GENERAL CATALOGUE





THE COMPANY

Belief in the values
of a family business
Growing our business to better
serve our clients7
Promoting innovation through safety
for the benefit of productivity
Making a commitment to eco-friendly
French production
Embodying the values of service
and proximity11
Facilitating your worksite
management12
Making operational excellence
our signature13
A team of experts
at your service
Exporting our know-how to the
international market

PROJECTS

Comédie de Genève,	
Performance venue	17
llôt Beaumont,	
Property development	21
lcône, Offices and coworking	
spaces	25
Lyon Part-Dieu, Shopping centre	
extension	29
Hekla Tower	33
Grand Nancy Thermal	37
Soprema Group Headquarters	.41
Universeine, Athletes'	
Village	45
Lyra Verde, Residential	
Development	49
Duo Towers	53
The To-Lyon tower	57

ALPHI PRODUCTS

FORMWORK	
TopDalle	63
TopDalle Eco	79
DalpHi	97
HorizontAL	111
TopTable	129
Formwork tables	145
VerticAL	155

PROPS

European standard props	17	75
Props - other uses	18	37
Aluminium props	19	91
Prop accessories	19	96

BEAMS

Beams	201

SHORING

TourEchaf	209
A120 tower	.229
Alto	.241
Formwork support bracket	.249

SAFETY	
AlphiSafe	253
Monte-Tour	.263
Escalib MDS	.271
Podium	.281

ACCESSORIES AND CONSUMABLES

Kross Builder 500	293
Pro tools	299
Handling racks	303
TransEtais Logement	311
TransEtais	315





The French formwork and shoring specialist, Alphi has consolidated its position as leader on the national market, and beyond, through the fundamental values introduced from the company's inception by its founder, Edmond Souvignet. Innovation - Safety - Performance are the cornerstone of product

development centred on greater well-being for workers and customer satisfaction.

Belief in the values of a family business



Alexandre Souvignet, CEO of Alphi, and Philippe Souvignet, Managing Director, with Edmond Souvignet, the company's founder

The adventure started in 1995, on the banks of France's largest natural lake. At that time, Edmond Souvignet made the decision to capitalise on aluminium hand-portable slab formwork. **Close to thirty years focussing on innovation and customer satisfaction,** in the "made in France" tradition, followed.

Alphi found its roots in the Savoie region, at the crossroads between the Lyon, Geneva and Turin routes. These regional roots have remained consistent over the years, as the company has grown, with the construction of one of the largest equipment bases in Saint-Genix-les-Villages in France in 2014, **making** it possible to reach the French and international markets under the best possible conditions.

Alphi offers a

comprehensive range of formwork and shoring systems capable of meeting the needs of any construction project. This is the result of a drive towards innovation fundamentally centred on improving working conditions for workers on construction sites. particularly in terms of safety and reducing arduousness for the benefit of performance. Our vision includes embedded environmental and social commitments expressed in our product innovations.



With his technical expertise and a visionary approach to the future of construction, from Alphi's inception, Edmond Souvignet was committed to innovative and human-centred formwork design, in which "taking care" of staff and operators on worksites is a key component.

Altruism, sincerity, availability, high standards, "Alphengers" now convey these values in their dealings with Alphi's clients and partners.

TRIBUTE

Edmond Souvignet founded his company in 1995, naming it after his sons, Alexandre and Philippe, to make Alphi. A testament to his love and confidence repeated some years later when he passed the company on to the two brothers.

Growing our business to better serve our clients



The **Alphi Group** is continuing to expand its business and enhance the range of products and services offered to its clients. In synergy with its historic business in formwork and shoring solutions for the construction sector, the Group is setting up a complementary branch focussing on **services for industry**.

The company **Simpra**, based in the Île-de-France region since 1959, and specialised in designing and manufacturing specific formwork equipment, joined the Alphi Group in 2022. The Group's industrial branch, founded in 2022, is flourishing under the **Damois** brand. The Group is also strengthening its international presence After founding its first subsidiaries

in **Qatar**(2012),

Switzerland (2013) and Luxembourg (2014), the Swiss company Adria, which can boast almost 100 years of expertise in shoring and construction equipment, joined the Alphi Group in late 2021. Alphi Suisse's business has been merged with that of Adria.



ALPHI FORMWORK AND SHORING SYSTEMS

- > 1995: creation of Alphi
- > Our sites: Savoie, Paris, Bordeaux
- > Our locations: Switzerland, Luxembourg, Qatar, India, Portugal, United Kingdom, Africa
- > Staff of 130
- > 26 patents filed
- > 1,500 worksites handled each year across France

- > 100,000 m² of formwork produced annually
- > Stock of equipment:
 - 130,000 props
 - 200,000 m² of formwork
 - 2,300 tonnes of shoring systems
 - 2,000 m² of vertical formwork



Promoting innovation through safety for the benefit of productivity

Safety and **reducing arduous working conditions** are recognised **sources of productivity**, encouraged in the construction sector. OPPBTP (French Professional Body for Prevention in Construction and Public Works) has highlighted that investing in safety can provide leverage for profitability: improving safety-related practices has positive repercussions on the environment and the working conditions of workers, who are more efficient and more productive. This assessment links up with Alphi's vision to strive for sustainability – on a human and environmental level:

SAFETY = PRODUCTIVITY



Each new product designed by the R&D Department is considered in terms of **quality** and **improving the working conditions** of workers on construction sites. **Reducing** equipment weight, reducing **arduous working conditions** and **repetitive strain injuries, ease** of use, adapting to complex shapes, or ecodesign all guide the company's approach.

In this way, Alphi has created a **rating tool** used to display the performances of its products in terms of safety and arduous working conditions. Each diagram is drawn up on the basis of the applicable professional standards.



The diagram for the TopDalle Eco formwork system is shown here.



The R&D Department pays particular attention to each client and their specific constraints in order to offer them **tailor-made** solutions.

This ability to factor in requirements, combined with anticipation of market trends, has resulted in the jumps in performance that have marked the history of Alphi products and helps **optimise construction techniques** for concrete floors.



KEY INFORMATION

- > Alphi's studies are conducted in partnership with research bodies, innovation support and technology transfer organisations, and occupational health and prevention authorities.
- > Product testing is conducted by the independent laboratory Locie at the University of Savoie Mont-Blanc.





Making a commitment to eco-friendly French production



Our Méry and Saint-Genix-les-Villages sites in Savoie and our Paris office flying the French Fab flag

Innovation and technology that are **"made in France"** are an integral part of Alphi's R&D policy. The design and manufacture of Alphi products are guarantees of quality and take place in this country.

Alphi is the **first formwork manufacturer** to have been awarded, in 2014, the **"Origine France Garantie" label** for horizontal formwork. This label is a clear recognition of the approach taken by Alphi's management ever since the company was founded: always promoting French expertise.

Alphi has joined the **French Fab** campaign which is aimed at promoting French industry on a global scale, highlighting the innovation and expertise of the industrial fabric found in France.





COMMITMENT TO SUSTAINABILITY

Sustainable development, the circular economy and Corporate Social Responsibility (CSR) are at the heart of the company's strategic approach.

Alphi's latest innovations are the perfect example of this. A product like the TopDalle Eco formwork system is fully compatible with the concepts of the green economy, economical use, and industrial ecology that characterise **the circular economy**.

Alphi is active in the following areas:

- > the use of aluminium 100% recyclable as a preferred component for the company's products,
- > a production method favouring **short distribution channels** and operators in French industry,
- > procurement-related **transport** distances of less than 460 km,
- > a lower number of trucks on the road thanks to **packing optimisation.**

Alphi is a member of the **Coq Vert Community**, a community of business leaders committed to ecological and energy transition. Launched by Bpifrance, in partnership with ADEME and the French Ministry of Ecological Transition, the mission of this Community is to examine environmental challenges and promote shared expertise among committed business leaders.

Embodying the values of service and proximity



From the design office to production, and from quality control to customer relations, 130 people are mobilised to help your construction projects succeed. The **Design Office** produces the rotation, phasing, and layout drawings, in keeping with the client's methods and time constraints. The **logistics team** is involved in all aspects of scheduling, delivery, and equipment returns. **Manufacture, production** tracking and quality monitoring are carried out by qualified personnel who are dedicated to those tasks.

Alphi offers **training** for formwork installers, accompanied by time and target tracking procedures. Alphi's sales team,

present throughout France, provides you with quality support. Made up of experienced technical sales representatives, the team responds to all your technical queries with a tailor-made solution.

OUR OFFICES AND LOGISTICS HUBS SAVOIE, PARIS, BORDEAUX





Alphi's **logistics hubs** contain equipment warehouses, offices and outdoor storage areas. Their layout allows optimised equipment management and easier turnarounds, for the benefit of our clients who gain in **responsiveness** and in **speed of procurement**.

The Saint-Genix-les-Villages logistics hub, on the border between the Savoie and Isère regions, covers an area of over **34,000** m² (currently being extended).

In the Île de France region, our office and our logistics hub are located close to Versailles, in the Yvelines region. This technical and operational base covering 27,000 m² is also currently being extended.

Our Bordeaux office, covering 1,800 m², allows us greater proximity to our clients in the Nouvelle Aquitaine region.

Facilitating your worksite management

AlphiCad

Designed by the Alphi design office, in collaboration with AriCad, the **AlphiCad 2022** program is a valuable tool that facilitates the management of your worksites.

The functions developed are used for:

- automatic cell layout,
- saving time,
- phasing and turnaround management,
- counting of equipment counting based on these phasings and turnarounds,
- equipment optimisation according to the phases.

AlphiCad 2022 is operational for calculations concerning the TopDalle, TopDalle Eco and DalpHi formwork systems. Also available for sale, accompanied by a one-day training course on our premises or at the client's premises, AlphiCad is compatible with AutoCad 2022* and comes in two languages (French and English).

Clear and

intuitive stages:

- surfacing,
- phasing,
- phase turnaround,
- incorporation of special phases,
- layout,
- summaries.

*Not compatible with AutoCad LT versions





The digital mockups for Alphi formwork products are developed using Revit (Autodesk) software.

You can download the available Alphi BIM objects on our website.





Access Alphi Blm objects

Making operational excellence our signature

The traceability process implemented in our logistics hubs is a part of the **operational excellence** approach as well as the **quality approach** to which Alphi is committed.

It includes inspection stages all along the equipment shipping and receiving chain.

Inspections managed by PDA



Identification and weighing of trucks, on arrival and departure.



Unloading, checking of origin and recording in schedule.



Photos of equipment and of uncovered vehicle.



Counting of number of packages and parts, identification and storage before maintenance and packing.

MAINTAINED EQUIPMENT, PROTECTED OPERATORS

On receipt of equipment returns, the parts are checked before cleaning and processing operations. Alphi is committed to improving the working conditions of the teams assigned to these operations in terms of safety, reducing arduous working conditions and preventing RSI.

Beam cleaning tool

Environmentally friendly, it works without water and collects dust. Automated, it is adaptable to any beam size.

Handling of props

Based on a magnet system, the tool allows you to handle and rearrange props in racks without any manual effort.

Plate straightener

Developed by Alphi's R&D department to straighten prop plates and thus extend their service life. *Available for sale.*



Vacuum tables

Used during cleaning and welding operations and equipped with dust and particle filters.



A team of experts at your service



Éric Roman +33 6 45 13 52 06 Sales Director

territory to offer you tailor-made solutions, at the best price. The members of the team are first and foremost technicians for whom **proximity** and **availability** are meaningful values. These professionals in formwork, shoring and safety are **attentive** to their clients' needs. They stand out from the competition by the **relevance of the technical solutions** offered, by presence in the field and **follow-up** of your projects guaranteed up to the completion stage.

A specific contact is assigned to each client and to each project. Don't hesitate to contact them! Olivier Bismuth +33 6 07 43 69 23 South-East Sector

GROUP Alphi

Exporting our know-how to the international market



The Alphi Group exports **its know-how** to French overseas departments and territories, and to our neighbours in Belgium, Luxembourg and Switzerland, where the company has forged special links for many years. The **Group's subsidiaries and entities** are helping expand the business to Portugal, the UK, India, the Middle East, and Africa.



Comédie de Genève Performance venue

The new Comédie de Genève project, sponsored by the Municipality of Geneva, was completed in the up-and-coming Eaux-Vives station district. The master builder Maulini assigned Alphi the task of producing the slab formwork.

Comédie de Genève



The new Comédie de Genève project includes, in the same venue, two rehearsal rooms, set and costume design workshops, administrative offices, and two concert halls with 500 and 200 seats.

Slab formwork up to a height of 12 m



The construction of this building faced some major challenges with, among others, specific technical features, extrahigh formwork, distinctive layout plans and exposed concrete.



The building is made up of extrahigh walls, a concrete gangway, a sole plate placed on spring box type supports.

The TopDalle and DalpHi formwork systems fitted by Alphi made it possible to produce slabs of heights of up to 12 metres.

ALPHI EQUIPMENT

- > DalpHi
- > Aluminium props



llôt Beaumont Property development

Îlot Beaumont is being built in the heart of the EuroRennes residential district and economic hub. The Legendre Group commissioned Alphi to produce the formwork for the basement and ground floor.

llôt Beaumont



The TopDalle formwork system provides optimal safe working conditions

ALPHI EQUIPMENT

- > TopDalle 1,500 m²
- > TopDalle Eco 1,000 m²
- > TourEchaf 120 tonnes







Alphi supplied 1,000 m² of TopDalle Eco formwork and 1,500 m² of TopDalle formwork for the floors.

120 tonnes of TourEchaf was used to construct the basement, ground floor, and fascia under safe conditions.

Quality concrete soffit finish

Located near the station, right in the heart of the EuroRennes district, Îlot Beaumont consists of three buildings covering an area of over 25,000 m².

Two 9-storey buildings will accommodate offices, and an 18-storey tower block will be used for residential purposes. On the ground floor, a 1,000 m² common base will be used for retail and service businesses.



Offices and coworking spaces

The lcône building in Belval, Luxembourg will accommodate offices and coworking spaces over an area of 18,000 m². The contractors Besix and LuxTP have selected Alphi's formwork and shoring systems for this project.





With 18,000 m² of offices and coworking spaces, the Icône building contains a number of specific features aimed at creating a pleasant, convivial and innovative work environment.

It includes 800 m² of retail and restaurant space, topof-the-range technological equipment, plenty of meeting areas, etc. Designed by the architectural firm Foster + Partners, this building has a glass frontage and roof to achieve the ideal work environment and maximise users' productivity.

High formwork throughput between 150 m² and 300 m² per day



PROJECTS

The Alphi A120 Tower was used for the beam decking and gangway formwork at heights of 20 metres, under the safest possible conditions.

Thanks to the TopDalle formwork system, offering high performance in terms of safety and productivity, a high throughput, between 150 m² and 300 m² per day, was maintained throughout the project.

18,000 m² slab surface area

ALPHI EQUIPMENT

- > TopDalle 2,300 m²
- > A120 tower 260 ml



Lyon Part-Dieu Shopping centre extension

The contractors GCC Construction and Léon Grosse commissioned Alphi to produce the shoring systems for the project to refurbish and extend Lyon's historic shopping centre: Part-Dieu. With 161,000 m² of retail space, it is now the largest shopping centre in continental Europe.

Lyon Part-Dieu



■ With a 32,000 m² extension, the project to extend the Part-Dieu shopping centre is spectacular.

Shoring up to a height of 30 m

PROJECTS

Over forty new retailers, new living spaces, and a magnificent rooftop are helping transform the Part-Dieu district.

This highly technical project, given the quality of the subsurface and foundations, required the installation of 250 tonnes of TourEchaf on HEB load distribution profiles. The installation was a difficult one, as in total, 23 metres of shoring were erected.

TourEchaf was used to shore the posts and girders on each level, or 5 risers, under safe conditions.



ALPHI EQUIPMENT

- > Aluminium props
- > TourEchaf 250 tonnes





Hekla Tower

The contractor Bateg commissioned Alphi to produce the shoring systems and slab formwork for the major Hekla Tower project. With a surface area of 76,000 m² and a height of 220 m, it is set to dominate the skyline of the La Défense business district in Paris.



Stretching up to 220 m in height, it's hard to miss the Hekla Tower in the skyline of the La Défense business district. The prismatic glass and metal architectural structure provides innovative work spaces designed to promote interaction and well-being.

This skyscraper right in the heart of Paris, designed by Ateliers Jean Nouvel, has a total area of 76,000 m² across 48 levels, to accommodate 5,800 workers. Business centres, a wellness centre, an auditorium, restaurants, a premium concierge service, a hanging garden and rooftop promise an exceptional experience.



In total, 4,000 m² of TopDalle Eco and 300 tonnes of TourEchaf were supplied for this major project. The AlphiSafe collective safety system protected the operators.





ALPHI EQUIPMENT

- > TopDalle Eco 4,000 m²
- > TourEchaf 300 tonnes
- > AL100 and AL200 beams 2500 ml
- > AlphiSafe


Grand Nancy Thermal

The contractor Bouygues Bâtiment commissioned Alphi to refurbish and build Nancy's aquatic and spa complex. 1,500 m² of TourEchaf was used to produce shoring systems for heights of up to 8 metres under safe conditions.

Grand Nancy Thermal



Right in the heart of the spa capital of France, Grand Nancy Thermal, a unique French aquatic and spa complex, has been in the refurbishment and construction phase since October 2019.

Designed by Anne Demians' and Nicolas Chabanne's architectural firms, the new centre will create a conversation between the old and the new: in addition to the contemporary architectural style, some heritage features are being reused.

A structure comprised of curves on which a wide range of Alphi equipment has been used: TourEchaf, TopDalle formwork, AlphiSafe collective protection system, etc.,

- > TopDalle 1,000 m²
- > TourEchaf 220 tonnes



Shoring up to a height of 8 m



20,000 m² slab surface area



Soprema Group Headquarters

The Soprema Group, waterproofing and insulation experts, has started building its new headquarters in the Port du Rhin district in Strasbourg. Eiffage Construction selected Alphi for the shoring systems and to produce 10,000 m² of slabs.

Soprema Group Headquarters

Strasbourg's port district is set to be home to Le Grand Charles, the Soprema Group's new headquarters.

This stylish and contemporary project will illustrate the Group's commitments to social and environmental transition.

The company's 270 staff will be accommodated in a building covering a surface area of 8,000 m², across 6 floors, up to a height of 28 metres.



- > TourEchaf
- > TopDalle 1,400 m²

In total, a slab area of 10,000 m² was constructed using our TopDalle formwork system.

TourEchaf was used for the decking and the balconies.





6 floors, for a total surface area of 8,000 m²



Universeine Athletes' Village

After it welcomes athletes in 2024, the Universeine district will contain around 79,000 m² of housing, 63,000 m² of office space and 4,000 m² of retail space. The contractors Vinci, Spie Batignolles, GCC, Bouygues Habitat résidentiel Paris Ouest and Eiffage Construction, working on this emblematic project, have selected Alphi's formwork and shoring systems.

Universeine



This major project in the heart of the Greater Paris region will provide an innovative and sustainable neighbourhood. This huge, environmentally ambitious project has been devised to meet today's and tomorrow's environmental challenges: reducing the carbon footprint of buildings, adapting to climate change, and protecting biodiversity.



Of the project's total 35 cranes, 33 are carrying Alphi equipment.

Alphi has supplied 12,500 m² of TopDalle and TopDalle Eco formwork systems for the floors, 120 tonnes of TourEchaf for the shoring systems and 900 m² of TopTable for the balcony formwork.





- > TopDalle 12,500 m²
- > TopDalle Eco 12,500 m²
- > TopTable 900 m²
- > TourEchaf 120 tonnes



Lyra Verde Residential Development

One of Alphi's loyal clients for over 10 years, the building contractor Phippaz also chose to work with us on this 120-unit residential property development in the Haute-Savoie region.

Lyra Verde



Located in the Arve valley, in the municipality of Bonneville, the Lyra Verde residential property development provides a green and pleasant living environment.

In total, a slab area of 10,000 m² was constructed using our TopDalle formwork system.

For the balcony formwork, 120 m² of TopTable was used for the one of the system's key benefits: quick implementation, guaranteeing removal, repositioning and erection in less than 15 minutes.

PROJECTS



The AlphiSafe collective system allowed for completely safe installation



- > TopDalle: 1,000 m²
- > TopTable: 120 m²



Duo Towers

The contractor Bateg has select Alphi's formwork and shoring systems for the construction of the floors, transfer slab and form panel decking in these two skyscrapers being erected in Paris's 13th Arrondissement.



Designed by Ateliers Jean Nouvel, the two towers reaching heights of 180 and 220 metres contain a remarkable specific architectural feature with 7 of the buildings' 8 frontages sloping. The angles of inclination are all different and can even exceed that of the Leaning Tower of Pisa!

The Duo Towers will accommodate offices, retail units, a hotel, and a restaurant.



400 tonnes of TourEchaf for the transfer slab and the form panel decking



The TopDalleEco formwork system was used to construct the girders and floors in both skyscrapers.



- > TopDalle Eco 6,000 m²
- > TourEchaf 400 tonnes
- > AL100 and AL200 beams -4,500 ml
- > AlphiSafe



The To-Lyon tower

In Lyon city centre, in the Part-Dieu district, the To-Lyon tower will reach a height of 171 metres. Vinci commissioned Alphi to construct the slab formwork for this spectacular project.

The To-Lyon tower



The To-Lyon tower was designed by the architect Dominique Perrault with the aim of becoming a template for energy efficiency.

For the same surface area, it will use three times less energy than its predecessor.

- > HorizontAL 1,800 m²
- > TopDalle Eco 400 m²
- > VerticAL 300 m²
- > Kross Builder 500

PROJECTS

An emblematic structure in France's second largest business district, it will contain a floor area of 80,000 m² across 43 levels.

Our new slab formwork system using plywood panels, HorizontAL, was used for this project.

400 m² of TopDalle Eco was also used to construct the floors.





Increased productivity was achieved using the new French electric handling forklift, Kross Builder 500, designed by Alphi in partnership with K-Ryole (see page 292).

TopDalle63 DalpHi......97 HorizontAL......111 Formwork tables......145

PROPS

BEAMS

SHORING	
TourEchaf	209
A120 tower	.229
Alto	.241
Formwork support bracket	.249

AFETY
hiSafe

AlphiSafe	253
Monte-Tour	263
Escalib MDS	271
Podium	281

ACCESSORIES AND CONSUMA	BLES
Kross Builder 500	293
Pro tools	299
Handling racks	303
TransEtais Logement	311
TransEtais	315

- To use our products safely, please observe the regulations in force in each country.

- The elements and set-ups presented in this
- catalogue match the characteristics of the equipment on the date of publication of the document. There might have been some changes since then.

The full user guides for each product are available on the website **alphi.fr**, by scanning the product QR codes in the catalogue, or on request by e-mail: info@alphi.fr





TopDalle formwork is particularly suitable for residential construction projects. The safety conditions for workers are optimal thanks to the controlled spacing between frames of 13 cm. The flexible use and simplicity of the system offer high productivity.

TopDalle | High-performance safety slab formwork





Site: Eurêka service hub Client: GFC Construction (Bouygues Group) Location: Montpellier



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

Simple and quick to install, the TopDalle system offers productivity of 30 m²/person/day at a height of 2.50 m.

Designed by the Alphi R&D office in collaboration with CARSAT Rhône-Alpes, TopDalle formwork is compliant with the decree of September 2004 on falls from height thanks to its anti-tipping system for the secondary frames and controlled spacing of 13 cm between frames.



SAFETY AND ARDUOUSNESS PERFORMANCES

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

TopDalle | High-performance safety slab formwork



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



UNIVERSITÉ SAVOIE MONT BLANC

SAFETY

Worker safety

Protection against falling at ground level and falling from height by an anti-tipping system for the C2+ secondary frames and controlled spacing of 13 cm.

Frames are installed and removed from ground level.

With TopPerche, formwork is installed and removed from ground level up to 3 m (no need for rolling safety ladder depending on heights).

Free-standing system

The unique design of the TopDalle system guarantees optimum stability.

Theft protection

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



The installation (and removal) of C2+ frames using the TopPerche provides a dual safety advantage:

- the fitter works at ground level;
- the risk of falls from height is eliminated, - controlled 13 cm spacing

ERGONOMICS

Lightest weight per m² formwork on the market

Made of aluminium, the frames and beams contribute to the lightness of the TopDalle hand-portable formwork system.

Less repetitive strain injury

- Better weight distribution.
- Ergonomic handles on the C2+.
- Accommodates 15 mm plywood.

Less noise pollution

Complies with the European noise directive (2003/10/EC dated 6 February 2003).

Easier identification

The beams are colour-coded, in compliance with the layout drawings provided.

PRODUCTIVITY

30 m²/person/day at a height of 2.50 m

(formwork, adjustment, cladding and formwork removal)

Easy removal

The drop-head for fast removal integrated in the technical support (Alphi patented system) keeps the slab supported during formwork removal. The turnaround of the aluminium structure is accelerated.

Flexible use to satisfy all technical requirements

- "Primary on primary" assembly allows the TopDalle system to adapt to the exact dimensions of the cells.
- The extendable primary beams and secondary corner beams complete the range to handle any complex shape requirements.



Superior concrete soffit quality

Superior quality as per DTU 21 guidelines for concrete floors.

Nailing on timber insert

Plywood (15 mm authorised) secured using nails.

Regulations

The beams are designed in compliance with the formwork standard NFP93-322.

Cast concrete thickness of up to 1.23 m









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

3 COMPONENTS FOR SIMPLE SHAPES

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 galvanised 			
		ST2		225-350	20.50	Cast iron sleeve			
	Small bushing Large bushing	ST3		250-400	23.50				
	Aluminium prop with insulated head								
Aluminium props		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 range 			
		ST3 Alu		270-400 + 33 for the insulated head	19.40	incorporated into the runner			

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
		PP 110		110	6.60	 30 mm timber inserts, for nailing on plywood using 40 mm nails
		PP 150		150	9.00	
		PP 180		180	10.80	

3	Secondary frame C2+	Name	Colour	Length (cm)	Unit weight (kg)	Description
ndary		C2+ 110		110	5.00	 Anti-tip safety 23 cm width Theft protection
Secol		C2+ 150		150	6.00	 Timer inserts for nailing on plywood using 40 mm nails
	23 cm	C2+ 180		180	8.00	

2 COMPONENTS FOR COMPLEX SHAPES (OPTIONAL)

1	Extendable primary beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
Primary		PPE 90-110		90-110	7.10	 From 90 to 110 cm, to adapt to all cell sizes Can be mounted in a drawer Continuous resting of secondary beams on primary beam

2	Extendable secondary corner beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
Secondary	Reventor.	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
		PSE ang 150		150-180	6.60	 Influent fiscal to for an analysis of the concrete skin by rotating the tip Working angles of 0° to 35°
		PSE ang 180	-	180-220	7.50	

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 (L/400) for concrete floors, accounting for the site load (2.5 kN/m^2).



Technical supports ST with integral shuttering head / Alloy props with insulated head

Name	Colour	Height (cm)	Unit 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	3.5	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	19.40									40	40	40	40	40	40	40	40	40	40	40	39	37	36	34

* Hot-galvanised - Identified by sleeve or nut colour. According to Eurocode O and 3 safety coefficients

TOPDALLE ACCESSORIES

		Mesh*		Dimensions w x h (m)	Unit weight (kg)	Description				
				1.25 x 1.30	7.60	 The wire mesh is galvanised, with polyester powder coating 				
		Alph/Safe		2.50 x 1.30	14.50					
		Galvanised post*		Cross-section (cm)	Height (m)	Unit weight (kg)				
afety				3.5 x 3.5	1.34	3.50				
	Alnh	ni formwork adapt	iers							
õ	Primary adapter*	ST adapter*	Corner adapter	Primary adapter	ST adapter	Unit Weight (kg) Corner adapter				
	4 4 1			2.30	2.10	2.10				
			T			*Compliant with EN 13374 standard				
		AlphiSafe pole		Length (cm)	Unit weight (kg)	Description				
		A	7	1.94 to 3.50	2.73	 Work from ground level Risk of falls from height eliminated 				

	Electrogalvanise	d insulated head	Holes drilled (mm)	Height (cm)	Unit weight (kg)	Maximum allowable load (kN)	
ional			4 x Ø12 x 80	33	3.80	40	
Addit	Bracket	Non-tilt safety fork (FSAB)	Unit weight diagonal strut (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 	

TopPerche	Length (cm)	Unit weight (kg)	Description
from gro level	155	3.20	 Work from ground level Risk of falls from height eliminated Controlled spacing of 13 cm Compatible with C2+ frames and primary beams

TOPDALLE ACCESSORIES


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 antilifting 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)







TopDalle

CLAMPING

Skin clamp



featured below.

- Skin clamp + tube system.

Girder clamp



- Girder clamp system.

Aluminium prop frame



- The prop frame can be used to join 4 props by means of a rigid connection.

Prop clamp



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

Prop frame



- The prop frame can be used to join 4 props by means of a rigid connection.



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

Depending on the configuration, stabilisation components may be recommended.

Contact Alphi's Design Office to validate the solution. The different systems offered are

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



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



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





Aluminium prop clamp



- When combined with the skin clamp, this component enables ST1 and ST3 aluminium props to be stabilised.





FOR YOUR SAFETY

WARNING

- To use our products safely, please observe the regulations in force 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 was 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 worksite 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 TopDalle 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.





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

TopDalle

SIMPLIFIED USER GUIDE

FORMWORK

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.

Before starting to set up, remember to secure the area.

Refer to the drawings and calculation charts provided.



 - Do not place the props against the wall.
 - Use TransÉtais Logement for easy prop storage and transport.



- Caution: it is essential to lock the head.



- Mount 1 primary beam on 2 technical supports (ST) stabilised by tripods. Caution: engage the primary beams on the large bushings of the technical support.



- Position the C2+ frames from one to the next using the TopPerche.



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



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



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



- Finish installing TopDalle using secondary corner beams where necessary.

FINISHING & CASTING

Conduct a final inspection to check levelling. Check that props are vertical. Check that no prop has been placed in the reserved areas.

Check the jointing of the plywood panels. Caution: it is prohibited to walk on the formwork, with the exception of trained personnel authorised to fit plywood panels.



- Plywood installation

Náiling.

Ensure that a load-bearing member is present under the plywood sheet joins, nailing possible in the timber insert.



- Check the sealing of the formwork between plywood sheets and at the edges.

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

FORMWORK REMOVAL

The drop-head for fast removal integrated in the technical support is a patented system held by Alphi.

It enables the slab to remain shored during formwork removal.

This speeds up equipment turnover. Formwork removal is performed after 24 to 48 hours (according to concrete setting conditions).



- Strike down the formwork heads from the STs as you progress.



- Remove the C2+ frames and finally the primary beams.



 Remove the plywood sheet using a panel elevator.
 Use the Leborgne long-range form stripping tool to simplify this stage.



Install the drying props, allowing one prop per 5 m² (general case).

DOCUMENTATION



View full user guide.





Alphi's innovation for formwork for residential construction, TopDalle Eco is unrivalled in terms of safety and productivity. Its full-surface panels provide a proper stable and secure working platform. Workers can work safely, productivity is increased. **TopDalle Eco** | Slab formwork combining safety and the environment







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 system offers productivity of 33 $m^2/person/day$ at a height of 2.50 m.

TopDalle Eco formwork, designed by the R&D Department of Alphi, complies with the decree of September 2004 concerning falls from height, and satisfies the NF E 85–014 and NF X 35–109 standards concerning the risks of tripping, slipping, and falling objects, as well as the manual handling of loads.



SAFETY AND ARDUOUSNESS PERFORMANCES

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.

Site: Housing Client: Eiffage Location: Paris, 20th district TopDalle Eco | Slab formwork combining safety and the environment



COMPLIANT WITH 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 OF SAVOIE MONT BLANC**.



UNIVERSITÉ SAVOIE MONT BLANC

TOPDALLE ECO

SAFER, LESS ARDUOUS, MORE ENVIRONMENTALLY FRIENDLY AND EASIER TO USE.

SAFETY

Worker safety

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

Ground-level Eco+ panel fitting and removal

With TopPerche, 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

33 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 allow easy recognition of different Eco+ panel lengths.



Easy 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.



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.

ENVIRONMENT

100% "Green"

Designed to limit CO_2 emissions, the Eco+ panel is made of 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 components 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.



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.





The extendable beams let you go near the cell edges

3 COMPONENTS FOR SIMPLE SHAPES

1	Technical support (ST) with integrated drop-head	Name	Colour	Height (cm)	Unit weight (kg)	Description
pports		ST1		197-300	18.50	 Integrated drop-head for fast removal (patented system) Base web Hot-dip galvanised
hnical su		ST2		225-350	20.50	Cast iron sleeve
Tec	Small bushing Large bushing	ST3		250-400	23.50	
	Aluminium prop with insulated head					
ium props	Ŧ	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
Alumini		ST3 Alu		270-400 + 33 for the insulated head	19.40	incorporated into the runner
2	Primary beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
2	Primary beam	Name PP 90	Colour	Length (cm) 90	Unit weight (kg) 5.40	Description Theft protection Can be mounted in a drawer
rimary N	Primary beam	Name PP 90 PP 110	Colour	Length (cm) 90 110	Unit weight (kg) 5.40 6.60	 Description Theft protection Can be mounted in a drawer 30 mm timber inserts, for nailing on plywood using 40 mm nails
Primary N	Primary beam	Name PP 90 PP 110 PP 150	Colour	Length (cm) 90 110 150	Unit weight (kg) 5.40 6.60 9.00	 Description Theft protection Can be mounted in a drawer 30 mm timber inserts, for nailing on plywood using 40 mm nails
Primary N	Primary beam	Name PP 90 PP 110 PP 150 PP 180		Length (cm) 90 110 150 180	Unit weight (kg) 5.40 6.60 9.00 10.80	 Description Theft protection Can be mounted in a drawer 30 mm timber inserts, for nailing on plywood using 40 mm nails
ຜ Primary ນ	Primary beam	Name PP 90 PP 110 PP 150 PP 180 Name	Colour	Length (cm) 90 110 150 180 Length (cm)	Unit weight (kg) 5.40 6.60 9.00 10.80 Unit weight (kg)	Description Theft protection Can be mounted in a drawer 30 mm timber inserts, for nailing on plywood using 40 mm nails Description
dary ω Primary Ν	Primary beam	Name PP 90 PP 110 PP 150 PP 180 Name 110	Colour	Length (cm) 90 110 150 180 Length (cm) 110	Unit weight (kg) 5.40 6.60 9.00 10.80 Unit weight (kg) 5.40	Description • Theft protection • Can be mounted in a drawer • 30 mm timber inserts, for nailing on plywood using 40 mm nails • Description • Anti-tip safety • 33 cm width • Theft protection • Intert protection • Theft protection • Theft protection • Timer inserts for nailing
Secondary ω Primary Ν	Primary beam	Name PP 90 PP 110 PP 150 PP 180 Name 110 150	Colour	Length (cm) 90 110 150 180 Length (cm) 110 150	Unit weight (kg) 5.40 6.60 9.00 10.80 Unit weight (kg) 5.40 6.90	Description • Theft protection • Can be mounted in a drawer • 30 mm timber inserts, for nailing on plywood using 40 mm nails • Description • Anti-tip safety • 33 cm width • Theft protection • Infer inserts for nailing on plywood using 40 mm nails • Coloured tip for easy identification

2 COMPONENTS FOR COMPLEX SHAPES (OPTIONAL)

1	Extendable primary beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
Primary		PPE 90-110		90-110	7.10	 From 90 to 110 cm, to adapt to all cell sizes Can be mounted in a drawer Continuous resting of secondary beams on primary beam

2	Extendable secondary corner beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
٨	Revensor	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 Timbra isnate for
Seconda		PSE ang 150		150-180	6.60	 Infiber first to formaling on plywood Modular orientation as close as possible to the concrete skin by rotating the tip Working angles of 0° to 35°
		PSE ang 180	-	180-220	7.50	

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 (L/400) for concrete floors, accounting for the site load (2.5 kN/m^2).



Technical supports ST with integral shuttering head / Alloy props with insulated head

Name	Colour	Height (cm)	Unit weight (kg)	ght 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	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	19.40									40	40	40	40	40	40	40	40	40	40	40	39	37	36	34

* Hot-galvanised - Identified by sleeve or nut colour. According to Eurocode O and 3 safety coefficients

TOPDALLE ECO ACCESSORIES

		Mesh*		Dimensior w x h (m)	IS 	L	Init weight (kg)	Descr	ription		
				1.25 x 1.3	כ		7.60	 The wire mesh in polyester powder 	is galvanised, with er coating		
		AlphiSafe _		2.50 x 1.3	כ		14.50	-			
		Galvanised post*		Cross-secti (cm)	on		Height (m)	Unit weight (kg)			
ety				3.5 x 3.5			1.34	3.	50		
Safe	Alphi formwork adapters Primary adapter* ST adapter* Corner adapter			Unit weight Primary ada	(kg) oter	Uni	t weight (kg) ST adapter	Unit we Corner	ight (kg) adapter		
				· · · · · · · · · · · · · · · · · · ·							
	4		1	2.30			2.10	2.	10		
	W		1.					*Compliant with EN 13374 standard			
		AlphiSafe pole		Length (cm)		L	Init weight (kg)	Description			
			7	1.94 to 3.5	0		2.73	 Work from grou Risk of falls from 	und level n height eliminated		
	Flectro	nalvanised insulator	d bead	Holes drilled	Hai	abt	Linit weight	Maximum			
	LIECUIO		a nedu	(mm)	(CI	m)	(kg)	allowable load (kN)			
lal	Ŧ			4 x Ø12 x 80	3	3	3.80	40			

ion	_	201					
Addit	Bracket	Non-tilt safety fork (FSAB)	Unit weight diagonal strut (kg)	Maximum allowable load (kN)	Unit weight FSAB(kg)	Tube diameter (mm)	Description
	V	÷	1.05	3.5	1.150	35	 Bracket: butterfly fastening nut FSAB: hammer head screw

ion und	TopPerche	Length (cm)	Unit weight (kg)	Description
Installat from gro level		155	3.20	 Work from ground level Risk of falls from height eliminated Compatible with Eco+ panels and primary beams

TopDalle Eco

TOPDALLE ECO ACCESSORIES



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 antilifting 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)







TopDalle Eco

CLAMPING

Skin clamp



featured below.

- Skin clamp + tube system.

Girder clamp



- Girder clamp system.

Aluminium prop frame



- The prop frame can be used to join 4 props by means of a rigid connection.

Prop clamp



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

Prop frame



- The prop frame can be used to join 4 props by means of a rigid connection.



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

Depending on the configuration, stabilisation components may be recommended.

Contact Alphi's Design Office to validate the solution. The different systems offered are

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



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



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





Aluminium prop clamp



- When combined with the skin clamp, this component enables ST1 and ST3 aluminium props to be stabilised.







FOR YOUR SAFETY

WARNING

- To use our products safely, please observe the regulations in force 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 was 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 worksite 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 TopDalle Eco 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.





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

TopDalle Eco

SIMPLIFIED USER GUIDE WITH STEEL PROPS

FORMWORK

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.

Before starting to set up, remember to secure the area.

Refer to the drawings and calculation charts provided.



 Do not place the props against the wall.
 Use TransÉtais Logement for easy prop storage and transport.



- Caution: it is essential to lock the head.



- Mount 1 primary beam on 2 technical supports (ST) stabilised by tripods. Caution: engage the primary beams on the large bushings of the technical support.



- Mounting Eco+ panels using TopPerche. Caution: the external teeth of the Eco+ panel must always rest on a primary beam or on the prop head.



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



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



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



- Finish installing TopDalle Eco using secondary corner beams if required.

FINISHING & CASTING

Conduct a final inspection to check levelling. Check that props are vertical. Check that no prop has been placed in the reserved areas.

Check the jointing of the plywood panels. Caution: it is prohibited to walk on the formwork, with the exception of trained personnel authorised to fit plywood panels.



- Plywood installation.

- Náiling.

Ensure that a load-bearing member is present under the plywood sheet joins, nailing possible in the timber insert.



- Check the sealing of the formwork between plywood sheets and at the edges.

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

FORMWORK REMOVAL

The drop-head for fast removal integrated in the technical support is a patented system held by Alphi.

It enables the slab to remain shored during formwork removal.

This speeds up equipment turnover. Formwork removal is performed after 24 to 48 hours (according to concrete setting conditions).



- Strike down the formwork heads from the STs as you progress.



- Remove the Eco+ panels followed by the primary beams.



 Remove the plywood sheet using a panel elevator.
 Use the Leborgne long-range form stripping tool to simplify this stage.



Install the drying props, allowing one prop per 5 m² (general case).

DOCUMENTATION



View full user guide.

TopDalle Eco

SIMPLIFIED USER GUIDE WITH ALUMINIUM PROPS

FORMWORK

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.

Before starting to set up, remember to secure the area.

Refer to the drawings and calculation charts provided.



 Do not place the props against the wall.
 Use TransÉtais Logement for easy prop storage and transport.



- Caution: it is essential to lock the head.



- Mount a primary beam on 2 props using a rolling safety ladder. Caution: engage the primary beams on the large bushings of the prop.



 Mounting the Eco+ panels using TopPerche. Caution: the external teeth of the Eco+ panel must always rest on a primary beam or on the prop head.



- Mounting a primary beam on a stabilised ST.



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



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



- Mount the extendable secondary corner beam.

FINISHING & CASTING

Conduct a final inspection to check levelling. Check that props are vertical. Check that no prop has been placed in the reserved areas.

Check the jointing of the plywood panels. Caution: it is prohibited to walk on the formwork, with the exception of trained personnel authorised to fit plywood panels.



- Plywood installation.

- Náiling.

Ensure that a load-bearing member is present under the plywood sheet joins, nailing possible in the timber insert.



Check the sealing of the formwork between plywood sheets and at the edges.
Spread the concrete on the formwork without over-

loading the beams and the technical supports.

FORMWORK REMOVAL

The drop-head for fast removal integrated in the technical support is a patented system held by Alphi.

It enables the slab to remain shored during formwork removal.

This speeds up equipment turnover. Formwork removal is performed after 24 to 48 hours (according to concrete setting conditions).



- Strike down the formwork heads from the STs as you progress.



- Remove the Eco+ panels followed by the primary beams.



 Remove the plywood sheet using a panel elevator.
 Use the Leborgne long-range form stripping tool to simplify this stage.



- Install the drying props, allowing one prop per 5 m² (general case).

DOCUMENTATION



View full user guide.



Dalphi

Its first quality is its versatility, the second is its price. DalpHi, the firm's "legacy" formwork can be adapted to all types of buildings. Lightweight and economical, it include the Alphi-patented integrated drop-head for fast removal.

DalpHi | Economical aluminium slab formwork





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



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

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

Its aluminium components make it oneof the most lightweight formwork systems on the market.

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

DalpHi | Economical aluminium slab formwork



PRODUCTIVITY

Installation 25 m²/person/day.

Quick 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 patented by Alphi is a protective measure against the fraudulent recycling of aluminium beams.



Protection identifiable by red insert

ALL DALPHI COMPONENTS HAVE BEEN TESTED BY THE INDEPENDENT LABORATORY LOCIE OF 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
upports		ST1		197-300	18.50	 Integrated drop-head for fast removal (patented system) Base web Hot-dip galvanised
chnical si		ST2		225-350	20.50	Cast iron sleeve
Te	Small bushing Large bushing	ST3		250-400	23.50	

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

3	Secondary beam	Name	Colour	Length (cm)	Unit weight (kg)	Description
dary		PS 110		110	3.00	 Theft protection Timer inserts for nailing on plywood using 40 mm nails
Secon		PS 150		150	4.10	 Compatible with other formwork solutions
		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 (L/400) for concrete floors, accounting for the site load (2.5 kN/m^2).



ST technical supports with integrated drop-head

Name	Colour	Height (cm)	Unit 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*		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

* Hot-galvanised - Identified by sleeve or nut colour. According to Eurocode O and 3 safety coefficients

DALPHI ACCESSORIES

		Mesh*		Dimensions w x h (m)	Unit weight (kg)	Description				
				1.25 x 1.30	7.60	 The wire mesh is galvanised, with polyester powder coating 				
		AlphiSule		2.50 x 1.30	14.50					
		Galvanised post*		Cross-section (cm)	Height (m)	Unit weight (kg)				
Safety		/		3.5 x 3.5	1.34	3.50				
	Alph	ni formwork adapt	ters	Unit weight (kg)	Unit weight (kg)	Unit weight (kg)				
	Primary adapter*	ST adapter*	Corner adapter	Finnary adapter	ST anabrei	Corner adapter.				
	4		1	2.30	2.10	2.10				
						*Compliant with EN 13374 standard				

	Electrogalvanised insulated head		Holes drilled (mm)	Height (cm)	Unit weight (kg)	Maximum allowable load (kN)	
ional	Ť		4 x Ø12 x 80	33	3.80	40	
Addit	Bracket	Non-tilt safety fork (FSAB)	Unit weight diagonal strut (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



	Racks	Ranges		
dling		 Vertical storage rack Galvanised rack on wheels Galvanised handling rack 		
		See page 303 for the different rack models		
Han	TransÉtais Logement	Description		
		 Easier prop handling Makes it possible to pass through door openings 		
	•	See page S I I TOP details of TransEtals Logement		

	Plywood cutting support	Dimensions w x l x h (m)	Description	
Aids for use	A B B A	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	
	A	2.50 to 4.33	 For sale only 	

DalpHi

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 antilifting 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)







FORMWORK

CLAMPING

Skin clamp



- Skin clamp + tube system.

Depending on the configuration, stabilisation components may be recommended. Contact Alphi's Design Office to validate the solution. The different systems offered are featured below.



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



Girder clamp



- Girder clamp 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 by means of a rigid connection.



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



DalpHi

SIMPLIFIED USER GUIDE

FORMWORK

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.
Before starting to set up, remember to

secure the area.

Refer to the drawings and calculation charts provided.



 Do not place the props against the wall.
 Use TransÉtais Logement for easy prop storage and transport.



- Caution: it is essential to lock the head.



Mount 1 primary beam on 2 technical supports (ST) stabilised by tripods. Caution: engage the primary beams on the large bushings of the technical support.
 Mount a secondary beam on a third ST.



- Place a second primary beam on another ST.



Finish setting up the secondary beams.
Do not leave gaps greater than 39 cm. Observe the layout plan.



- Set up another secondary beam on ST.



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.



- When the structure is finished and the height has been adjusted: laying the plywood. Peripheral safety [skin, girder, etc.] ensured beforehand.
FINISHING & CASTING

Conduct a final inspection to check levelling. Check that props are vertical. Check that no prop has been placed in

the reserved areas. Check the jointing of the plywood panels. Caution: it is prohibited to walk on the formwork, with the exception of trained personnel authorised to fit plywood panels.



- Nailing using 40 mm (max.) nails.

Ensure that a load-bearing member is present under the plywood sheet joins, and that the formwork between plywood sheets and the edge is sealed.



Check the sealing of the formwork between plywood sheets and at the edges.
Spread the concrete on the formwork without over-

loading the beams and the technical supports.

FORMWORK REMOVAL

The drop-head for fast removal integrated in the technical support is a patented system held by Alphi.

It enables the slab to remain shored during formwork removal.

This speeds up equipment turnover. Formwork removal is performed after 24 to 48 hours (according to concrete setting conditions).



- 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.



- Remove the secondary beams and finally the primary beams.



 Remove the plywood sheet using a panel elevator.
 Use the Leborgne long-range form stripping tool to simplify this stage.



Install the drying props, allowing one prop per 5 $\ensuremath{m^2}$ (general case).

DOCUMENTATION



View full user guide.



HorizontAL

The HorizonAL range is panel type formwork designed for large cells, making it the ideal system for commercial building construction. Compensation beams allow connection to the TopDalle and TopDalle Eco system.

HorizontAL | The extra-large formwork panel





HorizontAL

The HorizontAL range is a panel-type formwork system for large cells.

The high-performance HorizontAL system is capable of supporting a concrete slab of up to 30-35 cm, 50 cm with reinforcements.

Simple: HorizontAL comprises a prop head, with and without a seal, for all assembly configurations and a formwork panel that comes in two sizes.

The head guarantees **safe installation** and prevents **panel lifting** in windy conditions.



SAFETY AND ARDUOUSNESS PERFORMANCES

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

Site: To-Lyon Client: Vinci Location: Lyon A PANEL WEIGHING UNDER 25 KG AND A SINGLE DROP-HEAD.

PRODUCTIVITY

- High installation work rate.
- Flexible use thanks to the compensation beams which allow connection to TopDalle and to TopDalle Eco.
- A single head for all configurations.
- Ergonomic panel handling tool: MaxUpDown.
- The large panel sizes allow formwork of heights of up to 3.50 m without using a rolling safety ladder.



SAFETY

- Ground-based fitting and removal of panels and compensations when greater than 20 cm.
- The full surface inherent to the system forms a proper working platform.
- The AlphiSafe collective safety system is integrated in the panel using suitable adapters. It helps limit falls from height.

COMPATIBLE WITH THE TOPDALLE AND TOPDALLE ECO SYSTEMS TO FACILITATE FORMWORK IN COMPLEX AREAS.



FORMWORK





MAXUPDOWN HELPS INCREASE THE WORK RATE TO 40 M² / PERSON / DAY



WITHOUT MAXUPDOWN

Surface area: 120 m² Height: 3.90 m 4 workers 30 m²/person/day



Productivity +33%



WITH MAXUPDOWN

Surface area: 120 m² Height: 3.90 m 3 workers 40 m²/person/day



ERGONOMICS

- Light-weight panels: 24.9 kg for the 190 x 95 cm panel, or 13.8 kg/m².
 2 workers are sufficient for handling, in compliance with labour regulations.
- At extra-high heights, the MaxUp-Down tool enables easier panel handling and helps reduce repetitive strain injuries.

3 SIMPLE COMPONENTS

1	Fixed head (prop + plate)	Description
spe		 Prop with 120 x 120 mm plate, bore holes spaced at 80 mm A single head model for all assembly configurations The fixed head is used with the panel without a seal
Hea	Formwork removal head (prop + plate)	Description
		 Prop with 120 x 120 mm plate, bore holes spaced at 80 mm A single head model for all assembly configurations The formwork removal head is used with a seal and allows you to strike down the panel while leaving the prop pressing under the slab

2	Formwork panel	Name	Dimensions I x w x h (cm)	Unit weight (kg)	Description
Panels		HorizontAL 95	95 x 190 x 14	24.90	 2 panel sizes 2 panel colours for easier layout drawings: HorizontAL 95 in orange, HorizontAL 63.3 in blue
e.		HorizontAL 63.3	63.3 x 190 x 14	18.00	

3	Compensation beam	Dimensions I x w x h (cm)	Compensation plywood thickness (mm)	Description
Beam		87 x 7 x 14	15 to 27	 Used to produce compensation keys Used to connect HorizontAL to TopDalle and to TopDalle Eco

HORIZONTAL ACCESSORIES

	Mesh*	Dimensions w x h (m)	Unit weight (kg)	Description
	AlphiSafe	1.25 x 1.30	7.60	 The wire mesh is galvanised, with polyester powder coating
		2.50 x 1.30	14.50	
	Galvanised post	Cross-section (cm)	Height (m)	Unit weight (kg)
Safety		3.5 x 3.5	1.34	3.50
	Alphi formwork adapter	Name	Unit weight (kg)	*Compliant with EN 13374 standard
	- And -	HorizontAL adapter		
	Nanovib [®] range	Descr	iption	
gne tools		 Tools suitable for fitting and removing Alphi formwork hammers, hammer holder, prop key Vibration and noise reduction 		
Lebo	See page 299 for details of Leborgne tools			

HORIZONTAL ACCESSORIES

	Formwork removal pole	Length (m)	Unit weight (kg)
onal		3.20	7.00
Addit	Compensation plate	Dimensions w x I (cm)	Thickness (mm)
		15 x 190	2
		50 x 190	2

	MaxUp	Dimensions w x l x h (cm)	Maximum working height (m)	Unit weight including cylinder (kg)
lling		70 x 125 x 170	4.20	74.00
Handli	MaxDown	Dimensions w x l x h (cm)	Maximum working height (m)	Unit weight including cylinder (kg)
		130 x 160 x 230	4.20	96.00



HORIZONTAL ACCESSORIES

	Frame 150 cm 120 cm crosspiece	Unit weight (kg)	
Stabilisation		38.60	
	Skin clamp	Unit weight (kg)	Description
		3.00	 Stabilising clamp for use with 48 mm tube and collars
	Girder clamp	Unit weight (kg)	Description
		3.00	 The tube is inserted into the prop used for cladding
	Prop clamp	Unit weight (kg)	Description
	E	5.00	 The 45°-oriented rear plate allows retrospective fastening with the prop

SIMPLIFIED USER GUIDE

STABILISATION

- HorizontAL must be stabilised at cell commencement and during cell installation.
- For cells greater than 100 m² in size or on commencing, intermediate stabilisations should be added, every 100 m², using cross-member frames or clamps.
- 3 stabilisation solutions can be used at commencement.

Cross-member frame



- Cross-member frame system.



- A cross-member frame is fitted provisionally on the first 4 props.

Skin clamp



- Skin clamp + tube system.



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



Girder clamp



- Girder clamp system



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



SIMPLIFIED USER GUIDE

HORIZONTAL INSTALLATION WITH TRIPODS

Panel installation should start on the side of the arrow indicated in the installation drawing.



Install 4 props equipped with HorizontAL tie plates, using tripods.
Fit the first panel flat using a rolling safety ladder.



- Attach the second panel vertically to the props.



- Using the gauge stick, the form fitter raises the panel safely, until it is in the horizontal position.



- Whilst keeping the panel resting on the gauge stick, the form fitter installs the props.

CONTINUED INSTALLATION WITH SKIN CLAMPS

Stabilisation can be performed using skin clamps, prop clamps or cross-member frames.



- Fitting of skin clamps suitable for use for formwork stabilisation.



- Start the second frame by hanging the first panel.



- Raise the first panel using the gauge stick, and hold it in the horizontal position. - Position the first prop of the second frame against the

wall and complete the stabilisation with skin clamps.

HORIZONTAL FORMWORK REMOVAL WITH ROLLING SAFETY LADDERS

If applicable, start formwork removal with a panel close to a compensation zone.



- Raise the second panel using a second gauge stick and position the next prop Continue from one to the next.



- The cell is formed and the slab is cast.



- The panel to be removed is held by 4 props - Remove the props on the side of the free edge of the panel. The panel cannot fall as it is fixed onto the rear props.



- Position the rolling safety ladders on either side of the panel to be removed. Remove the final holding prop.



- Remove the rear props. - Lower the panel to be removed. - Continue from one to the next.



- If required, the slab may be shored underneath by drying props.

DOCUMENTATION



View full user guide.

HorizontAL

MAXUPDOWN FOR HORIZONTAL





MaxUp is a tool enabling HorizontAL formwork panels to be fitted effortlessly onto prop heads.

MaxDown

MaxDown is a tool facilitating the removal of HorizontAL panels up to 4.20 m. A protective net receives the panel and safeguards its descent.





SAFETY AND ARDUOUSNESS PERFORMANCES

Fitters work at ground level (no need for rolling safety ladder). They no longer need to handle heavy loads at heights.

MAXUPDOWN: SIMPLIFIED USER GUIDE

HORIZONTAL INSTALLATION WITH MAXUP

Only two workers are required to fit a 120 x 150 cm HorizontAL panel. The compressed air cylinder used to actuate the system is pressurised to 200 bar.

A compressor can be made available.



Position the panel vertically on the MaxUp.
Raise the panel and place it on the brackets.
Lift the panel using the telescopic mast system.



Move the MaxUp to position the panel.
Lower the panel so that its 2 top corners are engaged.
Lower the MaxUp and remove it from the rear.



Tilt the panel to the horizontal position using the pole.
Position 1 prop at the junction of the 2 panels.
Repeat the operation for the entire cell.

HORIZONTAL FORMVVORK REMOVAL WITH MAXDOWN

The MaxDown frame should be positioned in the same direction as the panel to be removed. As such, the latter will remain stable when tilted to the vertical position in the final stage.



- After removing the 2 props situated to the front of the panel to be removed, place MaxDown under the panel.



The panel is detached using a pole.
Once the pole is positioned, a simple rotating movement enables the panel to lower into the net.



- When the panel is detached from the slab, the MaxDown is lowered.



- When the frame comes to a stop, the panel can be retrieved by 2 workers (case of a 120 cm panel).

HorizontAL

COMPENSATION MANAGEMENT

With compensation plate







- Minimise the gap by combining panels of different sizes. - Up to a gap of 19 cm, no risk of falls from height.

Fit the plate over the gap.
Nail the plate onto the HorizontAL plywood.
Between 20 and 30 cm, add a beam.
The gap is thus less than 19 cm.

With compensation beams



- Minimise the gap by combining panels of different sizes. - The gap is thus less than 30 cm.







With connection to TopDalle or TopDalle Eco formwork



- Position the compensation beams on the heads.



- Complete the formwork with TopDalle or TopDalle Eco components.

BOUNDARY BARRIERS

INSTALLATION

These barriers are used to define a work area for workers working after the formwork phase.



- From ground level, fit the boundary barriers using 2 rolling safety ladders.

- This stage is performed at a rate of 2 workers per 3 m block containing 2 bases.



- Before working in the area within the boundary, the formwork must be continued for 3 m beyond the boundary barriers. Caution: maximum gap between 2 barriers of 10 cm.



 Complete the formwork of the cell with boundary barriers over at least 3 m, before any work in the area within the boundary.



 The area within the boundary is then accessible.
 All work before casting the slab will be performed in this area.



TopTable

The durable, compact formwork table designed by Alphi. Unrivalled in terms of speed of implementation.

TopTable | The durable, compact formwork table





Top Table

The Alphi TopTable is designed for **balcony form-work**: separated, continuous and terraces. It can also be used inside buildings.

It comprises a steel structure with aluminium beams bolted to it.

The swivel heads can accommodate all props on the market with a spacing of 80×80 mm between the plate drill holes.

Miscellaneous safety accessories are available.

COMMON SPECIFICATIONS

15 mm plywood - steel framework -AL100 aluminium beams 3 widths: 3 m, 4 m and 4.50 m

2 depths: 1.95 m and 2.50 m

Available for sale and hire.

Site: Housing Client: UEC Location: Meudon

TopTable



- The prop head allows shoring to be oriented lengthwise or crosswise.
- Easy to reuse whatever the assembly configuration.
- The swivel heads can accommodate all props on the market with a spacing of 80 x 80 mm between the plate drill holes.

HANDLING

- Lifting beam with a compact design, which can lift up to 1,200 kg.
- Specific mounting components: eliminating the risk of tipping during repositioning.

FORMWORK



PUSH-PULL

- Specific mounting housings for repositionable push-pull props.
- Two push-pull props stabilise the table.



SAFETY

- AlphiSafe collective protection, quickly installed from the ground, avoiding the risk of a fall from height.
- 1.30 metre high AlphiSafe mesh, with a patented locking system on the posts.

SPEED

SHORT IMPLEMENTATION TIMES: REMOVAL, REPOSITIONING, ERECTION... IN UNDER 15 MINUTES!



EXTENSIONS

- The table dimensions can be increased using 19 to 79 cm extensions.
- Up to 15.50 m² formwork installed in 1 crane operation!

EQUIPMENT

The table extensions are named according to the table position in relation to the skin.



INTERIOR

TABLE WITH EXTENSIONS

The width of standard modules can be extended by adding extensions to these modules.

There are 2 types of extensions: the small size is used for extensions of 19, 29 and 39 cm, the large size is used for extensions of 49, 59, 69 and 79 cm.

Each table can be extended on both sides.



COMPONENTS

	Formwork table	Dimensions I x w (m)	Unit weight (kg)	Description
·	Consisting of a metal structur	re, secondary aluminium	beams, 2 rating plates a	nd 15 mm plywood
ole		3.13 x 1.95	374.00	The table has 9 AL100.
rk tak		3.13 x 2.50	429.00	
owm		4.13 x 1.95	454.00	The table has 11 AL100.
For		4.13 x 2.50	517.00	n n
		4.63 x 1.95	495.00	 The table has 12 AL100.
		4.63 x 2.50	562.00	And the state of t

	Metal frame	Dimensions I x w (m)	Unit weight (kg)
Frame		3.00 x 1.80	220.00
		3.00 x 2.40	240.00
		4.00 x 1.80	269.00
		4.00 x 2.40	290.00
		4.50 x 1.80	294.00
		4.50 x 2.40	315.00

TOPTABLE ACCESSORIES

	Width adjustment extension	Unit weight (kg)	Description
Part		19.00	Single part regardless of extension depth

	TopTable/lifting beam linking part	Unit weight (kg)	Description
Linking		4.30	 Used to attach the table to the lifting beam Lifting beam fastening: 2 x M16x130 bolts

	TopTable head - Bottom section	Unit weight (kg)	Description
spe		2.10	• Fastening: M10 nut
Her	TopTable head - Top section	Unit weight (kg)	
		10.00	

	Axial adapter for AlphiSafe	Unit weight (kg)	Description	
Adapters		5.90	 For AlphiSafe post Supplied with 2 bolts and special washers 	
	Lateral adapter for AlphiSafe	Unit weight (kg)	Description	
		3.30	 Used to fasten an AlphiSafe post or a Ø 25 post 	
	Adapter for push-pull prop	Unit weight (kg)	Description	
		1.60	 Used to fasten a push-pull prop with an M16 bolt Fastening to the table with a Ø 20 mm pin 	

د	Lifting bar	Unit weight (kg)	Description
Lifting ba		50.00	 Used to lift a stack of 3 tables

	Pin Ø 20 x 150	Unit weight (kg)	Description
Pin		0.40	Supplied with specific R-clip

TOPTABLE ACCESSORIES



	AlphiSafe post	Unit weight (kg)
Safety		4.20

	Metal profile	Length (m)	Unit weight (kg)
rofiles	Jammanne and	2.40	60.00
ā	J Change and	4.50	110.00

	Large extension for TopTable depth 1.95 m	Extension (m)	Unit weight (kg)	Description
Extensions		from 0.49 to 0.79	62.00	 Includes 2 variable extension pieces, 3 x AL100-180 beams
	Small extension for TopTable depth 1.95 m	Extension (m)	Unit weight (kg)	Description
		from 0.19 to 0.39	55.00	 Includes 2 variable extension pieces, 2 x AL100-180 beams
	Large extension for TopTable depth 2.50 m	Extension (m)	Unit weight (kg)	Description
		from 0.49 to 0.79	68.00	 Includes 2 variable extension pieces, 3 x AL100-235 beams
	Small extension for TopTable depth 2.50 m	Extension (m)	Unit weight (kg)	Description
		from 0.19 to 0.39	60.00	 Includes 2 variable extension pieces, 2 x AL100-235 beams

TopTable

PREPARATORY STAGE

The TopTable head offers a choice of prop folding direction, either longitudinally, or transversely in respect of the table.



The TopTable head can be attached to the bottom or top dies on the framework.



Example in "transverse prop direction"





Example in "longitudinal prop direction"



The locked props do not slide.



As the props are inclined during movements, the slides must be locked by screwing the nut as far as it will go on the pin.

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 \text{ 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.



Insert an AlphiSafe table post in each adapter, then engage the meshes on the posts.



Lateral safety system with Ø25 posts, rails and baseboards





SIMPLIFIED USER GUIDE

UNLOADING ON-SITE

Detach the red ring from its support, then attach it to the crane. When unloading the tables, insert the lifting bars with their axles and pins in the TopTable at the bottom of the stack.

Place the stack on the battens, detach the crane, remove the lifting bars.



- The lifting beam opens out automatically on lifting.



- Place the lifting beam on the group (it folds up).

FORMWORK

Fit the TopTable equipped with the entire safety system and the props, observing its name and position as specified in the drawings provided.



- Guide the approach using the cords at the fork tops.



- Tilt the props to the upright position.



- Insert the push-pull props under the table (refer to the drawing provided).



- Secure the push-pull props.



- Repeat the sequence for the other tables.

FORMWORK REMOVAL

After concreting and securing the balcony, remove the formwork.



Position the lifting beam under the table.
 Lock the TopTable to the lifting beam with the permanent pins on each fork.



- Remove the push-pull props.



- Refit the prop tube.

- Lock it in the closed position.
 Tilt the prop to the inclined position.
 Repeat the operation for each prop.



- Remove the TopTable. - Install the drying props.

DOCUMENTATION



View documentation.


Formwork Tables

Ideal for large surfaces and custom-made, Alphi formwork tables can be adapted to all construction site configurations. They offer a high level of stability.

Formwork tables | For large surfaces



Formwork Tables

Alphi formwork tables are used for formwork on **large surfaces.** They can be adapted to all construction site configurations.

According to the required use and strength, they will be associated with steel props compliant with the EN 1065 standard or with aluminium props compliant with the EN 16031 standard.

Very **stiff** and very **stable**, they can create formwork of up to 6 m in depth.

The **AlphiSafe** collective protection system further ensures worker safety.

Site in Switzerland Client: Induni Location: Geneva

PRODUCTIVITY

- Reduction in fitting, formwork removal and handling time.
- The table formwork surface created can reach 6 m in depth for a variable width.
- Cast concrete thickness: up to 80 cm.
- The balcony table is used from depths of 1.30 m.
- The robustness of the system enables a high number of reuses.



SAFETY

- The AlphiSafe collective safety system can be adapted to all formwork tables.
- The lifting beam required for handling the tables is self-stabilising.
- Clamps, push-pull props, frames and straps help achieve optimal stability when the table is in place.







COMPONENTS



COMPONENTS



	Aluminium prop	Height (m)	Strength	Standard
		from 2.00 to 6.20	Strength classes D to U	Compliant with EN 16031 standard
or strong load suppor	Mounting housing on die	Descr		
		 Used to fix the prop head, thereby increasing loads and stability 		
	Connecting frame	Dimensions w x h (m)	Unit weight (kg)	
	4	1.20 x 0.50	10.70	
		1.60 x 0.50	14.30	
		1.90 x 0.50	17.00	
		2.10 x 0.50	18.70	
		2.30 x 0.50	20.50	
		2.50 x 0.50	22.30	

FORMWORK TABLE ACCESSORIES

	Formwork table clamp Description				
		 Used to fasten th the skin (anti-reco 	e formwork table to ii]	20	
	Push-pull prop	Descr	ription		
Additional		 Withstands both compressive forc stabilisation 	tensile and es, for optimal		
	Handling forklift	Dimensions l x w x h (m)	Lifting height (m)	Maximum Ioad (kN)	
		1.80 x 1.20 x 1.90	0.90	10	

FORMWORK TABLE ACCESSORIES



	Me	esh	Dimensions w x h (m)	Unit weight (kg)	Description
	AlphiSafe	1.25 x 1.30	7.60	 The wire mesh is galvanised, with polyester powder coating 	
		2.50 x 1.30	14.50		
	Galvanis	sed post	Cross-section (cm)	Height (m)	Unit weight (kg)
Safety			3.5 x 3.5	1.34	3.50
	Alphi formwo	ork adapters	Unit weight (kg) Die adapter	Unit weight (kg) Timber beam adapter	*Compliant with EN 13374 standard
	Die adapter	Timber beam adapter			
	ľ		2.20	6.60	

DOCUMENTATION



View documentation.





VerticAL modular and robust aluminium formwork panels for all geometric combinations.

VerticAL | Vertical aluminium formwork







The VerticAL formwork panel system is designed for building stringers, substructures, and industrial and agricultural buildings.

Reliable and robust, the system can reduce assembly times on worksites, as well as production costs.

The vertical or horizontal panel installation **increases the versatility** of the VerticAL formwork.

TECHNICAL CHARACTERISTICS



COMPONENTS

	Formwork panel	Width (cm)	Height (cm)	Unit weight (kg)
		25	150	11.51
		50	150	18.65
		75	150	25.12
		100	150	32.26
		25	270	19.10
		60	270	20.97
		45	270	27.07
		50	270	29.10
		60	270	33.17
lels		75	270	39.27
n par		90	270	45.36
iniun		15	300	17.07
Alum		25	300	22.05
		50	300	35.20
		60	300	40.20
		75	300	47.69
		100	300	60.80
	Multi-hole formwork panel	Width (cm)	Height (cm)	Unit weight (kg)
		100	150	45.00
		100	300	80.00
	- Market and Andrews			
		75	300	60.80

Other dimensions available on request.

COMPONENTS

	External bracket	Height (cm)	Unit weight (kg)
		150	13.15
		270	23.22
		300	26.10
	Internal bracket 30x30	Height (cm)	Unit weight (kg)
Angle brackets		150	18.84
		270	31.30
		300	36.80
	Adjustable bracket 15x15	Height (cm)	Unit weight (kg)
		300	61.95

VERTICAL ACCESSORIES

	Screw assembly clamp	Unit weight (kg)	Description
		1.03	 The screw assembly clamps mean fast, effective panel assembly Key tightening allows 2 cm compensations to be added, avoids misplaced hammer blows on the frames and reduces noise pollution
	Key assembly clamp	Unit weight (kg)	
Clamps		1.10	
	Alignment clamp	Unit weight (kg)	Description
		4.94	 Alignment clamps are used if greater resistance is required or to add a compensation Adjustable between 0 and 100 mm
	Corner clamp or bushing	Unit weight (kg)	Description
		3.70	 Adjustable between 0 and 100 mm
	Windmill sail clamp	Unit weight (kg)	Description
		4.94	 Windmill sail assembly clamp Adjustable between 200 and 400 mm Only suitable for use with 50 cm wide panels

	Service bracket with post	Unit weight (kg)
Safety		11.72

VERTICAL ACCESSORIES



	Panel top post socket	Unit weight (kg)		
		1.8		
	Top rod plate	Unit weight (kg)		
		0.46		
	Backplate	Unit weight (kg)		
	(_9)	0.95		
	Lifting ring	Unit weight (kg)		
dditional	C BIT	3.34		
A	Arteon 3-wing nut	Base (mm)	Unit weight (kg)	Description
	Â	60	0.60	 For rod Ø17 mm
		100	0.90	
	Plate-hinged 2-wing nut	Base (mm)	Unit weight (kg)	Description
	Y	150x100	0.30	■ For rod Ø17 mm
	30 mm hex pipe wrench	Unit weight (kg)		
	State State	1.00		

VERTICAL ACCESSORIES

	Multi-hole frame clamping screw	Unit weight (kg)	
	and the second s	2.00	
	End gap gauge	Length (cm)	Unit weight (kg)
	0	60	8.98
	A CONTRACTOR	100	11.00
lditional	Clamping rod Ø17	Length (cm)	Unit weight (kg)
		75	1.45
Ac	annenne en en een en een een een een een	100	1.08
	Compensation plate	Dimensions I x w (cm)	Unit weight (kg)
		150 x 20	16.74
	Ground mounting clamp	Unit weight (kg)	
	- Entre	0.83	

	Plastic cap	Description
nables		 Pack of 100 units
onsur	Spacer cone	Unit weight (kg)
0		0.20

	Accessory rack	Dimensions w x l x h (m)	Unit weight (kg)	Description
dling		0.7 x 1.545 x 0.475	80.00	 Stackable container with built-in lifting rings Rating plate can be customised with client's name Partitions for storing all the accessories (MWL 1500 kg) Optional protective cover
Hand	Galvanised rack	Dimensions I x w (m)	Unit weight (kg)	Description
		1 x 1.5	107.00	 Can be handled with a crane (sockets for slings) or a forklift End partitions removable for easy cleaning
		0.90 x 2.7	118.00	 Rating plate with client's name
		1 x 3	126.72	

USER GUIDE: ROD PASSAGE POSITION ON PANELS

1,500 MM PANELS

3,000 MM PANELS



For sale and hire

FORMWORK

2,700 MM PANELS



For sale only

USER GUIDE: ASSEMBLY

Assembly clamps



1	Panel height (cm)	Quantity of clamps
	25	1
	50	2
*	75	2
1	100	2
	150	2
17	270	3
	300	4

- When the panels are correctly positioned and aligned, fit the assembly clamps (option of adding compensation - IMPORTANT: assembly clamps (with nut) can accept bushings of max. 3 cm in thickness.

Alignment clamps



- When greater resistance is required, or to add compensation, fit alignment clamps. - **IMPORTANT**: alignment clamps can receive compensations of max. 10 cm in thickness.

Skin stop assembly



NOTE: option to use the top rod plate to offset the rod outside the formwork



- Skin stop in position.

- When the panels are correctly positioned and aligned, separate the 2 clamps as far as possible in the distancing assembly die, fit the assembly by pressing the die on the panel profile, then fit one clamp followed by the other and lock them at the required height.

Panel height (cm)	Quantity of skin stops
25	1
50	2
75	2
100	2
150	2
270	3
300	4



Details of panel clamping: upright panels

Screw the two winged nuts. Check that holes with no rods contain caps on the shuttering side. **CAUTION:** the backplates must be used.

Details of panel clamping: flat panels



Illustrations with 150 cm panels Clamping rod present No clamping rod

VerticAL

USER GUIDE: LIFTING / ASSEMBLY

Lifting ring assembly

- To assemble the lifting ring, actuate the pull tab to unlock it, fit it, then release the pull tab. Pull tab

Pallet rings



Lifting instructions



 Following the clamp assembly instructions.
 Lifting on 2 balanced strands with 2 lifting rings.
 maximum liftable area = 16 m² with L maximum = 5 metres

- Maximum package weight = 400 kg.

Service bracket assembly



- Insert the T-shaped screws into the panel groove, turn them by a $\,\%$ turn to the right, then fasten the nuts using the 30 mm wrench to clock the service brackets. - The service brackets must not be more than 2 metres apart.

USER GUIDE: ASSEMBLY

Stringer formwork configuration





- Position the stringer spacers at the centre of the panels in 1.5 m long intervals, and distribute 2 spacers equitably on the 300 cm long panels. Adaptable to 50 to 100 cm panels.

- Stringer configuration with through rods positioned approximately every 150 cm.



USER GUIDE: EXAMPLES OF ACCESSORY USE

COMPLETE SAFETY SYSTEM



ROD PLATE



CONSTRUCTION JOINT



POST CONFIGURATIONS

POST WITH SKIN STOP



DOCUMENTATION



View documentation.

POST CONFIGURATIONS

POST CONSTRUCTION WITH WINDMILL SAIL CLAMP









PANEL STABILISATION

SECTIONS



Height (cm)	Panel details (cm)	Panel details TP (cm)	
150	100 x 150	TP 1.70 - 3.00	/
200	200 x 100	TP 1.70 - 3.00	TP 1.10 - 1.80
200	100 x 50 + 100 x 150	TP 1.70 - 3.00	TP 1.10 - 1.80
250	100 x 100 + 100 x 150	TP 2.10 - 3.50	TP 1.10 - 1.80
250	100 x 50 + 200 x 100	TP 2.10 - 3.50	TP 1.10 - 1.80
300	200 x 150	TP 2.10 - 3.50	TP 1.10 - 1.80
300	300 x 100	TP 2.10 - 3.50	TP 1.10 - 1.80
300	100 x 50 + 100 x 100 + 100 x 150	TP 2.10 - 3.50	TP 1.10 - 1.80

Contact us for other configurations.

Note: maximum wind speed = 85 kmph. Refer to the layout plan.



	SAFETY		COMPLIANCE	STRENGTH	QUALITY
--	--------	--	------------	----------	---------

Props European standard

European standard props are compliant with the EN 1065 and NF P 93-221 standards. Available in 4 classes, they offer the best performances in terms of strength and quality.

European standard props | A range of standardised metal props





The metal prop range offered by Alphi is used on all construction sites.

Available in four classes, props compliant with the EN 1065 and NF P 93-221 standards offer the best performance in terms of quality and strength.

Nevo props include numbering engraved on the slide to simplify adjustment of the prop to the correct height. By facilitating the work of operators in this way, it leads to a proven gain in productivity.

Prop handling is easier using Alphi-designed forklifts: Kross builder 500 (see page 293), TransEtais for long props (see page 314) and TransEtais logement (see page 311).

SAFETY

For added safety, the following are available on props compliant with the NF P 93-221 standard:

- Finger protection inside the sleeve prevents jammed fingers,
- Base web on the sleeve, giving areater distortion resistance at the bottom.

COMPLIANCE

- Compliant with the European standard EN 1065, including lower slide.
- Press test and certification by the independent laboratory Locie of University of Savoie Mont Blanc.
- Verification of ageing in rental housing stock.





COMPLIANT WITH EN 1065 AND NF P 93-221 STANDARDS



EQUIPMENT

		Formwork working load (daN), safety coefficient: 1.65 as per Eurocodes O and 3								
						Cat. No.				
			B25T	B3OT	B35T	B40T	B45T*	B50T*	B55T*	
		Extension (m)	from 1.6 to 2.5	from 1.8 to 3.0	from 2.1 to 3.5	from 2.3 to 4.0	from 2.6 to 4.5	from 2.8 to 5.0	from 3.1 to 5.5	
		1.6 and 1.7	3,090							
	٩	1.8	3,090	3,090						
		1.9	2,854	3,090						
	p	2.0	2,576	3,090						
		2.1	2,336	2,804	3,090					
		2.2	2,129	2,554	2,980					
		2.3	1,948	2,337	2,727	3,090				
		2.4	1,789	2,146	2,504	2,862				
		2.5	1,648	1,978	2,308	2,638		1		
		2.6		1,829	2,134	2,439	2,743			
		2.7		1,696	1,979	2,261	2,544			
		2.8		1,577	1,840	2,103	2,365	2,628		
L		2.9		1,470	1,715	1,960	2,205	2,450		
e		3.0		1,374	1,603	1,832	2,061	2,290	0.050	
ур		3.1			1,501	1,715	1,930	2,144	2,359	
ι. Έ		3.2			1,409	1,610	1,811	2,012	2,214	
Ш		3.3			1,320	1,014	1,703	1,892	2,081	
S		35			1,240	1,420	1,004	1,703	1,301	
as		36			1,177	1,340	1,314	1,590	1,000	
ü		37				1,204	1,355	1,505	1,7 45	
		3.8				1,142	1,284	1,888	1,570	
		3.9				1.084	1,219	1.355	1.490	
		4.0				1,030	1,159	1,288	1,417	
		4.1					1,103	1,226	1,348	
		4.2					1,051	1,168	1,285	
		4.3					1,003	1,114	1,226	
		4.4					957	1,064	1,171	
		4.5					915	1,018	1,119	
		4.6						973	1,071	
		4.7						932	1,026	
	L_	4.8						894	983	
		4.9						858	944	
		5.0						824	906	
		5.1							871	
		5.2							838	
		5.3							806	
		5.4							777	
		5.5							749	

*For export only as per NF P 93-221 standard

Description	Components (mm)						
 Anti-dropout of inner and outer tube Nut end-of-travel stop 400 mm knowl sword 	Class	Unit weight (kg)	Ø Outer tube	Ø Inner tube	Ø Pin	Plate	
	B25T	11.80			14	120 x 120 x 6	
 Protection by hot-dip galvanising 	B30T	13.40		48			
 Optional finger protection 	B35T	15.00					
Tapered captive pin Optional base web	B40T	19.00	57				
Optional base web	B45T	20.30					
	B50T	22.00					
	B55T	23.60					

		Formwork working load (daN), safety coefficient: 1.65 as per Eurocodes O and 3							
						Cat. No.			
			B25N	B30N	B35N	B40N	B45N*	B50N*	B55N*
		Extension (m)	from 1.6	from 1.8	from 2.1	from 2.3	from 2.6	from 2.8	from 3.1
	o	1.6 and 1.7	3,090	00.0		0 1.0			
	0	1.8	3,090	3,090					
		1.9	2,854	3,090					
	°	2.0	2,576	3,090					
	0	2.1	2,336	2,804	3,090				
		2.2	2,129	2,554	2,980				
	° I	2.3	1,948	2,337	2,727	3,090			
	0	2.4	1,789	2,146	2,504	2,862			
		2.5	1,648	1,978	2,308	2,638			
	°	2.6		1,829	2,134	2,439	2,743		
		2.7		1,696	1,979	2,261	2,544		
		2.8		1,577	1,840	2,103	2,365	2,628	
7		2.9		1,470	1,715	1,960	2,205	2,450	
2		3.0		1,374	1,603	1,832	2,061	2,290	
)p€		3.1			1,501	1,715	1,930	2,144	2,359
Ļ		3.2			1,409	1,610	1,811	2,012	2,214
~		3.3			1,325	1,514	1,703	1,892	2,081
ш (3.4			1,248	1,426	1,604	1,783	1,961
3S:		3.5			1,177	1,340	1,014	1,082	1,800
ä		3.0				1,272	1,431	1,090	1,749
		3.7				1,204	1,300	1,000	1,000
		3.0				1,142	1,204	1,427	1,070
		4.0				1,004	1,210	1,000	1,430
		4.0				1,000	1,103	1,200	1,417
		42					1,100	1 168	1,040
		4.3					1,003	1 1 1 4	1,226
		4.4					957	1.064	1,171
		4.5					915	1.018	1.119
		4.6				l		973	1.071
		4.7						932	1,026
		4.8						894	983
		4.9						858	944
	h-	5.0						824	906
		5.1							871
		5.2							838
		5.3							806
		5.4							777
		5.5							749

*For export only as per NF P 93-221 standard

Description	Components (mm)							
 Anti-dropout of inner and outer tube 	Class	Unit weight (kg)	Ø Outer tube	Ø Inner tube	Ø Pin	Plate		
 100 mm hand guard Protection by hot-dip galvanising Optional finger protection Tapered captive pin Optional base web 	B25N	14.10		48	14	120 x 120 x 6		
	B30N	15.80						
	B35N	17.40	60					
	B40N	19.10			45			
	B45N	20.70						
	B50N	22.40	70	60	10			
	B55N	24.00						

EQUIPMENT

		Working load (daN), safety coefficient: 1.65 as per Eurocodes O and 3							
						Cat. No.			
			C25N*	C30N*	C35N	C40N	C45N	C50N	C55N
		Extension (m)	from 1.6 to 2.5	from 1.8 to 3.0	from 2.1 to 3.5	from 2.3 to 4.0	from 2.6 to 4.5	from 2.8 to 5.0	from 3.1 to 5.5
	8	1.6 and 1.7	3,606						
	o	1.8	3,606	3,606					
		1.9	3,606	3,606					
	°	2.0	3,606	3,606		,			
	0	2.1	3,504	3,606	3,606				
	0	2.2	3,193	3,606	3,606				
	-	2.3	2,921	3,506	3,606	3,606			
	0	2.4	2,683	3,220	3,606	3,606			
	0	2.5	2,473	2,967	3,462	3,606		1	
		2.6		2,743	3,201	3,606	3,606		
	2.7		2,544	2,968	3,392	3,606			
	~ . >	2.8		2,365	2,760	3,154	3,548	3,606	
7		2.9		2,205	2,573	2,940	3,308	3,606	
<u>د</u>		3.0		2,061	2,404	2,747	3,091	3,434	0.500
۱b.		3.1			2,251	2,573	2,895	3,216	3,538
F'		3.2			2,113	2,415	2,717	3,018	3,320
,		3.3			1,987	2,271	2,004	2,838	3,122
ۍ د		35			1,072	2019	2 271	2 5 2 3	2 776
as		36			1,700	1,908	2 146	2,385	2.623
ö		3.7				1.806	2.032	2,258	2,484
		3.8				1.712	1.926	2.141	2.355
		3.9				1,626	1,829	2,032	2,235
		4.0				1,545	1,739	1,932	2,125
		4.1					1,655	1,839	2,023
		4.2					1,577	1,752	1,927
		4.3					1,504	1,672	1,839
		4.4					1,437	1,597	1,756
		4.5					1,374	1,526	1,679
		4.6						1,461	1,607
		4.7						1,399	1,539
		4.8						1,342	1,476
		4.9						1,287	1,416
		5.0						1,236	1,360
		5.1							1,307
		5.2							1,257
		5.3							1,210
		5.4							1,166
		5.5							1,124

*Protected threading option (C25T - C3OT)

Description	Components (mm)								
 Anti-dropout of inner and outer tube 	Class	Unit weight (kg)	Ø Outer tube	Ø Inner tube	Ø Pin	Plate			
 100 mm hand guard Protection by hot-dip galvanising Optional finger protection Tapered captive pin Optional base web 	C25N	15.60	60	10	15	120 x 120 x 8			
	C30N	17.50	00	40					
	C35N	19.40		60					
	C40N	21.20	70						
	C45N	23.10							
	C50N	25.00	76	62					
	C55N	26.90		03					
	Formwork working load (daN), safety coefficient: 1.65 as per Eurocodes O and 3								
--------	--	---------------	----------	----------	----------	----------	----------	----------	----------
						Cat. No.			
			D25N*	D30N*	D35N	D40N	D45N	D50N	D55N
		Extension (m)	from 1.6	from 1.8	from 2.1	from 2.3	from 2.6	from 2.8	from 3.1
	0	1.6 and 1.7	U 2.J		0.0.0	10 4.0	04.0	0.0	0.0
	o	1.8		2,060					
		1.9		2,060					
		2.0		2,060		1			
	0	2.1	2,060	2,060	2,060				
	o	2.2		2,060	2,060				
	0 0	2.3		2,060	2,060	2,060			
		2.4		2,060	2,060	2,060			
		2.0		2,060	2,060	2,060	2 060]	
		27		2,060	2,000	2,060	2,060		
		2.8		2,060	2,060	2,060	2,060	2,060	
		2.9		2,060	2,060	2,060	2,060	2,060	
Type N		3.0		2,060	2,060	2,060	2,060	2,060	
		3.1			2,060	2,060	2,060	2,060	2,060
		3.2			2,060	2,060	2,060	2,060	2,060
-		3.3				2,060	2,060	2,060	2,060
		3.4			2,060	2,060	2,060	2,060	2,060
3SE		3.5					2,060	2,060	2,060
ເມື		3.0					2,060	2,060	2,060
		3.7				2,060		2,000	2,000
		3.9						2,000	2,000
		4.0							2.060
		4.1					2,060		
		4.2							
		4.3							
		4.4						2,060	
		4.5						2,000	
		4.6							
		4.7							
		4.8							2,060
		4.9							
		5.0							
		52							
		5.3							
		5.4							
		5.5							

*Protected threading option (C25T - C3OT)

Description	Components (mm)						
 Anti-dropout of inner and outer tube 	Class	Unit weight (kg)	Ø Outer tube	Ø Inner tube	Ø Pin	Plate	
 100 mm hand guard Protection by bot-din galvanising 	D25N	15.60	60	48	15	120 x 120 x 8	
 Optional finger protection 	D30N	15.90	00				
 Tapered captive pin 	D35N	19.10	76	63			
 Optional base web 	D40N	22.70					
	D45N	26.00					
	D50N	31.00	89	76			
	D55N	36.00		70			

European standard props

EQUIPMENT

		Formwa	ork working load	(daN), safety coe	efficient: 1.65 as	per Eurocodes (D and 3
					Name		
			C+E25N	C+E30N	C+E35N	C+E40N	C+E45N
		Extension (m)	from 1.6 to 2.5	from 1.8 to 3.0	from 2.1 to 3.5	from 2.3 to 4.0	from 2.6 to 4.5
	o	1.6 and 1.7	3,606				
	0	1.8	3,606	3,606			
		1.9	3,606	3,606			
	Ŭ	2.0	3,606	3,606			
	o	2.1	3,504	3,606	3,606		
	0	2.2	3,193	3,606	3,606		
		2.3		3,506	3,606	3,606	
	0	2.4	3,090	3,220	3,606	3,606	
	0	2.5			3,462	3,606	
		2.6			3,201	3,606	3,606
		2.7		3,090		3,392	3,606
_	~	2.8			3,154	3,548	
2		2.9					3,308
/be		3.0			0.000		3,091
ŕ		3.1			3,090		
		3.2					
+		3.3					
Ġ		3.4			3,090		
s S		3.5					
as		3.0					
Ü		3.8					3 090
		3.9					0,000
		4.0					
		4.1					
		4.2					
		4.3					
		4.4					
		4.5					
		4.6					
		4.7					
		4.8					
		4.9					
		5.0					
		5.1					
		5.2					
		5.3					
		5.4					
		5.5					

Description			Compone	ents (mm)		
 Anti-dropout of inner and outer tube 	Class	Unit weight (kg)	Ø Outer tube	Ø Inner tube	Ø Pin	Plate
 100 mm hand guard Destastion by bot din golyanising 	C+E25N	16.20	76	63		
 Optional finger protection 	C+E30N	18.30				
 Tapered captive pin 	C+E35N	C+E35N 22.00		15	120 x 120 x 8	
 Optional base web 	C+E40N	27.00	90	76		
	C+E45N	31.00	89			

				Working load IN FORMWORK (daN), EN1065							
					Na	me					
	0		D25 Nevo	D30 Nevo	D35 Nevo	D40 Nevo	D45 Nevo	D50 Nevo			
	0	Extension (m)	from 1.6 to 2.5	from 1.8 to 3.0	from 2.1 to 3.5	from 2.3 to 4.0	from 2.5 to 4.5	from 2.8 to 5.0			
		1.6									
		1.8									
	0	1.9									
	0	2.0									
	õ	2.1	2,060								
		2.2									
) Nevo		2.3									
		2.4		2,060							
		2.5									
		2.6									
ц (2)		2.7									
3St		2.8			2,060						
<u>–––––––––––––––––––––––––––––––––––––</u>		2.9									
•		3.0									
		3.1				2,060					
		3.2									
		3.3					2,060				
		3.4									
		3.5						2,060			
		3.6									
		3.7									
		3.8									
		3.9									
		4.0									
		<u>4.0</u> 5.0									

Use of prop IN FORMWORK	Description	Characteristics (mm)					
	 Trapezoidal double-start 	Name	Unit weight (kg)	Ø Outer tube	Ø Inner tube	Ø Pin	Colour ref.
ALPHI	 threading facilitating the strike-down (8 mm thread) Anti-dropout system (as per 	D25 Nevo	12.60	60	48	48 48.50 63.50 63.50 63.50	
Ī	EN 1065) 100 mm hand guard Captive pin	D30 Nevo	14.70	60.30	48.50		
7	 Engraving of year of manufacture (example: 22 for 2022) 	D35 Nevo	19.40	76.10	63.50		As populiant
	 Slide with numbered holes Epoxy paint nut Sendzimic type material 	D40 Nevo	21.90	76.10	63.50		As per client
2		D45 Nevo	26.00	76.10	63.50		
		D50 Nevo	31.80	88.90	76.10		

European standard props

EQUIPMENT



Use of prop IN DRYING	Description	Characteristics (mm)					
	 Trapezoidal double-start 	Name	Unit weight (kg)	Ø Outer tube	Ø Inner tube	Ø Pin	Colour ref.
	 threading facilitating the strike-down (8 mm thread) Anti-dropout system (as per 	D25 Nevo	12.60	60	48	15	
	EN 1065) 100 mm hand guard Captive pin	D30 Nevo	14.70	60.30	48.50		
	 Engraving of year of manufacture (example: 22 for 2022) 	D35 Nevo	19.40	76.10	63.50		
	 Slide with numbered holes Epoxy paint nut Sendrimit type material 	D40 Nevo	21.90	76.10	63.50		As per client
-		D45 Nevo	26.00	76.10	63.50		
		D50 Nevo	31.80	88.90	76.10		

SIMPLIFIED USER GUIDE

PREPARATORY STAGE

Reception of equipment on the worksite: check quantities and validate delivery note. Prop inspection: do not use warped or damaged props.

Props may be used with the slide up or down, according to the site configuration.





Warped prop





- Bearing surfaces must be flat and stable.



- Ensure that the prop is vertical.

Verticality to Equiva	olerance ∠1 ° alents
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.



- Do not store the props vertically.



- Do not throw props. Stow them in the suitable racks and move them using a crane.



- Do not strike the threading with any tool liable to damage it.



Props other uses

In addition to the standardised prop range, Alphi offers specific props to meet all needs.

EQUIPMENT



DOCUMENTATION



View full documentation. ÷

÷

Anti-dropout of inner and outer tube Nut end-of-travel stop	 Protection by hot-dip galvanising Ø 15 mm captive pin 				

188

EQUIPMENT

		Working load (daN)				
	o			Cat. No.		
	•		ET80	ET110	ET180	
		Extension (m)	0.50 to 0.80	0.75 to 1.10	1.10 to 1.80	
es		0.5	2,886			
OL		0.7	2,886	2,886		
sh		0.8	2,886	2,886		
ິງດີ		1.0		2,886	2,886	
<u>y</u> ir		1.1		2,886	2,886	
Ē		1.2			2,886	
		1.6			2,886	
	\square	1.8			2,886	
		Unit weight (kg)	7.00	8.40	11.00	
			Descr	intion		
		0.1.1.057	2000.			
		 Outer tube Ø 57 mm Inner tube Ø 48 mm 		 Hot-dip galvanised or pa Plate 120 x 120 x 6 mr 	n	
		 Pin Ø 14 mm 		 Holes Ø 13, spacing 80 	x 80 mm	
	~ ~ ~	F	Formwork working load (daN), safety coefficient: 2		
	0			Name		
	0		ES300	ES350	ES400	
	0 0	Extension (m)	from 1.7 to 3.0	from 2.0 to 3.5	from 2.3 to 4.0	
		1.7				
	0	1.0				
	0	20				
	•	2.1				
		2.2	4.050			
G		2.3	1,850			
ädc		2.4				
br		2.5		2,126		
g		2.6				
yin		2./			2 571	
ď		2.9	1 720		2,371	
		3.0	1,590			
		3.1				
		3.2		2,058		
		3.3		1,907		
		3.4		1,765	2,506	
		3.5		1,633	2,310	
		3.6			2,127	
		3.7			1,908	
		3,9			1,663	
		4.0			1,536	

Description	Components (mm)					
 Hand guard 	Class	Unit weight (kg)	Ø Outer tube	Ø Inner tube	Ø Pin	Plate
Captive pin Earged cleave	ES300	11.50	60	48	14	120 x 120 x 6
	ES350	13.70				
	ES400	16.00				



Aluminium Props

Alphi aluminium props are compliant with the EN 16031 standard pertaining to adjustable telescopic aluminium props. The very high mechanical strength of the aluminium props allows a high loading capacity.

Aluminium props | For strong load support





Site: Comédie performance venue Client: Maulini Location: Switzerland



Aluminium props combine a lightweight design and high load capacities.

The geometry of the outer tube allows frames to be **connected quickly** in two orthogonal directions.

They can be **customised** to suit the client's colours.

The geometry of the inner tube with non-continuous threading on the perimeter facilitates **self-cleaning** when the nut is inserted.

COMPLIANT WITH THE EN 16031 STANDARD, ALUMINIUM PROPS OFFERS THE BEST PERFORMANCES IN TERMS OF QUALITY AND STRENGTH.

EQUIPMENT

			Working I	oad (daN)		
				Name		
		U25/15 T1	S35/20 T1	E48/33 T1	D55/35 T1	D62/48 T1
	Extension (m)	from 1.5 to 2.5	from 2.0 to 3.5	from 3.3 to 4.8	from 3.5 to 5.5	from 4.8 to 6.25
	1.5	7,800				
	1.7	7,800				
	1.9	7,800				
	2.0	7,800	8,900			
	2.1	7,800	8,800			
	2.3	7,800	8,500			
	2.5	7,800	8,100			
	2.7		7,600			
sdc	2.9		7,200			
brd	3.1		6,400			
inium p	3.3		5,700	7,900		
	3.5		5,000	7,600	7,500	
m	3.7			6,900	7,100	
a	3.9			6,200	6,600	
02	4.1			5,600	5,900	
Ø 1	4.3			5,000	5,600	
	4.5			4,400	4,700	
	4.7			3,900	4,200	
	4.8			3,600	4,000	4,500
	5.0				3,500	4,300
	5.2				3,100	4,000
	5.4				2,700	3,700
	5.5				2,500	3,400
	5.8					3,100
	6.0					2,800
	6.2					2,400
	Unit weight (kg)	15.50	19.50	25.20	28.00	31.00

•	High-load props	
-	 Carlester e contratester 	

- Light weightCan be used for casting or drying
- Threading to any height, self-cleaning
- Captive slide
- Customisable to suit client's colours
- Plate 160 x 160 mm

- Possibility of extending the outer tube
 Guality epoxy paint for easy maintenance
 Long working life
 Certification by an independent European laboratory according to the EN 16031 standard - Classes D to U
- Note: framed prop tower load capacities available on request.

Description

	0	Working load (daN)				
				Name		
			C+E26/18 T1	C+D30/18 T1	C+D35/21 T1	C+D40/27 T1
	j -10 1	Extension (m)	from 1.8 to 2.6	from 1.8 to 3	from 2.1 to 3.5	from 2.7 to 4
		1.8	6,000	6,000		
		1.9	6,000	6,000		
		2.0	5,500	6,000		
		2.1	5,000	6,000	4,700	
		2.2	4,500	6,000	4,700	
		2.3	4,100	6,000	4,700	
0		2.4	3,800	5,500	4,700	
3 7(2.5	3,500	4,900	4,600	
SC I		2.6	3,200	4,500	4,500	
n prop		2.7		4,100	4,400	3,400
		2.8		3,600	4,300	3,400
iun		2.9		3,200	4,000	3,400
mir		3.0		3,000	3,700	3,400
Alui		3.1			3,400	3,400
		3.2			3,100	3,300
		3.3			2,900	3,200
		3.4			2,500	3,100
		3.5			2,300	3,000
		3.6				2,700
		3.7				2,500
		3.8				2,400
		3.9				2,200
		4.0				2,060
	attin ma					
		Unit weight (kg)	10.50	12.00	14.00	14.50

DOCUMENTATION



View full documentation.

 Small-diameter prop, very lightweight Customisable to suit client's colours High loads • Quality epoxy paint for easy maintenance Can be used for casting or drying
Threading to any height, self-cleaning
Captive slide Long working life Certification by an independent European laboratory according to the EN 16031 standard -• •

Description

Classes D to U

- Plate 120 x 120 mm
- Centre-to-centre distance 80 x 80 mm

Note: framed prop tower load capacities available on request.

EASY	USE	STABILITY	ADAPTABILITY

Accessories Props

Stabilisation, handling, personalisation... a wide range of accessories for easy deployment of Alphi props.

ALL PROP RANGES

	Collapsible galvanised tripod	Unit weight (kg)	Height (cm)	Prop diameter (mm)
		4.70	70	from 55 to 76
	Fork	Working height (cm)	Description	
		14	 For use with timber beams and AL200 	
	Girder clamp	Unit weight (kg)	Description	
ional	4	3.00	 The tube is inserted into the prop used for cladding 	
Additi	Skin clamp	Unit weight (kg)	Description	
	-	3.00	 Stabilising clamp for use with 48 mm tube and collars 	
	Prop clamp*	Unit weight (kg)	Description	
		5.00	 The 45°-oriented rear plate allows fastening after positioning the prop 	
	Dywidag form panel hole flange	Unit weight (kg)	Description	
	A	3.00	 The loop is used either to stabilise a prop, or to receive a tube for holding multiple props 	

*excluding aluminium props

ALL PROP RANGES

	Nanovib® range	Description
oorgne tools	K	 Tools suitable for fitting and removing Alphi formwork: hammers, hammer holder, prop key Vibration and noise reduction
Let		Alphi distribute Leborgne
	Prop rack	Description
ling		4-point slinging at topGalvanised
		See page 303 for the different rack models
Hand	TransÉtais Logement	Description
		Easier prop handling Makes it possible to pass through door openings
	A DATA C	See page 311 for details of TransÉtais Logement

 Self-adhesive labels can be produced with the client's colours and logo a<mark>xi</mark>s a<mark>xi</mark>s axis Epoxy paint (sleeve, slide, nut, etc.) Description RAL according to client's choice **Customisation** Plate and/or handle engraving Description Engraving of plate and/or operating handle on external thread prop (not more than 8 characters for client's name)

Self-adhesive label

Description

*excluding aluminium props

DOCUMENTATION



View full documentation.

ALUMINIUM PROPS

	Frame (aluminium props Ø105)	Dimensions w x h (m)	Unit weight (kg)	
Additional		1.20 x 0.50	10.90	
		1.60 x 0.50	13.00	
		1.90 x 0.50	14.80	
		2.10 x 0.50	15.25	
	d	2.30 x 0.50	16.58	
	1	2.50 x 0.50	17.50	
	Frame (aluminium props Ø70)	Dimensions w x h (m)	Unit weight (kg)	
		1.60 x 0.50	13.00	
	Electrogalvanised quick formwork strike-down tool	Unit weight (kg)	Working load (KN)	
	Ŧ	6.00	100	
	Painted collapsible tripod	Unit weight (kg)	Height (m)	
	$\overline{\mathbf{A}}$	11.00	1.16	
	Setting key	Unit weight (kg)	Description	
		1.50	 Facilitates nut unfastening preparation 	

Connection bolt	Unit weight (kg)
ļ	0.07
Extension	Height (m)
Ι	From 0.50 to 2.00
Flange	Description
4	 Used to associate aluminium props with tubes

STEEL PROPS

	TopCadre props	Dimensions I x w x h (m)	Unit weight (kg)
Additional		1.90 x 1.60 x 1.00	19.80



TIMBER	SAFETY	THEFT PROTECTION

Beams

Both beam ranges, timber and aluminium, satisfy the needs of different worksite configurations. The anti-tipping beams help prevent falls from heights.

Beams | Two ranges for all worksites







Alphi offers two ranges of formwork beams to satisfy the needs of different construction site configurations.

- The AL100 and AL200 aluminium beams favour strong load support. Their specific shape allows the fastening of clips or accessories (e.g. straps) and prevents any slipping with a hammer head screw system.
- The H2O timber beam is used for traditional formwork.
- For added safety, the AL100 beam also has an anti-tipping feature.

LIKE ALL ALPHI ALUMINIUM PRODUCTS, AL200 FORMWORK BEAMS CAN BE PROTECTED FROM THEFT.

BLOCH CONTRACTOR

Switzerland Client: Induni Location: Geneva

EQUIPMENT

	AL200 beam	Name	Technical characteristics*	Length (m)	Unit weight (kg)	Description
s - ALUMINIUM		AL200 - 180		1.80	9.70	 Lightweight, strong aluminium beams Height 20 cm Integrated 30 mm timber insert, suitable for nailing Possible protection from theft and fraudulent recycling
		AL200 - 240	L200 - 240 Maximum allowable moment: 13.5 kN.m	2.40	13.00	of aluminium
		AL200 - 270	Allowable shear force: 37.5 kN Young's modulus: 69,000 MPa	2.70	14.00	
		AL200 - 360		3.60	19.00	
beam	AL100 beam	Name	Technical characteristics*	Length (m)	Unit weight (kg)	Description
Formwork		AL100 - 180		1.80	6.50	 Lightweight, strong aluminium beams with anti- tipping feature Integrated timber insert, suitable for nailing Protection from theft and fraudulent recycling of
		AL100 - 220	Allowable plastic moment: 4.80 kN.m Inertia: 164 cm ⁴	2.20	8.10	aluminium via the inclusion of an insert Clamps onto the primaries via a clip to prevent tipping during use in cantilever configuration
		AL100 - 290	Allowable threshold shear force: 13.60 kN Young's modulus: 69,000 MPa	2.90	10.40	
		AL100 - 360		3.60	12.80	

*Compliant with NF P 93-322 standard Press test and certification by the independent laboratory Locie of University of Savoie Mont Blanc.

	H2O beam	Name	Technical characteristics*	Length (m)	Unit weight (kg)	Description
		H20 - 195		1.95	9.15	 Can be equipped with a protective end fitting, for longer product life
1BER		H20 - 245	Mariana	2.45	11.50	
ms - TIN		H20 - 290	allowable moment: 5 kN.m*** Inertia: 47 50 cm ⁴	2.90	13.60	
Formwork bear	n a kiran	H20 - 330	Allowable shear force: 11 kN***	3.30**	15.50	
		H2O - 360	Young's modulus: 10,000 MPa Linear weight:	3.60**	17.00	
		H2O - 390	4.70 kg/m	3.90	18.30	
		H2O - 490		4.90**	23.00	

* *For sale only * * *Compliant with EN 13377 standard

BEAM ACCESSORIES

				_							
	Fork	Working height (cm)	Description								
		14	 For use with timber beams and AL200 								
	Mounting clip	Unit weight (kg)	Description								
	Jose .	0.19	 Suitable for securing beams 								
	Fork end plate for clams (for AL200 only)	Unit weight (kg)	Description								
Elements		0.20 • Prevents AL200 beams from sliding when they are positioned on a slope DOCUM						NTATION			
	H2O/AL2OO clams	Unit weight (kg)	Description	View full							
	24	0.20	 For mounting H20 on AL200 			do	cument	ation.			
	Formwork support bracket	Material	Unit weight (kg)	MWL (kN)	Safety cient of and m	coeffi- n loads aterial	Desci	ription			
		S235	6.20	20	20 1.65		 Engra See page for details formwork bracket 	ving 249 s of < support			
						0		1			
	Rack	Name	Spacing (cm)	Unit weight (kg)	AL100	AL200	H20	-			
			04 5	50.00		50	50]			

EXAMPLES OF USE

With AL200 beams



- Hollow slab shoring with AL200 beams.

With AL200 and AL100 beams



- Pre-slab shoring with AL200 beams.

With AL200 and H20 beams



- Cast-in-place slab shoring with AL200 and AL100 beams.



- Cast-in-place slab shoring with AL200 and H20 beams.



SAFETY	SIMPLICITY	PI	RODUCTIVITY	INNOVATION



The TourEchaf shoring tower with built-in safety features is quick and easy to use. It can be adapted to all possible configurations. Ergonomic, it offers a proper work surface for worker safety. TourEchaf | The shoring tower with built-in safety features







Changes in French and European tower regulations have led Alphi to focus on a new shoring tower for construction work.

The TourEchaf tower is innovative in its **safety and ease of use**, and its lightweight components.

Its compatibility with scaffolding elements means that cross-bracing, connections and decking between towers can easily be created.

Site: National Library of Luxembourg Client: Tralux Location: Kirchberg

SIMPLICITY

Four identical frames per level Each frame incorporates:

- safety: riser, sill, access ladder,
- automatic locking without pin,
- hoisting eye identified by yellow marking.
- The assembly kinematics are simplified by the single frame, with the same parts being used for each level.

SPEED

1 single plank

- Plank with trapdoor covering half the surface area of a level.
- Unit weight of handled parts less than 15 kg to reduce repetitive strain injury.



Compliant with Cramif NT24 Guidelines





STURDINESS

- The brackets enable strong load support.
- Load support of 6 tonnes per base, regardless of the configuration.

BUILT-IN SAFETY FEATURES

- Plank covering between towers for formwork and formwork removal operations. The work surface created is perfectly secure.
- Plank covering at the head of the towers to link the girders.



Brackets on TourEchaf

ADAPTABILITY

- All configurations are possible: height difference at head, at bases, between towers.
- The components are all compatible and make it possible to combine frames of different sizes to obtain a tower assembly as close as possible to requirements.



Height difference at bases

COMPONENTS

	1.50 m frame	Catalogue Number	Dimensions h x I (m)	Unit weight (kg)
Frames		011156-7	1.00 x 1.50	12.40
	1.00 m frame	Catalogue Number	Dimensions h x I (m)	Unit weight (kg)
		011106-2	1.00 x 1.00	10.80
	1.50 m entrance frame	Catalogue Number	Dimensions h x I (m)	Unit weight (kg)
	t t	011157-5	1.00 x 1.50	11.50
	1.00 m entrance frame	Catalogue Number	Dimensions h x I (m)	Unit weight (kg)
		011107-0	1.00 x 1.00	8.40
		Ostalasus Number	Traval	I lete containe
	2-inlet nead jack	Catalogue Number	(cm)	Unit weight (kg)
		011100-5	60	9.00

lacks	rovel of 60 cm			
J	Base jack	Catalogue Number	Travel (cm)	Unit weight (kg)
	e - X muunaali	011155-9	49	9.20

	Plank with trapdoor	Catalogue Number	Dimensions (m)	Unit weight (kg)
Traffic		011104-7	1.00	11.30
		011154-2	1.50	14.80
	Steel toeboard	Catalogue Number	Dimensions (m)	Unit weight (kg)
	ALL	023724-8	from 1.00 to 3.00	From 1.60 to 5.60
	Steel floor	Catalogue Number	Dimensions w x l (m)	Unit weight (kg)
			0.20 x 1.00 to 1.50	
		According to dimensions	0.25 x 1.00 to 3.00	From 4.70 to 19.50
			0.30 x 1.00 to 3.00	

Additional	Diagonal	Catalogue Number	Dimensions w x I (m)	Unit weight (kg)	Spacing (m)
	H Link height	According to dimensions	0.50 x 1.00 to 1.50		
			1.00 x 0.70 to 2.50	From 2.90 to 9.20	from 1.04 to 3.53
	L Link length		2.00 x 0.70 to 3.00		
	Bracket	Catalogue Number	Description	Unit weight (kg)	
		011152-6	0.38 m bracket	4.40	
		250710-1	1.00 m bracket	8.00	
		250000-7	Connector	2.20	
	Connector	Catalogue Number	Dimensions (m)	Unit weight (kg)	
	1	According to dimensions	from 0.15 to 3.00	from 0.90 to 9.60	

TOURECHAF ACCESSORIES


	Formwork support bracket	Material	Unit weight (kg)	MWL (kN)	Safety coeffi- cient on loads and material	Description
Additional		S235	6.20	20	1.65	Engraving See page 249 for details of formwork support bracket

	Head jack	Catalogue Number	Travel (cm)	Unit weight (kg)
	Travel of 60 cm	050120-5	60	8.50
	Jack triple fork	Catalogue Number	Travel (cm)	Unit weight (kg)
Ils for head jacks	City City City City City City City City	192460-4	58	11.20
teri	Jack fork	Catalogue Number	Travel (cm)	Unit weight (kg)
Additional mat	N C C C C C C C C C C C C C C C C C C C	011153-4	58	9.10
	Four-inlet fork	Catalogue Number	Travel (cm)	Unit weight (kg)
	51	050100-7	-	3.50

TOURECHAF ACCESSORIES

	T1 head jack (MT65)	Catalogue Number	Travel (cm)	Unit weight (kg)
، head jacks	49 Travel of 205 cm	024628-0	20.5	7.20
s for	1-clamp U-bracket	Catalogue Number	Unit weight (kg)	
ıal material	De	251001-4	0.75	
litior	Short head jack	Catalogue Number	Travel (cm)	Unit weight (kg)
Add	rat Travel of 23.2 cm	011101-03	23.2	6.5

	MDS guardrail	Catalogue Number	Height (m)	Unit weight (kg)
	1	256070-4	0.70	5.90
		256100-9	1.00	6.30
		256150-4	1.5	10.10
		256200-7	2.00	11.40
	// 4	256250-2	2.50	13.20
	V	256300-5	3.00	15.00
Safety	Clinch-fit guardrail	Catalogue Number	Dimensions h x I (m)	Unit weight (kg)
		011110-4	2.17 x 1.10	12.00
		011115-3	1.85 x 1.52	13.90

	Storage container	Catalogue Number	MWL (daN)	Unit weight (kg)	Description
		011165-8	1500	110.00	 Medium capacity: 1.00 m connector: 210 1.50 m connector: 130 2-inlet head jack: 50 base jack: 100
	20-frame rack	Catalogue Number	Dimensions (m)	Unit weight (kg)	Description
		011159-1	1.00	77.40	 Loading of 20 classic or entrance frames (1.00 m or 1.50 m).
		011160-9	1.50	84.00	
	13-plank rack	Catalogue Number	Dimensions (m)	Unit weight (kg)	Description
ling		011158-3	1.00	56.00	 Loading of 13 trapdoor floor planks (1.00 m or 1.50 m).
	here	11161-7	1.50	60.00	
Hand	Shifting trolley	Catalogue Number	Dimensions (m)	Unit weight (kg)	Description
I		050103-1	0.90 x 1.20	20.00	 Moving on a concrete slab for heights less than 3 frames
	Shifting trolley with jack	Catalogue Number	Dimensions (m)	Unit weight (kg)	Description
	A	011167-4	1.50 x 1.50	106.00	 Suitable for 1.0 and 1.50 m meshes.
	TourEchaf wheel (with base)	Catalogue Number	Dimensions (m)	Unit weight (kg)	Description
	and the second s	011190-6	0.50 / 0.823	8.50	 200 kg max on mobile equipment = workers with tools

TourEchaf

BUILT-IN SAFETY FEATURES & COLLECTIVE PROTECTION GUARANTEED

"FRAME": THE BENEFITS OF BUILT-IN SAFETY FEATURES



The design of TourEchaf is based on a triangular frame. The frame incorporates all the safety elements: riser, sill, access ladder, automatic locking and a hoisting ring to secure movements using the crane.

The TourEchaf frame weighs 12.4kg

Built-in automatic locking by rotation: - between frames, - between frame and base jack. Movement with a crane is secured.

"TOWER": COLLECTIVE PROTECTION GUARANTEED



With no slides or parts that can fall off; the whole assembly is selflocking and can be moved using a crane.

SIMPLIFIED USER GUIDE

ASSEMBLING A 1.50 X 1.50 M TOWER

- Take care regarding the ground load distribution. - Place the base perfectly level. - Assemble the first level of frames from
- inside the tower. Position the trapdoor opposite the ladder.
- Make sure the towers are stable.
- Centre the load in the forks.
- Make sure the jacks are vertical.



- Location and levelling.



- From the inside of the tower, install the $1^{\,\rm st}$ frame in the diagonal axis and then rotate to lock.



- Install the entrance frame to facilitate access.



- Install two 1-m planks with trapdoor and assemble the $2^{\rm nd}$ level.



- Assemble one floor level in temporary position. - Install a 1st 1-m plank with trapdoor.



- Access to the upper level and then installation of the $2^{\rm th}\,\text{plank}$ with trapdoor.



- Assemble the 3rd level.



Reinstall the planks with trapdoor in their final position to obtain 2.00 m between floor levels. - Moving the 1^{st} plank with trapdoor.



- Moving the $2^{\mbox{\tiny nd}} \mbox{plank}$ with trapdoor from the lower level.



- The first floor level can be removed. - Access to the upper level via the built-in ladder.



- Set up and adjust the head jacks.

Assembling a TourEchaf with 2 and 4 levels (even) of frames



COMPOSITION CHARTS

	Number of frame levels	1	2	З	4	5	
	Minimum height (m)	1.82*	2.37	3.37	4.37	5.37	
m (Maximum height (m)	2.46	3.46	4.46	5.46	6.46	
1.50	Base jack	4	4	4	4	4	
0 ×	1.50 m connector	4	4	4	4	4	
1.5	1.50 m entrance frame	1	1	1	1	1	
wer	1.50 m frame	3	7	11	15	19	
То	2-inlet head jack	4	4	4	4	4	
	1.50 m trapdoor plank with trapdoor	0/2	2	2**	4	4	
	Unit weight (kg)	140/170	220	270	350	400	

Tip for counting				
= number of levels + 0.37 m				
= number of levels + 1.46 m				
= 4				
= 4				
= 1				
= (number of levels x 4) - 1				
= 4				

	Number of frame levels	1	2	3	4	5
	Minimum height (m)	1.82*	2.37	3.37	4.37	5.37
	Maximum height (m)	2.46	3.46	4.46	5.46	6.46
шС	Base jack	4	4	4	4	4
1.0(1.50 m connector	2	2	2	2	2
wer 1.50 x	1.00 m connector	2	2	2	2	2
	1.50 m entrance frame	1	1	1	1	1
	1.50 m frame	1	3	5	7	9
P	1.00 m frame	2	4	6	8	10
	2-inlet head jack	4	4	4	4	4
	1.00 m trapdoor floor plank with trapdoor	0/2	2	2**	4	4
	Unit weight (kg)	130/150	200	250	310	360

*Minimum height determined by the length of the two jacks **Allow two additional floor planks with trapdoor for assembly

	Number of frame levels	1	2	З	4	5
	Minimum height (m)	1.82*	2.37	3.37	4.37	5.37
	Maximum height (m)	2.46	3.46	4.46	5.46	6.46
ш	Base jack	4	4	4	4	4
1.0(1.00 m connector	4	4	4	4	4
wer 1.00 x	1.00 m entrance frame	1	1	1	1	1
	1.00 m frame	3	7	11	15	19
	2-inlet head jack	4	4	4	4	4
P	1.00 m trapdoor plank with trapdoor	0	1	1	2	2
	Floor plank 0.20 x 1.0	0	1	1	2	2
	Floor plank 0.30 x 1.00	0/3	0	0***	0***	0***
	Unit weight (kg)	130/140	190	230	290	330

* * * Allow for three additional 0.30 x 1.00 m floor planks for assembly starting from 3-level towers

SPECIFIC POINTS

ERGONOMICS

- TourEchaf was specially designed to limit repetitive strain injury.
- The weight of the most common parts is less than 15 kg and they are ergonomic to handle.
- Their design makes them easy to lift with a crane in order to limit disassembling and reassembling.

Shifting



- On a concrete slab, the towers are easy to move, with their special trolleys. - Do not shift a tower taller than three frames (four

frames with the shifting trolleys with jack].

Lifting



 The possibility of lifting with a crane is provided via built-in hoisting rings. This operation is facilitated and secured by the automatic locking of the tower elements, including the base jack.

Handling



- The TourEchaf frame is installed from the inside of the tower, with just one interlocking point.



Installing a plank

- To facilitate installation, hold the end with the right hand and forearm. - Start by placing both hooks under the ladder.



- Lower the plank, leaning on the frame.



Raise the plank - Two handles have been specially added under the plank to facilitate this operation.

Access



- The two planks with trapdoor are placed every 2.00 m for a "scaffolding" type access.

Storage



- The frames are packaged vertically, ready to be assembled to avoid having to bend down to straighten them.

EFFECTIVE DIMENSIONS

TECHNOLOGY AND STRENGTH

The allowable vertical load is 6 tonnes per post for a tower height below 6 m. Beyond that height, a special strength and stability calculation must be performed.

Low TourEchaf



Standard TourEchaf with 2-inlet head jacks and stud-free bases - Variable height: 1.46 to 2.06 m.



TourEchaf with 2-inlet head jacks and stud-free bases - Tower consisting of single 0.50 m posts and diagonal braces - Variable height: 0.96 to 1.56 m.

Functional dimensions



- Because of the wind, stabilisation rules must be applied, particularly during assembly and disassembly.

- Under harsher conditions of use, towers must no longer be isolated, but braced together or secured to the existing structure in order to stabilise them in all directions.

Standard TourEchaf with 2-inlet head jacks and base jacks

- With a single frame level: variable height of 1.82 to 2.46 m.

- Minimum height determined by the length of the two jacks.

Stability





Shoring Tower A 120

The A12O tower is a shoring tower that can be assembled and disassembled in complete safety. High-performance, it allows a load of 3 tonnes/foot.

A120 tower | The shoring tower with safety features





Site: La Cartoucherie -Car park Client: Eiffage Location: Toulouse

ShoringTowerA120

Alphi shoring towers satisfy the needs of all types of projects: the **A120 tower** is an effective solution for user safety; **low towers** are available for specific requirements.

As recommended in the CRAMIF NT24 guidelines, the A120 tower can be assembled and disassembled in complete safety, limiting the risks of falls from height.

Compliant With the guidelines Of Cramif Technical Report No. 24

SAFETY

- Safe assembly from the lower level.
- Built-in safety features.
- No connectors between ladder frames.

Compliant with the guidelines of CRAMIF technical report No. 24

- This technical report concerns ladder shoring towers and other shoring towers from 2.50 to 6 m tall.
- Its aim is to improve this equipment and therefore also user safety.

The guidelines concern limiting:

- falls from heights,
- repetitive strain injury,
- falls at ground level,
- towers collapsing or tipping,
- handling and manoeuvring.





ADAPTABILITY

- The A120 tower exists in three sizes: 120x130 - 120x160 - 120x220 cm.
- It can be used with TopDalle formwork, with Alto formwork decks, and with the whole range of Alphi beams (AL200, AL100, and H20).



PERFORMANCE

- Allowable load of 30 kN/foot.
- Can be handled with a crane.

HANDLING

- Monte-Tour helps gain 52% productivity in both the assembly and disassembly phases
- It helps reduce arduous working conditions and repetitive strain injuries and prevents falls from height (see page 263).

COMPONENTS

	Guardrail	Dimensions (m)	Unit weight (kg)	Description
		0.75 x 1.60	8.36	• For 1.00 m ladder
re	Access guardrail	Dimensions (m)	Unit weight (kg)	Description
Central structu		1.25 x 1.60	13.50	• For 1.50 m ladder
	Ladder	Height (m)	Unit weight (kg)	Description
		1.00	16.50	 4 rungs
		1.50	24.30	• 6 rungs
	Deck with trapdoor	Dimensions (m)	Unit weight (kg)	Description
Decks		0.52 x 1.60	14.49	 Aluminium and timber floor
	Deck without trapdoor	Dimensions (m)	Unit weight (kg)	Description
		0.50 x 1.60	13.40	 Steel floor

	Adjustable base	Min/max height (cm)	Unit weight (kg)	
Se		from 20 to 70	6.50	
Ba	Base plate	Height (cm)	Unit weight (kg)	
		9.6	1.60	

	Slide 1.50 m	Min/max height with jack (cm)	Unit weight (kg)
ad		from 36 to 136	6.50
He	Intermediate head jack	Unit weight (kg)	
		2.91	

Intermediate base jack	Unit weight (kg)	
	2.84	
Slide 1.50 m	Min/max height with jack (cm)	Unit weight (kg)

2-inlet	Min/max height	Unit weight
adjustable fork	(cm)	(kg)
	from 8 to 66	7.56

	Formwork support bracket	Material	Unit weight (kg)	MWL (kN)	Safety coefficient on loads and material	Description
Additional		Galvanised steel	6.20	20	1.65	Engraving See page 249 for details of formwork support bracket

A120 TOWER ACCESSORIES

	Clinch-fit beam guardrail	Dimension (m)	Unit weight (kg)	Description	
		1.60	4.00	 Fixed guardrail 	
		1.20	4.00	 Component with hook 	
	7	1.20	4.00	 Offset component with hook 	
ifety	Skin clamp	Unit weight (kg)	Descr	ription	
ŭ	-	3.00	 Stabilising clamp for use with 48 mm tube and collars 		
	Tower clamp	Unit weight (kg)	Descr	ription	
		3.50	 Used to secure the tower to a skin Has a safety hook 		
	Dywidag form panel hole clamp	Unit weight (kg)	Descr	ription	
		3.00	 The loop is used a riser, or to re- holding multiple 	d either to stabilise ceive a tube for risers	

	Shifting trolley with rack	Dimensions (m)	Unit weight (kg)	Description
dling		1.60 x 0.98 x 1.19	85.40	 Can be used to move towers without disassembly
Han	Monte-Tour	Description		
		See page 263 for description of Monte-Tour		

SIMPLIFIED USER GUIDE

SAFETY

- A120 Tower assembly procedure for complete safety at all times.











A and D: decks with trapdoor B and C: decks without trapdoor



COMPOSITION CHARTS

	Height at bottom of fork min max (cm)	183 - 286	278 - 386	378 - 486	478 - 586	578 - 686
tom	Component			Quantity		
bot	Adjustable base	4	4	4	4	4
the le to	Ladder 1.50 m	2	2	2	2	2
is at at th	Ladder 1.00 m	0	2	4	6	8
Jase ks a	Access guardrail 1.60 x 1.25 m	2	2	2	2	2
ble l e for	Guardrail 1.60 m	0	2	4	6	8
usta tabl	S-pin	0	4	8	12	16
adji djus	Adjustable fork	4	4	4	4	4
with nd a	½ single plank	1	1	1	2	2
ers	½ plank with trapdoor	0	O	1	1	2
Tow		Unit weight (kg)				
	Unit weight of a basic steel tower measuring 1.20 x 1.60 m	129.00	180.00	231.00	281.00	332.00

	Height at bottom of fork min max (cm)	168 - 226	268 - 326	468 - 526	468 - 526	568 - 626
L	Component			Quantity		
ottor p	Base plate	4	4	4	4	4
le bo le to	Ladder 1.50 m	2	2	2	2	2
at th at th	Ladder 1.00 m	0	2	4	6	8
tes a rks a	Access guardrail 1.60 x 1.25 m	2	2	2	2	2
plat e foi	Guardrail 1.60 m	O	2	4	6	8
aase tabl	S-pin	O	4	8	12	16
ith k djus	Adjustable fork	4	4	4	4	4
rs w nd a	1/2 single plank	1	1	1	2	2
owel a	1⁄2 plank with trapdoor	O	O	1	1	2
Ŧ		Unit weight (kg)				
	Unit weight of a basic steel tower measuring 1.20 x 1.60 m	109.00	159.00	210.00	261.00	312.00

EFFECTIVE DIMENSIONS



Towers with adjustable bases at the bottom and adjustable forks at the top





Towers with base plates at the bottom and adjustable forks at the top





DOCUMENTATION



View full user guide.

Low towers with adjustable bases at the bottom and adjustable forks or slides at the top



Low towers with base plates at the bottom and adjustable forks or slides at the top



Low towers with base plates at the bottom and adjustable forks at the top





SAFETY	SLINGING	ADAPTABILITY



Alto decks can be used to create platforms on shoring towers and work surfaces for form panels, material stockpiles, prefabricated components and front face overhangs.

Alto | A complete deck range





Site: Comurhex II conversion plant Client: GTM Sud, SM Entreprise Location: Narbonne



Alto decks come in **3 sizes**. All decks are equipped with **safety** features and accessories that facilitate **handling**.

The **AlphiSafe** safety system can be mounted at ground level.

Retractable **hoisting rings** are built into the deck. The slinging procedure is completely safe, from laying on the ground to the definitive positioning of the deck.

COMPONENTS

	Alto	External dimensions (m)	Total surface area (m²)	Panel weight (kg)	Plywood type	Maximum allowable load (kN/m²)
ks		4.40 x 1.40	6.16	225.00	30 mm gross thickness	15
Dec		2.40 x 2.26	5.42	235.00		
	Comments of the second s	4.40 x 2.40	10.56	435.00		

ALTO ACCESSORIES

	Mesh	Dimensions w x h (m)	Unit weight (kg)	Description
		1.25 x 1.30	7.60	 The wire mesh is galvanised, with polyester powder coating
	AlphiSafe	2.50 x 1.30	14.50	
ety	Galvanised post	Cross-section (cm)	Height (m)	Unit weight (kg)
Saf		3.5 x 3.5	1.34	3.50
	Adapter with anti-dropout	Name	Diameter (mm)	Unit weight (kg)
	4.	Prop adapter	38	1.96

ALTO ACCESSORIES

	Hoisting eye	Description
		 Lifting/slinging
	Lifting beam	Description
Handling		 For lifting and moving Alto deck
	Deck clamp	Description
		 Securing Alto deck to a skin

SIMPLIFIED USER GUIDE

LIFTING/SLINGING

When slinging the panel, make sure no material or equipment is stored on the Alto deck.





- Eight keys are located all over the Alto panel to insert quarter-turn hoisting eyes.



- Built-in retractable hoisting rings.

POSITIONING WITH SLING

- Use of a sling with four 4-m long strands. - Each strand and its hook should have a minimum MWL of 1 tonne.



- Sling the Alto deck, with safety system mounted on the ground.



- Set up towers according to the plan provided and position the Alto decks on the primaries.



- Check that the deck is correctly positioned on the towers (distance from base to edge of deck < 60 cm).



- Warning (stability): comply with the layout plan and Alphi recommendations.



- Installation of the form panel ballast.



- Form panel installation



- Warning (stability): in the context of a point load such as form panel ballast, comply with the plans provided and the specific procedures.

POSITIONING WITH LIFTING BEAM

A lifting beam should be used when the use of slings is not authorised. However, installation with slings is the preferred method.



- The position of the Alto deck should be centred on the lifting beam forks so as to balance the loads.



- Warning (stability): limit overhangs to prevent the risk of tipping.

DOCUMENTATION



View full user guide.



PERFORMANCE	SIMPLICITY	QUALITY	ADAPTABILITY

Support Bracket

This support bracket can be used with all commercially available beams compatible with the two-inlet fork. It can be mounted easily, on a skin, post or girder, using a concrete screw.



Support Bracket

The Alphi formwork support bracket has a **load** capacity of 20 kN. It can be mounted easily, on a skin, post or girder, using a concrete screw. It is used with a 48 mm diameter adjustable fork.

DOCUMENTATION



View full documentation.

Formwork support bracket in use

COMPONENT

	Formwork support bracket (mm)	Material	Unit weight (kg)	MWL (kN)	Safety coefficient on loads and material	Description
Component	DG2 DG2 DG2 DG2 DG2 DG2 DG2 DG2 DG2 DG2	Galvanised steel	6.20	20	1.65	Engraving

FORMWORK SUPPORT BRACKET ACCESSORIES

	2-inlet adjustable fork	Unit weight (kg)	
Additional		7.56	
	Hilti screw	Length (mm)	Description
		115	 HUS4-H14 h_{nom} = 115 mm load: refer to manufacturer's instructions
	21 mm wrench	Diameter (mm)	
)	21	


AphiSafe

The AlphiSafe collective protection system is set up safely from below. The mesh is designed with two layers increasing its stiffness. A comprehensive range of adapters which make all assembly configurations possible.

AlphiSafe | Safety done safely!





Site: La Poste Immo Client: Spie Batignolles Location: Lyon 7th arrondissement



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

The system's technical innovations allow, in particular, **safe installation** and **automatic locking**.

Robust AlphiSafe is certified by Ginger CEBTP, as per the EN 13374 standard, classes A and B for certain elements.

AlphiSafe is distinguished by its **height of 1.30 m**, which is above the minimum height of one metre set by the standard, and protects traditional slab formwork up to 30 cm thick.

AlphiSafe is the first certified system to have a protective mesh of less than 15 kg, for a length of 2.50 m.

AlphiSafe | Safety done safely!



SAFETY

- Safe installation from bottom.
- Height of 1.3m.
- Compliant with the EN 13374 standard or July which specifies that safety systems must be designed "to avoid accidental removal or displacement of any component in any direction during use".



COMPLIANT WITH EN 13374 STANDARD



SIMPLICITY

- Anti-dropout.
- Automatic locking of the grid.
- Inseparable components.



ERGONOMICS

- Unit weight of components: less than 15 kg for the mesh and less than 7 kg for the other elements.
- Helps to reduce repetitive strain injuries.



3 SIMPLE COMPONENTS

1	Primary adapter	Unit weight (kg)	Description
Adapters		1.40	 A comprehensive range of adapters which make all assembly configurations possible

2	Galvanised post	Cross-section (cm)	Height (m)	Unit weight (kg)	Description
sts	ST. Statement of the st	3.5 x 3.5	1.34	3.50	 The clips are incorporated into the posts which means they cannot be lost.
Pos	Post	Cross-section (cm)	Height (m)	Unit weight (kg)	Description
	- Contraction of the second seco	3.5 x 3.5	1.49	4.60	 Includes the baseboard support and a Ø 25 mm extension

3	Mesh	Dimensions w x h (m)	Unit weight (kg)	Description
leshes		1.25 x 1.30	7.60	 The mesh is available in 3 lengths: 1.25, 2.40 and 2.50 m Other lengths on request Mesh size: 120 x 145 mm It is designed with 2 layers that increase its stiffness and 1 low baseboard (solid board) Baseboard height: 16 cm
2		2.50 x 1.30	14.50	 The mesh can be customised to the client's colours

ALPHISAFE ACCESSORIES

	Primary adapter	Unit weight (kg)	A
	4	2.30	
	Prop adapter	Unit weight (kg)	ے ba
		2.10	•
<i>(</i> 0	HorizontAL adapter	Unit weight (kg)	To Axia
Adapters		6.30	
	Slab base	Unit weight (kg)	Т
		1.40	
	Adapter Ø 25 mm	Unit weight (kg)	Univer
		1.00	1 200

Adapter (Unit v (k	veight g)	
-	1.:	30	
Adapter barrier a	for town pplication	Unit v (k	veight g)
7	3.1	60	
TopTable Axial	Unit v (k	veight g)	
	K	5.90	3.30
Table die	adapter	Unit v (k	veight g)
	2.1	20	
Beam a	Unit v (k	veight g)	
		7.20	3.60

	AlphiSafe rack	External dimensions L x W x H (m)	Empty weight (kg)	Number of meshes carried	Maximum working load (kg)	Description
Handling		1.69 x 1.23 x 1.71	228	30 or 60	1000	 Option to stack 2 racks with the following accessories: posts, adapters, stacking frame, 1.25 x 1.60 m crosspieces Removable bins with truck fork passages Option to stack multiple bins for storage

AUTOMATIC LOCKING







INNOVATIONS

The system's main technical innovations: - automatic head locking, - lift protection, - base locking in rotation.



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







SIMPLIFIED USER GUIDE

ON SLABS

A tensile force of 8.85 kN shall be applied to the screw with an ultimate load combination.

For more information concerning use of the screw, please refer to the screw manufacturer's recommendations.



Secure the adapter to its support. A concrete screw of at least 12 mm in diameter is recommended.



- Clip the post in the adapter.



- Lift the mesh so that it locks automatically into the posts.



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

IN CANTILEVER CONFIGURATION ON DALPHI, TOPDALLE AND TOPDALLE ECO FORMWORK

- The collective protection is set up from ground level, so that users can walk on the formwork in complete safety.





WITH THE TOPDALLE SYSTEM ON PROPS

- The AlphiSafe system helps secure worksite phases progressively. - Once the first area is secured, the formwork set-up can continue.







DOCUMENTATION



View full user guide.



Nonte-Iour

The Monte-Tour systems offers a revolutionary tower assembly system, in the opposite direction from traditional assembly. This removes the risks of falls form height and falling objects.

Monte-Tour | A revolutionary tower assembly system





Traditionally, a shoring tower is assembled from the lowest level upwards, finishing at the top.

Alphi innovates and offers a new way to assemble towers, in the opposite direction from traditional assembly. The workers start by assembling the top, and finish at the bottom.



SAFETY AND ARDUOUSNESS PERFORMANCES

All handling operations are carried out by two workers from ground level. Safety is ensured and the work is less arduous. The hands are never higher than heart level.

Monte-Tour in use

Monte-Tour | A revolutionary tower assembly system



HANDLING

- Can be used to move an assembled tower up to 6 m in height.
- The stability of the system allows it to be moved on uneven surfaces.

ARDUOUSNESS

 Reduced arduousness and repetitive strain injury: no element is lifted higher than the heart.





PRODUCTIVITY

- The clear increase in productivity is 52%, for both assembly and disassembly.
- Beyond 6 m, sections can be erected and assembled using a crane.
- The Monte-Tour can be used in any weather because it is watertight.

SAFETY

- Falls from heights are eliminated: the worker no longer needs to climb the tower before its assembly is complete.
- The tower cannot be assembled without all of its safety elements (pins, frames, etc.).
- Disassembly takes place under the same safety conditions.

SAFETY INSTRUCTIONS

RECOMMENDATIONS

The useful recommendations for handling the Monte-Tour are indicated on the apparatus.

ONLY duly authorised operators can use this machine.









machine in order to detect any damage.

Check that there are no obstructions or overhead hazards.



USE The machine MUST be stabilised before use. Never move over soil, but only over concrete slabs.

CRANE HANDLING

Lower the mast and use the crane handling hooks located on either side of the mast (yellow colour).

Avoid significant shocks when positioning on the ground.





SIMPLIFIED USER GUIDE

ASSEMBLY

This guide indicates the various stages of use of the Monte-Tour.
In order to find out the assembly drawing for a shoring tower, refer to the document provided by the shoring tower supplier.
Do not pass under the load.



Position a 1 metre ladder with its guardrails.
 Assemble the guardrails: ensure that the keys lock (automatic).



Position a second 1 metre ladder.
Position the pre-set forks as desired.



- Using the Monte-Tour, raise the first level so as to be able to insert a second 1 metre ladder.



Assemble a second ladder under the first level using pins.
Repeat the operation for the other ladder.



Assemble the guardrails: ensure that the keys lock (automatic).
Position the working planks in the tower.



Repeat the operations to the desired height.
Pre-set and position the base jacks on 1.5 metre ladders.



- Insert the first followed by the second 1.5 metre ladder. - Assemble the 2 levels using the pins.



Fit an entrance frame.Position the final working planks in the tower.

SAFETY

DISASSEMBLY

- Take care to position the forks correctly in the final tower ladder level.



- Lift the tower from the ground using the Monte-Tour.



- Disassemble the cross-members. - Disassemble the ladders.



Lower the tower as disassembly progresses.
Remove the guardrails.
Remove the decks.



- Remove the ladders. - Repeat the operations.

DOCUMENTATION



View full user guide.



SAFETY	PRODUCTIVITY

Escalib MDS

Escalib MDS is a metal spiral staircase with side exit. Access to levels is easy and secure, by means of a triangular step acting as a landing. Assembly and disassembly are performed in complete safety, with collective <u>protection</u>. Escalib MDS | Worksite spiral staircase with side exit



Escalib MDS

Escalib MDS (Safe Assembly and Disassembly) is a metal spiral staircase with side exit. The triangular step then acts as a landing.

Simply arrange Escalib MDS by rotating by a quarter-turn so that one of the steps is aligned with the slab to be served. It is formed from a base, 1 to 8 modules that are easy to stack with a crane and a head guardrail closing the passage (maximum height 20.10 m).

Set-up under collective protection (harness-free) is quick and easy: 4 nuts per module. Each module is equipped with collapsible guardrails, hinged about a non-detachable end.

Escalib can be moved using a crane.

Its small footprint facilitates its installation, even on small sites.





SAFETY

Easy, secure access

All levels are accessible without adaptation.

Assembly and disassembly with collective protection

The guardrails are built-in (harnessfree).

PRODUCTIVITY

- Quick installation and movement.
- Compact footprint.
- Only 3 different single-block elements.
- Can be handled with a crane.
- Compatible with 2- and 3-rail Escalib.

QUALITY

Robust and galvanised

Powder-coated paint version available.







CONTAINER TRANSPORTATION: ESCALIB IN KIT FORM

- To enable container transportation, bolted versions of Escalib MDS modules are also available. They are geometrically identical to the welded version and perfectly compatible.
- The risers, stringers and steps are supplied as spare parts, ready to be assembled.
- The base is used as a template for assembly. Once the assembly has been bolted, the guardrail rails need to be assembled as for a standard module.



Each module is packaged in pack form.



Detailed assembly instructions are supplied with the equipment, making the operation quick and easy.

Modules in kit form are supplied with the tools and fasteners required. The technical data in respect of strength, use and assembly specified in this document remain valid.



COMPONENTS





	Base	Catalogue Number	Dimensions (m)	Min/max height (m)	Unit weight (kg)
Base		013045-0	1.68 x 1.68	from 0.47 to 0.67	184

Escalib MDS

ESCALIB MDS ACCESSORIES

	Collar	Catalogue Number	Unit weight (kg)	Description
		013049-2	2.0	 Slip resistance: 515 daN SLS Positioned along module risers
ent	Tethering half-collar	Catalogue Number	Unit weight (kg)	Description
anchoring equipm		018570-2	0.66	 Slip resistance: 515 daN SLS Mounted on the holes situated 1.50 m from the bottom of the modules
and	Petzl ring	Unit weight (kg)	Description	
Tethering		0.06	 Use to secure the tower clamp onto a skin 	
	Tower clamp	Unit weight (kg)	Description	
		3.50	 Used to secure the tower to a skin Has a safety hook 	
	Plastic folder for verification report	Catalogue Number	Unit weight (kg)	
dditional		NC0410	0.30	
Ad		NC0411	0.00	

SIMPLIFIED USER GUIDE

HEIGHT COMPOSITION

Not more than 8 stacked modules Above this value, please contact the design office.

8 users per module, limited to 20 on Escalib MDS.

Make sure that the ground level intended to receive the Escalib MDS is capable of withstanding the loads. Tethering mandatory for winds above

72 km/h.

Tethering mandatory from 3 modules, then every 3 modules for winds below



Side A: main entrance

Example 1: Height of slab to be served 4.50 m, Escalib MDS consisting of 2 modules. Exit side C on second module.

Example 2: Height of slab to be served 5.50 m, Escalib MDS consisting of 3 modules. Exit side A on second module.



A*, B*: Position the upper module to access the last 4 steps

Escalib MDS

SIMPLIFIED USER GUIDE

ASSEMBLY & DISASSEMBLY

- Fit tethers as assembly progresses. Perform disassembly in the reverse order of assembly.
- Make sure that the ground level intended to receive the Escalib MDS is capable of
- withstanding the loads. General handling and stability guidelines must be adhered to.
- The assembly rail cannot act as a substitute for the closing guardrail.



Orient the base according to height of slab to be served and level.
Installation 8 cm from the wall to facilitate tilting of

the guardrail at the exit.



 In the module, attach the sling, with the guardrail in the closed position and the assembly rail in the horizontal position.



- Fit the module onto the base.

- Assemble the 4 risers.
- Detach the sling.



- Position a new module.



Rotate the assembly rail into the vertical position and lock on the top step.
Assemble the risers.

- Detach the slings.
- Repeat the previous steps and tether.



- Position and bolt the closing guardrail: the assembly rail is in the horizontal position.



With the slings attached to the 2 hoisting rings, position the head module.
Assemble the 4 risers.



- At the entrances, position the rails, prioritising the main entrance on side A.

HOISTING & MOVING

- Fit tethers as assembly progresses. - Perform disassembly in the reverse order of assembly.

Make sure that the ground level intended to receive the Escalib MDS is capable of withstanding the loads.

General handling and stability guidelines must be adhered to.



 Put the guardrails back in place to prevent any side exit.
 Check that the M24 screws are fastened.
 Attach the crane hooks onto the 2 hoisting rings and remove the tethers.



- Moving the Escalib MDS. - Orientation according to the height to be served by pivoting in 90° steps. - Installation 8 cm from the wall.



- Ground positioning and levelling of Escalib MDS.



- Tether the Escalib MDS before detaching the slings from the crane.



- At the entrances, position the rails, prioritising the main entrance on side A.



- Make sure that the tethers are fitted before detaching the slings.

- Tilt the guardrails to create the exit at the desired level.

DOCUMENTATION



View full user guide.



SAFETY	MODULARITY	DURABILITY	SIMPLICITY



Modular and reusable, the new Podium safety platform meets all worksite constraints. Its millimetric settings mean that it can adapt to all shaft dimensions.

Podium | The adjustable safety platform



SAFETY





Podium is a **safety platform with adjustable dimensions** for temporarily filling the various shafts in a building: lift, goods lift, technical duct, stairwell, etc.

This extendable platform is designed to **adapt to the size of the shaft** in order to receive the vertical formwork used to produce the skins.

The range is made up of different modules and supports, meeting all worksite constraints. Made of galvanised steel, the podium is reusable.

Using a simple and quick procedure. the size of the Podium is adjusted using a central nut positioned on each side.

The AlphiSafe collective safety system can be fitted to the Podium.

Podium

SAFETY

- Lifting side panels providing an outside view of proper positioning of the Podium on its supports.
- Retractable stands for secure transportation.

PRODUCTIVITY

- Adjustable dimensions enabling equipment reuse and optimisation.
- Quick and easy installation thanks to the Podium's built-in gauges.
- Wheels for easier setting and movement.
- Marked for immediate identification in procedural drawings and on the worksite.

880

SIMPLICITY

- Form panel wrench-compatible nut for adjusting podium size.
- Rollers guiding the podium inside the shaft.
- Can be handled with a forklift or crane thanks to the lifting rings.



Lifting side panel



Rollers for positioning in the shaft and lifting rings



Marking

Wheel for easier setting and movement

SAFETY

Gauges simplifying length adjustments

Retractable stands

D

DURABILITY

MADE OF GALVANISED STEEL, THE PODIUM IS STURDY AND REUSABLE.



Form panel wrench-compatible nut for adjusting size

MODULARITY

DIFFERENT DIMENSIONS FOR ALL SHAFT SIZES.

CONTINUOUS ADJUSTMENT TO THE NEAREST MILLIMETRE.



COMPONENTS

	Padium	Shaft dime	Unit weight	
	Foulant	l x w min	l x w max	(kg) -
		1.68 x 2.48	2.48 x 3.73	1,100
itforms		2.48 x 2.48	3.73 x 3.73	1,455
		2.48 x 3.33	3.73 x 4.98	1,820
ā		1.28 x 1.28	1.78 x 1.78	570
		1.28 x 1.68	1.78 x 2.48	780
		1.68 x 1.68	2.48 x 2.48	825

PODIUM ACCESSORIES

	Clapper	Unit weight (kg)	Description
		13.00	 Podium support Mounted on the skin before positioning the Podium Reserved area or Ø32 bore MWL = 2000 DaN
	Ratchet	Unit weight (kg)	Description
quipment	R	25.00	 Podium support Mounted on the Podium Reserved area to be provided beforehand Stand can be used for transportation MWL = 3 000 DaN
ting e	Magnetic reserved area	Description	
Mount		 Magnet to be positioned on vertical formwork to leave a reserved area to support the ratchet 	
	Flywheel attachment	Unit weight (kg)	Description
		12.00	 Safely fitted and released from inside the building

ACCESSORIES

	Mesh	Dimensions w x h (m)	Unit weight (kg)	Description
Safety	AlphiSale	1.25 x 1.30	7.60	 The wire mesh is galvanised and coated with polyester powder Compliant with EN 13374 standard
		2.50 x 1.30	14.50	
	Galvanised post	Cross-section (cm)	Height (m)	Unit weight (kg)
		3.5 x 3.5	1.34	4.20
	AlphiSafe adapter	Unit weight (kg)		
		1.00		
	Preparation sheet	Description		
Additional		 Worksite configuration sheet specifying the mounting method and the associated safety devices 		
USER GUIDE: PODIUM PREPARATION

SIZE ADJUSTMENT





- Stand in retracted position.



- Setting screw (HM36 nut).



- Length is adjusted by fastening/unfastening the

The Podium rests on its wheels during this operation, therefore, the transport stand must be retracted.



- The length adjustment is made with built-in gauges.

Setting screw	Length setting
А	L1
В	L4
С	L2
D	L3

Podium

SIMPLIFIED USER GUIDE: ASSEMBLY WITH CLAPPERS

CLAPPERS

The clapper is a support for receiving the Podium.

and then operates automatically. MWL = 2,000 daN





The Podium is positioned in the shaft.
The clappers are inserted into the reserved spaces from inside the cage.



- A winged nut is fastened on the other side of the skin to clamp and lock each clapper.



- The Podium is lifted using a crane. - The side panels lift automatically.



- The clappers retract when the Podium passes.



- The clappers open out automatically and the Podium passes over them.



- Place the Podium on its bottom profile.



 Remove the slings.
 The lifting hooks retract and the panels are lowered automatically.



- Install the form panels.

SAFETY

SIMPLIFIED USER GUIDE: ASSEMBLY WITH RATCHETS

RATCHETS

human intervention to lock the ratchets.

MWL = 3,000 daN





- Place the Podium at the bottom of the shaft to be secured.



- Release the ratchets. - Raise the Podium to fit the ratchets in the reserved areas on the walls.





- By means of the side panels that lift automatically when the Podium is slinged, check that the ratchets are positioned correctly in the reserved areas provided.



Remove the slings: the lifting hook retracts and the side panels are lowered automatically.



- Install the wall formwork.



- Repeat the operation for the other levels.

DOCUMENTATION



View video of full user guide.





Designed by Alphi and K-Ryole, the French electric handling forklift, Kross Builder 500, can move up to 500 kg of equipment effortlessly. By optimising the formwork and shoring phases, this innovation helps increase worksite productivity.

Kross builder | Removing arduous handling conditions





Kross builder 500 is an electric handling forklift that can be used to transport up to 500 kg of equipment effortlessly.

Alphi has designed, in partnership with K-Ryole, a specific module for handling formwork and shoring components. **Productivity increases 8-fold!**

Electric and ergonomic, the Kross builder 500 helps reduce repetitive strain injuries and occupational accidents

It can be used in **any areas**, even those which are restricted and have no crane access, on uneven surfaces and on access ramps.





View full documentation

Handling of props

PRODUCTIVITY

- Handling times are divided by 8.
- Can be used to transport a large volume of equipment straight to the work area, to avoid several round trips with manual loading.
- Anyone can use it: the forklift does not require skilled workers.
- Real-time load cancelling technology:
 500 kg = 1% of worker's load.
- Capable of transporting 1 tonne of equipment per hour: 1 day of standard handling is reduced to 1 hour with Kross builder 500.



ERGONOMIC DESIGN

- Load handling-related arduous working conditions and repetitive strain injuries are reduced.
- Thanks to its tiltable bin, the props can be loaded almost vertically.
- The reduction in manual handling limits occupational accident risks.
- No noise or air pollution.

SIMPLICITY

- Easy to learn.
- Easy handling using just a handle or a button.
- When the handle is pushed or pulled, the motors respond instantaneously to cancel the forklift's weight and load.
- No specific training or accreditation needed.





Kross Builder

Side panels: removable panels for easier loading and flexible working volume, flat bottom

Bin angle of up to 70°: easier loading / unloading for heavy use

Control and operation: easy-to-use ergonomic handle Start button, horn, antitheft security

Engine assemblies:

2 x 1,500 watt electric engines

100% ELECTRIC

- Battery life in heavy use 2 days (7 hrs/day)
- Battery life in moderate use 3 days (4 hrs/day)
- Quick charging: 5 hrs

Tipping system: hydraulic jack and unit to manage module tilt

CLEARANCE

- Zero tipping risk
- Clears a 15 cm edge
- Clears a 17% gradient

Housing, electric charger

Remote control

DIMENSIONS

- Width 85 cm
- Length 272 cm
- Height 65 cm

AREAS OF USE

Handling of props



Handling beams



Handling frames and formwork panels



Handling shoring tower components





Pro Tools

The professional tools designed by Leborgne help make work less arduous. The nanovib[®] range consisting of hammers and prop keys meets Alphi requirements in respect of safety, and vibration and noise reduction.



Pro Tools

Alphi's ongoing innovation process is aimed at making work less arduous and reducing repetitive strain injuries. For this reason, the company has naturally joined forces with Leborgne, a company specialised in professional tools for the construction sector to prevent arduous worksite conditions.

Of the various ranges offered by Leborgne, Alphi is particularly impressed with the hand tool range, nanovib[®]. The tools in this range are the result of a process conducted with various prevention bodies such as OPPBTP, CARSAT or SIST-BTP, and offers a solution for every professional in the construction sector.

The partnership signed in 2012 between Leborgne, CAPEB and IRIS-ST makes it possible to test tools and ensure the impartiality and objectivity of the results obtained.





View full Leborgne documentation.



EQUIPMENT

	Formwork hammer	Specific features	Description
	FRANCE	 Rounded claw angles 	 40% less vibrations Steel shaft with high resistance to off-target blows Ergonomic handle Non-slip grip Flared handled end to prevent slippage Magnetic nail holder
ស្	1-tooth carpentry hammer	Specific features	 Lateral hammering surfaces Sharp top edges
Hammer	FRANCE	 Straightening lug Hammering surface with 2 rounded angles 	
	Wood-frame house assembly hammer		
	FRANCE		

	Long-range form stripping tool	Specific features	Description	
tools		 Prevents risks of bad postures and accidents 	 1.85 m handle, which does not require the use of a rolling safety ladder Offset tip with respect to the handle so that the user is not under the plywood panel when it falls down 	
ther	Hammer holder	Specific features	Description	
ð				



handling Racks

Alphi offers a wide range of galvanised, stackable or wheeled racks adapting to all handling requirements and to all of its products.

Handling racks | Convenient and handy





The vertical storage rack in use



Alphi handling racks have been designed to reduce **repetitive strain injuries.**

The wheeled racks make it possible to store Alphi products **effortlessly** and make it easier to travel through worksites.

The entire Alphi rack range can be transported using **cranes** or using **slings** thanks to four hoisting rings.





View full documentation

EQUIPMENT

	Vertical storage rack	External dimensions W x L x H (m)	Number of TopDalle secondary beams carried	Empty weight of rack (kg)	Handling Maximum allowable load (kg)	Description
l racks		0.83 x 1.04 x 1.60	18	85.00	400	 Can be handled by the crane when full thanks to four hoisting rings Wheels: 4 steerable (including 2 with brakes)
Specia	AlphiSafe rack	External dimensions w x l x h (m)	Number of meshes carried	Empty weight of rack (kg)	Maximum working load (kg)	Description
		1.23 x 1.69 x 1.71	30 or 60	228.00	1000	 Option to stack 2 racks with the following accessories: posts, adapters, stacking frame, 1.25 x 1.60 m crosspieces Removable bins with truck fork passages Option to stack multiple bins for storage
	Rack on wheels	External	Empty weight	Maximum	Descriptio	on

Spectropped properties 0.77 x 0.95 x 1.09 49.00 1,000 • Slinging using 4 lifter • 4 steerable wheels 2 with brakes) posit corners for optimur and stability	
	ng rings (including cioned in th n handling

	Painted rack	External dimensions W x L x H (m)	Empty weight of rack (kg)	Maximum working load (kg)	Description
		1.07 x 1.15 x 1.04	27.00	900	 Slinging using 4 lifting rings
	Galvanised rack	External dimensions W x L x H (m)	Empty weight of rack (kg)	Maximum working load (kg)	Description
le racks		1.07 x 1.15 x 1.04	28.00	900	 Slinging using 4 lifting rings
Stackabl	Meshed sheet metal rack	External dimensions w x l x h (m)	Empty weight of rack (kg)	Maximum working load (kg)	Description
		1.67 x 1.20 x 0.84	110.00	1,500	 Slinging using 4 lifting rings
	Small-format sheet metal rack	External dimensions W x L x H (m)	Empty weight of rack (kg)	Maximum working load (kg)	Description
		1.20 x 0.80 x 0.80	115.00	1,500	 Slinging using 4 lifting rings

Handling racks

EQUIPMENT

	Beam rack	External dimensions W x L x H (m)	Empty weight of rack (kg)	Maximum working load (kg)	Description
le racks		1.10 x 1.23 x 1.21	50.00	1,500	 Slinging using 4 lifting rings Galvanised
ackab	Prop rack	External dimensions W x L x H (m)	Empty weight of rack (kg)	Maximum working load (kg)	Description
Сŗ.	Щ	1.05 x 1.33 x 0.95	44.00	1,500	 4-point slinging at top Galvanised

	Accessory rack	Dimensions w x l x h (m)	Unit weight (kg)	Description
L racks		0.7 x 1.545 x 0.475	80.00	 Stackable container with built-in lifting rings Rating plate can be customised with client's name Partitions for storing all the accessories (MWL 1500 kg) Optional protective cover
erticA	Galvanised rack	Dimensions I x w (m)	Unit weight (kg)	Description
N		1 x 1.5	107.00	 Can be handled with a crane (sockets for slings) or a forklift End partitions removable for easy cleaning
		0.90 x 2.7	118.00	 Rating plate with client's name





The TranEtais Housing trolley is particularly suitable for residential building sites. Its angle of inclination and its four steerable wheels make it easy to pass through doors and travel through corridors.

TransEtais Housing | Facilitating passing through doors







Alphi has designed the TransEtais Housing trolley, which facilitates the work of form fitters and helps to reduce **repetitive strain injury**.

It can carry enough props to **create a 20** m² surface area.

It is especially suitable for **residential building sites**. Travel through corridors is easy thanks to the four steerable wheels.

An **automatic prop locking** system has been developed to **prevent the risk of falling objects** during handling.

DOCUMENTATION



View full documentation

TransÉtais Logement trolley in use



Iransetais

The TransEtais trolley is particularly suitable for transporting long props. Its design helps ensure form fitters' safety and reduce repetitive strain injuries.

TransEtais | Easy transport of long props







For long props, Alphi has designed the TransEtais trolley to facilitate the work of form fitters.

The low raising of the props (only 10 cm), the various compartments of the trolley, the non-skid system, and the ergonomic bar of the TransEtais contribute to the safety of personnel and the reduction of repetitive strain injuries.





View full documentation.

TransEtais trolley in use

Designed and produced by: Alphi Communication

Designed and produced by: Alphi Communication Department Credits: Adobe Stock, Alphi, Atypix, Gérard Borre/ Phot'on Air, Aline Boros, Jérôme Cabanel, Marie-Hélène Carcanague, Philippe Caumes, Yves Croce, Joël Damase, Benoit Diacre, Laurent Fabry/Studio Arly Photography, Freepik, Annie Gozard, Photo GPO, Cédric Helsly, Ronan Kerloch, Leborgne, Hervé Le Dû, Losinger Marazzi, Gilles Mansard/Office de tourisme d'Aix-les-Bains, Manuel Moulin/GFC, Sandrine Michard, Alain Montaufier, Guillaume Mussau, Newaru, Optima Strasbourg, Mathieu Pixx, R Craft Visuals, Lisa Ricciotti, Christian Rome, Romain Rubini, Yves Trotzier, Philippe Zamora, X. Published: January 2023 Published: January 2023

Printed in France







alphi.fr/en/

adria-sa.ch alphilux.lu alphi-formworks.com alphi-africa.com alphi.pt alphi.uk

Head Office

Savoie Hexapole - Bâtiment A 129, rue Nicolas Copernic 73420 Méry - FRANCE Tel. +33 (0)4 79 61 85 90 info@alphi.fr **Paris office** 58/60 rue des Osiers 78310 Coignières - FRANCE Tel. +33 (0)1 30 52 24 30

info.paris@alphi.fr

Bordeaux office

16, avenue de la Garonne 3440 Saint-Louis-de-Montferranc FRANCE Tel. +33 (0)6 50 87 47 27 info.bordeaux@alphi.fr Logistics hub ZI le Jasmin 73240 Saint-Genix-les-Villages FRANCE Tel. +33 (0)4 76 91 98 91