

ALUMINIUM FORMWORK SYSTEMS

VABA

One Stop Solution
For All Formwork and Scaffolding Needs
www.vaba.co.in

STEEL
SCAFFOLDING



VABA

Manufacturers & Exporters Of:
**ALUMINIUM FORMWORK SYSTEM
& STEEL SCAFFOLDING**



ABOUT US

At VABA we are at the forefront of the construction industry as manufacturers of high-quality aluminum formwork systems and steel scaffolding. With two sprawling, state-of-the-art factories located in Talaja, Mumbai, India, in close proximity to the sea port, we are strategically positioned to cater to the needs of construction projects nationwide.

Our commitment to innovation and cutting-edge technology is evident in our fully automated manufacturing facilities, equipped with advanced machinery and equipment. This ensures that our products meet the highest standards of quality, precision, and durability, enabling us to deliver superior formwork solutions to our valued clients.

With a strong focus on structural concrete formwork engineering and design, we provide comprehensive services for projects of all scales and complexities across WORLD. Our expertise encompasses a wide range of formwork solutions, including proprietary systems, custom-designed systems, and job-built systems. We specialize in the design and engineering of formwork for monolithic construction, stair cores, elevator cores, walls, one-sided walls, slabs, beams, girders, and various other structures.

Our highly skilled team of formwork DESIGNERS excels in handling complicated, state-of-the-art structures, extreme heights, and heavy loads. They collaborate closely with our clients' project teams, even during the bidding stage, to evaluate formwork solutions and devise effective planning strategies. With a focus on cost-effectiveness and safety, we strive to deliver concrete structures with impeccable quality finishes.

At VABA we take great pride in our professionalism, timely project management, and unwavering dedication to customer satisfaction. We work closely with our clients to understand their unique requirements and deliver tailored formwork solutions that exceed their expectations.

VABA experience the seamless integration of cutting-edge technology, expertise, and unrivaled customer service

Bansal's

Aluminium Formwork Systems

VABA Aluminium Formwork Systems are meticulously crafted from high-quality, corrosion-resistant, and durable aluminium alloys. Typically, the alloys employed are 6061-T6 or 6082-T6, renowned for their strength and lightweight properties. The panels are expertly manufactured through extrusion, a process that involves forcing molten aluminium through a die to achieve precise shapes. These panels are then seamlessly interconnected using pins or bolts, and their joints are carefully sealed with gaskets to ensure leak prevention.

Applications:

VABA Aluminium Formwork Systems offer remarkable versatility, facilitating the creation of diverse concrete structures such as walls, columns, beams, slabs, and foundations. Their exceptional suitability is particularly evident in large, intricate projects where swiftness and precision are paramount.

Advantages:

There are numerous advantages associated with utilizing VABA Aluminium Formwork Systems, including:

Accuracy:

VABA Aluminium Formwork Systems are renowned for their precision, guaranteeing the adherence to required specifications during the construction of concrete structures. VABA Aluminium Formwork Panels ensure precise construction, contributing to the creation of accurate concrete structures. Accuracy is influenced by the manufacturing process and material quality.

Customization:

VABA Aluminium Formwork Systems can be customized to meet specific project needs.

Durability:

VABA Aluminium Formwork Systems exhibit outstanding durability, enabling multiple reuses. This aspect translates to substantial savings for contractors in terms of both material and labor costs. VABA Aluminium Formwork Panels are highly durable, designed for extensive reuse. The longevity of the panels relies on careful use and quality materials

Aluminum Formwork Systems

Finish:

VABA Aluminium Formwork Panels facilitate the achievement of a smooth finish on concrete surfaces. The final finish depends on the choice of formwork coating.

Reusability:

VABA Aluminium Formwork Systems are engineered for extensive reuse, resulting in significant cost savings for contractors in terms of materials and labor. The number of times the system can be reused depends on several factors, including the project type, meticulousness of use, and material quality.

Speed:

VABA Aluminium Formwork Systems are designed for rapid assembly and disassembly, effectively expediting the construction process and allowing projects to adhere to tight schedules.

Smooth Finish:

VABA Aluminium Formwork Systems contribute to achieving a flawless finish on concrete surfaces, thus minimizing the need for additional finishing work.

Storage:

To maintain the integrity of VABA Aluminium Formwork Systems when not in use, it is imperative to store them in a clean, dry environment. Adequate protection from external elements and potential damage caused by other materials should be ensured.

Warranty:

VABA Aluminium Formwork Systems are accompanied by a warranty to guarantee the quality and performance of the system..



Wall Panel

W x L (mm)	Weight (kg)	Weight combined with Rocker(kg)
600 x 2450	26.6450	27.300
450 x 2450	19.730	21.8



Slab Panel

Size	Weight (kg)	Size	Weight (kg)
600 x 1200	13.5	400 x 1200	9.9
450 x 1200	10.8	300 x 1200	8.1

The Slab Panel will be used to support the concrete weight during concrete pouring and casting



Beam Bottom Slab Panel

Soffit Panel will be used to cover the bottom of then beam.



Slab Corner

Size	Weight (kg)
125H	5.3

Connection between Wall Panel & Slab Panel



Slab Incorner

Dependent upon each structure

Connection between Wall Panel & Slab Panel (inside)



Slab Outcorner

Dependent upon each structure

Connection between Wall Panel & Slab Panel (outside)



Prop Head

Size	Weight (kg/m)
150 x 300	2.3

Used to join the beams together (Middle beam and/or End Beam), the pipe support will be placed under the prop head



Middle Beam (MB)

Dependent upon each structure

Size	Weight (kg)
150 x 900	7.6
150 x 1050	8.7

Used to join the prop head, the middle beam support the slab panels



End Beam (EB)

Dependent upon each structure

Size	Weight (kg)
150 x 600	5.1
150 x 900	7.3
150 x 1050	8.4

Used to join the prop head and slab corner, the end beam support the slab panels



Joint Bar

Weight (kg/m)
1.8

Used to joint the prop heads with the beam (Middle beam and/or End Beam)



Special Prop Head

Dependent upon each structure

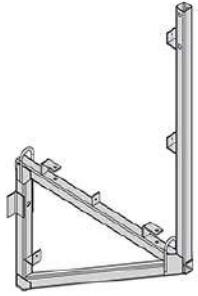
Used to join the beams together (Middle beam and/or End Beam), the special prop head will be placed where a normal prop head cannot be installed



AL - (A/G) Release

Size	Weight (kg)
65 x 65	1.9

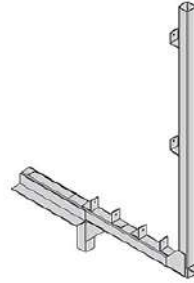
Used to join panels together around the corners



Wall Platform

Weight (kg/m)

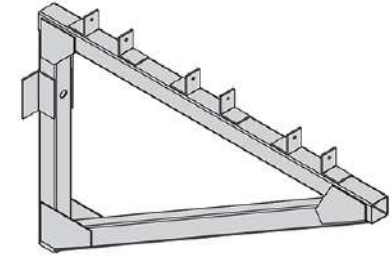
16.19



Slab Platform

Weight (kg/m)

9.4



Elevator Platform

Weight (kg/m)

12

As a substitute of a scaffolding system, these wall platform, slab platform and elevator platform will be fixed on the concrete. (Wall/Slab/Elevator) and used as working platform for workers.



Flat Tie

The Flat tie is used to joint the wall panel to the opposite side's wall panel. Depending on the wall panel's height, the number of flat tie used will vary.



PVC Sleeve

Weight (g/m)

580

Made of PVC material, the PVC sleeve will be installed between the Wall panel and the opposite side's wall panel. The flat tie will be inserted inside this item in order to protect the flat tie to be casted within the concrete.



Props Support

Type	Length
V-1	1800mm ~ 3200 mm
V-1	2000mm ~ 3400mm
V-1	2400mm ~ 3800mm
V-1	2600mm ~ 4000mm

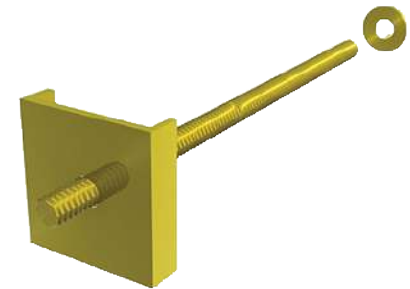
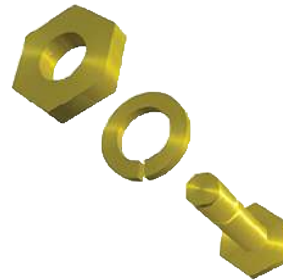
The pipe support is used to support the weight of the slab during concrete pouring and casting. It will remain under the prop headhead until 2 levels of casting.



M . Wedge & Round pin OR Long pin

The Round pin and Wedge pin will be used to joint the Wall or Slab panels together.

The Long pin and Wedge pin will be used to fix the Joint pin with the prop head and beams (Middle beam or End beam) together.



Waller-Bracket & Square pipe

The Waller-bracket and Square pipe are used to allow the horizontal straightness of wall panels and a flat wall surface (especially at the bottom) after concrete casting.

Bolt, Nut & Washer

This set of accessories will be used as an embedded anchor in order to fix panels on the concrete surface during its installation.

Tie Rod

This accessory will be used as an embedded anchor in order to for the Bracket on the concrete surface during its installation.

GALLERY



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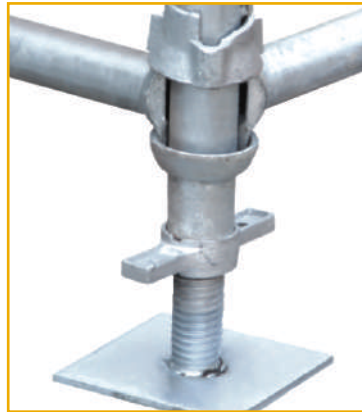
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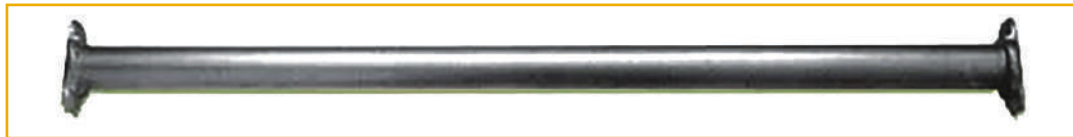
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Steel Scaffolding

Cuplock System



Cuplock System is one of the most efficient supporting system. This system is compatible to Cuplock System & offers the same function. It provides simplicity & versatility with simple erection & dismantling procedures. It is also used for various applications like construction, ship building, maintenance, offshore, etc.



Horizontals are also known as Ledgers and they are fitted to the Vertical to make a proper Scaffold. They are available in different lengths as per the customers' requirement. Horizontal Length is calculated between centre to centre of two Verticals.

SPIGOT



Verticals are also known as Standards, made from highest quality steel tubes with a set of top & bottom cups arranged at a distance of 500mm. The forged blade ends of the Horizontal (Ledgers) are placed into the bottom cup & the top cup is moved down and rotated to secure the components in place, and tightened by a hammer blow. Verticals are available in different lengths from 0.5 mtr. to 3.0mtr. Verticals are connected by spigots or sockets.

CuplockSystem



Intermediate Transomlt gives additional support to the structure by fitting them at different levels horizontally from one ledger to another. Sizes available are same as of the Ledgers. They enhance the load bearing capacity of the system.



Horizontal Omega Transom are used in place of ledger & provide a firm location for timber or Steel Planksto fit in scaffold at different levels to make walkway / working platform. By using this, use for clams or any other fastening device is avoided.



Adjustable Jacks



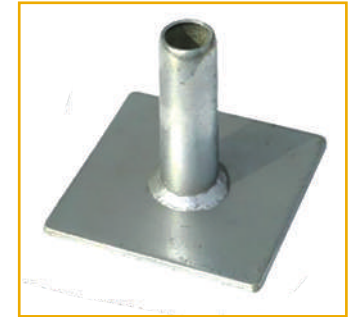
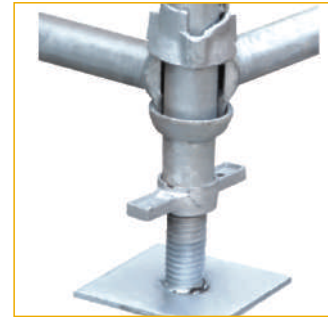
Universal Jack



Base Jack



U Head/Stir-Up Head



Fixed Plate



O (mm)	Height (mm)	Types
32	350 / 450	Solid
34/36	600	Solid
38	600	Hollow

Adjustable Jacks are manufactured in hollow steel tubes & steel round bars. They are made on hydraulic roll threading machine for smooth & easy operation even during load. These jacks are generally used at the bottom of scaffold which is known as Base Jack & the one used at the top of the scaffold to hold the steel beams or wooden battens is known as stirup head (U head). With these jacks final adjustments in heights are made either from the top or bottom. Base Jack also helps in maintaining the level of the scaffold on uneven floors or fixed base plates can be used at the bottom.

Anti Skid Planks



Anti Skid Platform / Walkwat Planks

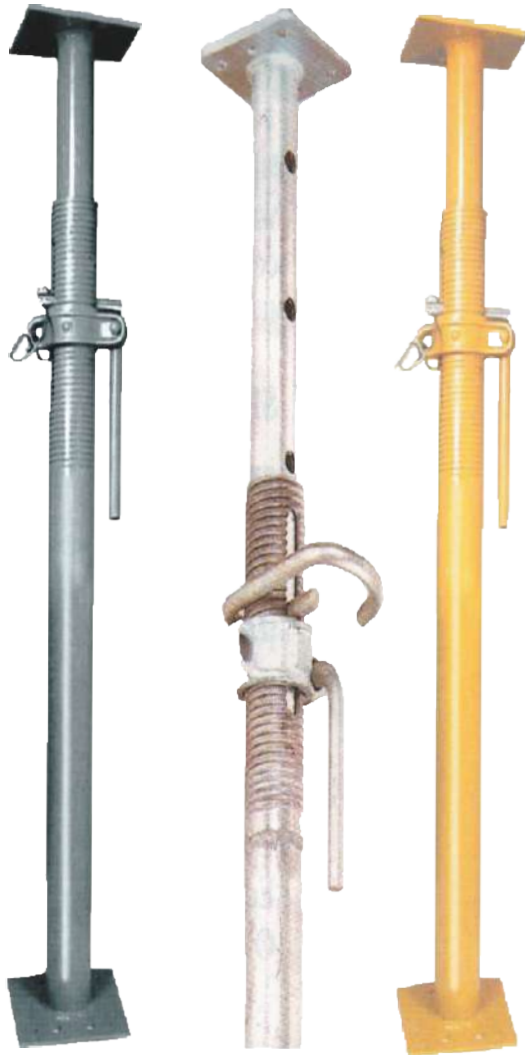
Steel Walkway are commonly known as steel Battens or plaster phally. They are available in different various sizes ranging from 0.5 mtr. To 4.0 mtr. in length and 0.2 mtr. to 0.5 mtr. in width. They serve as walk way and working platform at different levels and can be easily used with omega supports or ordinary ledgers.

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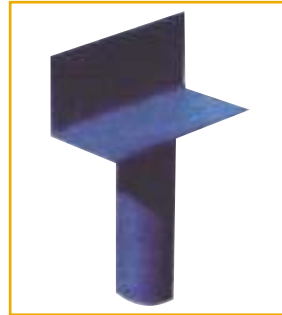
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Adjustable Props



Electro Galvanised

Die-Painted



Angle Head



Flat Base

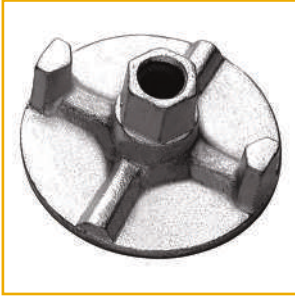


U Head

O (mm)	Outer Tube (mm)	Inner Tube (mm)	Height of Use (mm)		Safe Axial Load in Kgs.	
			Min.	Max.	Min.	Max.
1	1500	2000	2000	3200	2950	2200
2	2000	2000	2000	3750	2875	2000
3	2000	2500	2500	4250	2475	1500
4	2000	3000	3000	4700	2275	1150

Adjustable Steel Prop also known as telescopic steel props are the commonly used supporting device. for all kinds of forms work, slabs, beams, wall and columns. Our Props are specially made on Hydraulic roll trading machine by which the life and load bearing capacity of the props is greatly enhanced. We make Props of all sizes with various top supports depending upon customer's requirement. We also make Electro Galvanised Props

Fittings



Anchor Nut



Wing Anchor Nut



Tie Rod



Water Stopper



Waller Plate



Top Cup



Bottom cup



Ledger Blade



Prop Nut



Jack Nut 32, 34, 38mm



Bolts for Carious Clamps



Standard Pins



Long Pins



Wedges



Alignment Bracket

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Couplers



Swivel Coupler Forged



Fix Coupler Forged



Swivel Coupler
Sheet Metal



Fix Coupler
Sheet Metal



Putlog Coupler with
Forged Cap



Board Retaining Coupler
with Forged Cap



Sleeve Coupler



Girder Coupler
(To be used in Paris)



Toe Board Clamp



Joint Pin

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SCAFFOLDING & FITTINGS



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