

# alpi south east asia co.,ltd.

*We'll get your concrete in shape.*



SYSTEM MODULAR FORMWORK:  
BUILDING & INFRASTRUCTURE TECHNOLOGIES.

*We'll get your concrete in shape.*



SYSTEMS FOR FORMWORK AND FALSEWORK

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<http://www.alpisea.com>

THE STRENGTH  
BEHIND BUILDING &  
CIVIL ENGINEERING.



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**Distributed by:**



# ringlock scaffolding system

HIGH LEG-LOAD  
CAPACITY.

Ingenious connector  
technology made of 8  
connections in one.



**alpisea's ringlock** scaffolding system is the simplest method of connecting horizontals and diagonals to verticals in one single action. One hit of a hammer on the wedges is sufficient to obtain complete stability and safety of the connecting component.



HIGH-TECH  
SCAFFOLDING  
SYSTEM.



- Multidirectional.
- Without use of loose fittings.



# caplock scaffolding system

SAVING TIME AND LABOR COSTS.

Optimum adaptability,  
to get your concrete  
in shape.

**alpisea's caplock** scaffolding system is ideal for a wide range of applications such as facade, circular scaffold, birdcage access and staircase access is a well proven heavy duty false-work support system which is relatively light, easy to assemble and is suitable for soffit support or access on building and civil engineering projects.



LIGHTWEIGHT WITH HIGH LOAD  
CARRYING CAPACITY.

- Galvanised steel.
- Durability.
- Strong.

The principal feature of **alpisea's caplock** scaffolding system is the unique node point - locking up to four horizontals in one single action without the use of nuts, bolts or even wedges. The locking device is formed by a fixed lower cap, which is welded to the vertical at 0.5 m intervals, and a sliding upper cap. The forged blade ends of the horizontals are located in the lower cap. The upper cap is moved down and rotated by hammer blows to give a positive and rigid connection.



# falsework & formwork

- Shoring system,
- Ringlock scaffolding system,
- Caplock scaffolding system,
- Standard panel,
- Custom made,
- Culvert / Tunnel,
- Precast mould,



# accessories

**alpisea** engineers have designed special accessories to facilitate production efficiency and to extend the life of the our formwork & falsework system.

Small tools and components must be as versatile as the formworks themselves.

- ties and anchors,
- second-operation moulds,
- small PVC tools and components,



# services



- Design,
- Methods,
- Project Management,
- Assembly,
- Technical Assistance,
- Commissioning,
- Skilled Labor Supply,

# software



**alpisea** are closely aligned with the Autodesk (Auto-CAD, 3ds Max/Design), AceCad (Stru-CAD), Solid-Works and other software corporations, to keep our entire team and business at the cutting edge of the latest software innovation and developments.

The **alpisea's scaffolding, midi** and **mini** formwork systems is supported with a HIGH TECH software that will calculate, estimate the quantities to help manage your project more efficiently.

# mini

## LIGHT WEIGHT FOR LIGHT WORK.

In small-medium building sites, moulds have to be installed individually for every cast and formwork which often have to be handled without cranes. Our lightweight **mini** panel formwork system are specifically designed for this requirement.



- panels weigh only  $35 \text{ kg/m}^2$  and can easily be handled without a crane;



- permitted pressure greater than  $50 \text{ kN/m}^2$ , with bending less than  $1/300$ ;
- steel box section frames provide maximum torsion strength;

## COMPLEX STRUCTURES EVEN WITHOUT CRANES.

- 10 cm high edge section with out holes (for easier cleaning) having a patented outline which allows clamps to be fitted around the entire perimeter (for jointing and/or overlapping panels, including staggered configurations)
- Form facing are equipped as standard with a 2.3 mm steel plate



# midi

## HIGH-TECH MODULAR ELEMENTS.

Modern building sites demand formwork that is able to provide increasingly sophisticated performance alignment. The old methods of locking panels with pins and wedges simply doesn't meet our standards.

We design and test simple, fast coupling systems which ensure that panels are perfectly **coplanar** (no offset), **well-locked** (no loss of grout) and accurately **aligned** (no additional stiffening for handling over large surface areas)

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This objective has now become a tangible reality; steel **midi**, a system developed and patented by **alpisea** on the basis of its many years of on-site experience.



- Standard heights of 300 and 150 cm (with relative widths of 150, 120 and 90 cm)
- Permitted pressure of  $<80 \text{ kN/m}^2$  with bending of  $<1/300$  in the space between supports
- 3 ties for  $h=300 \text{ cm}$  panels (1 tie per square metre) and just 2 ties for  $h=240$  panels (0.82 ties per square metre)



- Boxed profile with patented edge profile of  $h=10 \text{ cm}$  which allows alignment clamps to be fitted along the entire perimeter of the panel
- Patented alignment clamp for rigid alignment and overlapping of panels which can then be handled easily for large surface areas.
- **midi** panel system comes with a 3.2 or 4.5 mm thickness steel plate panel.



# custom made

**alpi-sea** is the clear leader now at producing **customized** formwork and falsework systems that can be implemented **in-situ**, where you have traffic or ongoing situational concerns. Our systems are adjustable in height, width, do not rest on the ground, and they are usually erected **without interrupting traffic**.



For both type of **Movable Scaffolding Systems (MSS)**, overhead and or underslung, the systems consists of a self-supporting structure. As is the case with all our custom made systems, we provide our clients with the most

**cost-effective**, easy to use solutions for every situation. **alpi-sea** systems are easily adaptable to any cross section and span configuration, ranging from double T, single or double box, etc., and any span widths.





# culvert & tunnel



Our business is not just limited to the production, sale and hire of our systems. We extend into infrastructure site problems, **solving** tasks to find the best and most **cost-effective solutions** to your needs.



For any special applications such as arches or any type of tunnel work, **alpisea** tunnel formwork systems operated manually or self propelled is particularly cost effective, since 80% of the carriage consist of using **alpisea** standard products such as panel and scaffolding systems.

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# precast mould

More and more bridge and elevated roads are now constructed using prefabricated segments.



Following this trend **alpisea** has developed and supplied large project moulds for I Girder, T Girder, Cross Beam, Tunnel and segmental for **short** and **long-line systems**.

Precast segments are cast at a centralized yard, loaded on the trailer and carried to the deck via the already constructed approach.



To meet customers individual requirements, **alpisea** supplies a variety of highly-versatile



moulds solutions for **pre and/or post-tensioned** method of construction.