SECONDARY CORNER BEAM ADJUSTMENT





- An extendable secondary corner beam is associated with an Eco+ panel type.
- The colour code of the extendable secondary corner beam matches that of the panel for easy identification.
- A symmetrical extension deployment length is preferable.
- The wide tip, including four bearing areas, promotes stability.
- The installation procedure involves joining the wide tips to apply a 19 cm gap.

Eco+ panels	Extendable secondary corner beams	Colour
110	PSE ang 110	
150	PSE ang 150	
180	PSE ang 180	



- Mount the extendable secondary corner beam.

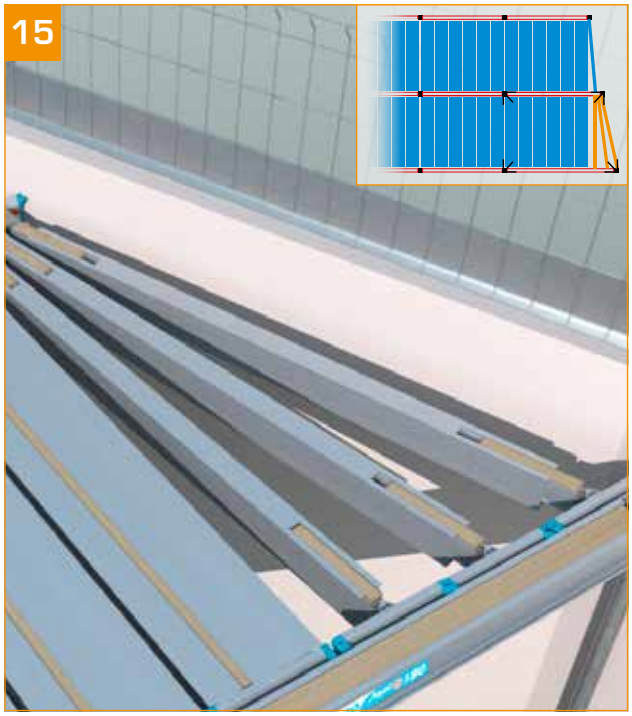
- The hinged heads of the extendable secondary corner beam can be adapted to all configurations.

- Adjust the position of the Eco+ panels.

- Continue to mount Eco+ panels+ progressively using the TopPerche Eco, from one to the next.

USER GUIDE: FORMWORK, FINISHING & CASTING

15

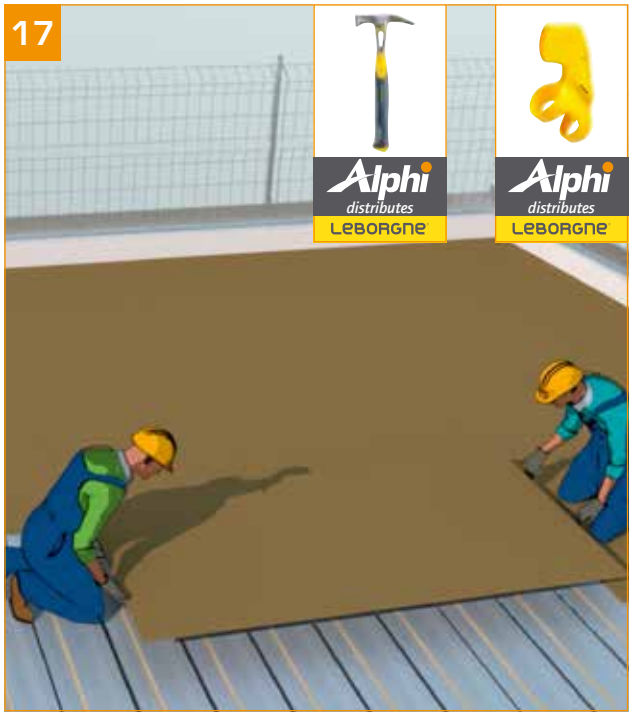


- Repeat steps 13 and 14 and finish installing TopDalle Eco using extendable secondary corner beams if required.

16

- Adjust the level using a laser level, ST by ST.
- A gauge stick hanging from the formwork allows laser level adjustment to be performed by one person.
- Conduct a final head locking check at this stage.

17



- When the structure is finished and the height has been adjusted: lay the plywood.

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

➔ Use of the plywood cutting support.

18

- Nail.
- Ensure that a load-bearing member is present under the plywood sheet joins.
- Check the sealing of the formwork between plywood sheets and at the edges.

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

USER GUIDE: FINISHING & CASTING, FORMWORK REMOVAL

19

- Concrete slab formation after reinforcement and incorporation inclusion.

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

20

- Formwork removal from slab: strike down the formwork heads from the STs as you progress.
- The primary beams and the Eco+ panels drop by 19 cm.
- The STs remain in position.

21

- Formwork removal from slab: remove the Eco+ panels as you progress using the TopPerche Eco.

22

- ... followed by the primary beams.

USER GUIDE: FORMWORK REMOVAL

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

- Use a panel elevator to remove the plywood.

- Repeat steps 23 and 24.

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

TOPDALLE ECO FORMWORK INSTALLATION AT EXTRA-HIGH HEIGHTS

- Starting from one corner of the room, mount 4 technical supports (ST) stabilised by a prop frame.
- Mount the first two primary beams.
- Use the rolling safety ladder in compliance with regulations.

➔ Refer to the layout plan.

- Adjoin the panels. A 2 cm gap appears.

➔ Observe the layout plan.

TOPDALLE ECO FORMWORK INSTALLATION AT EXTRA-HIGH HEIGHTS

- Finish setting up the Éco+ panels.

- Adjoin the panels. A 2 cm gap appears.

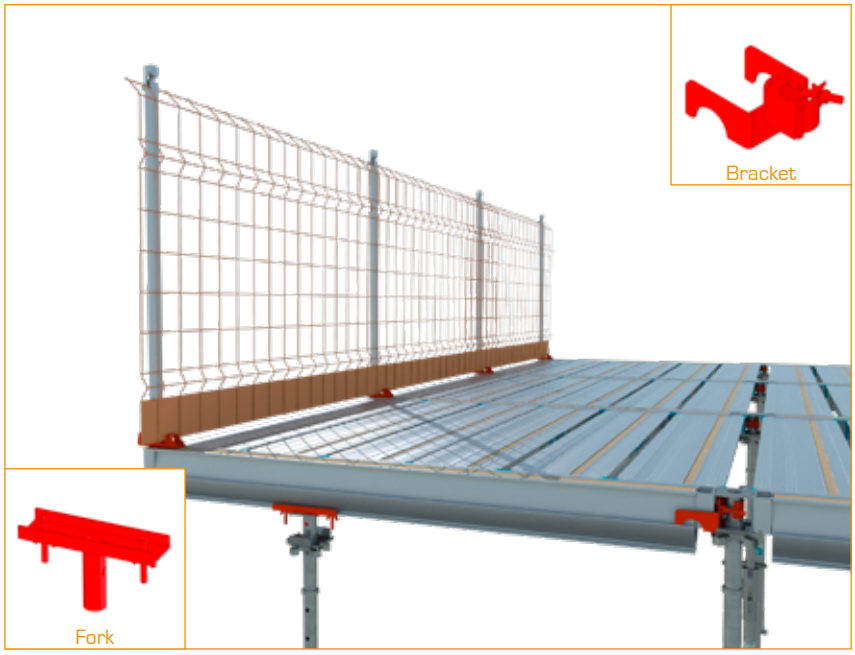
➔ Observe the layout plan.

SPECIAL CASES

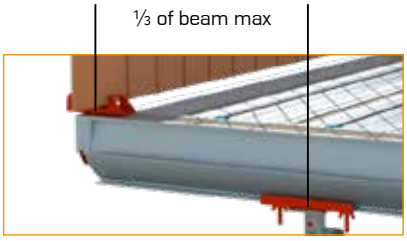
REDUCED GAP

- Use the fork under the primary beam **(mounted without using fast formwork removal).**
- The fork allows you to position the STs under the primary beams and not at the ends, thus offering additional adjustment.

HANDLING FACE OVERHANGS

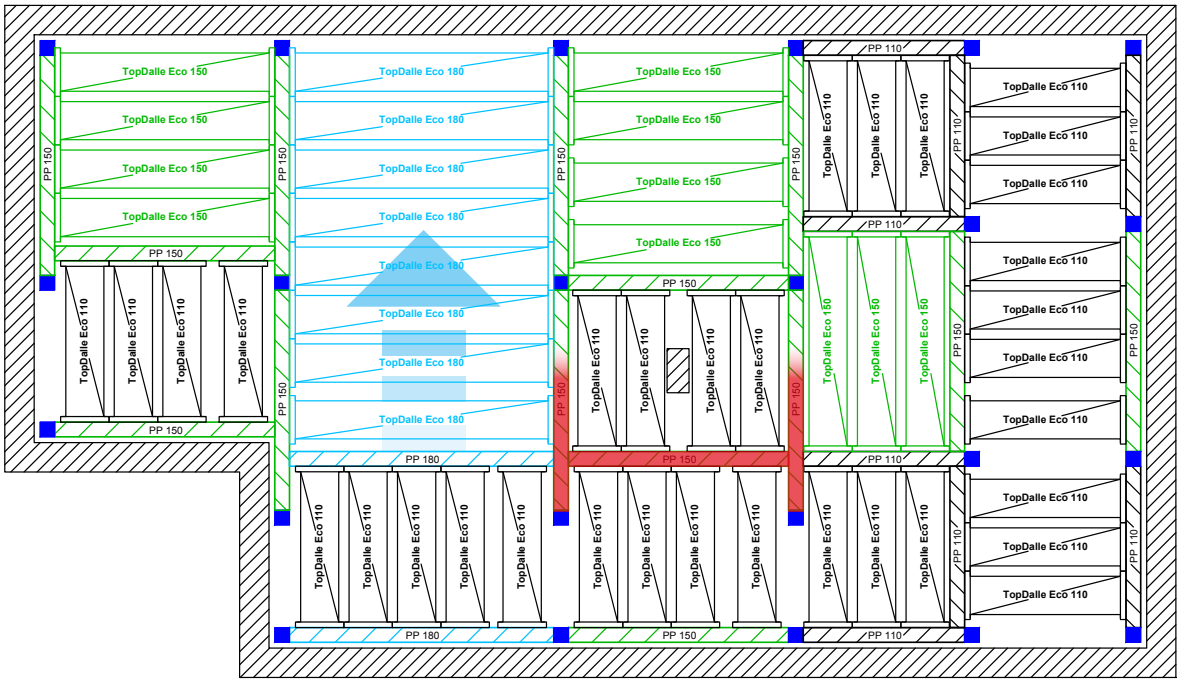


- Use in cantilever configuration with fork and bracket.
- Steps:
  1. mount the bracket on the prop
  2. install the prop
  3. position the fork at the desired located
  4. attach the primary beam to the prop, with the tip in the bracket
  5. raise the beam, positioning a prop in the fork



SPECIAL APPLICATION

PRECISE ADAPTABILITY TO CELL DIMENSIONS*



*Known as "drawer" system

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

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 25).

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

ECO+ FRAME GRID

GRID FOR Eco+ FRAMES FROM 0 TO 10 M			
Eco+ 180	Eco+ 150	Eco+ 110	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

Eco+ 180	Eco+ 150	Eco+ 110	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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