



YOUR FORMWORK SPECIALIST



**SS Aluminium Formwork Pvt. Ltd.**

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A Partnership Firm Registered Under Indian Partnership Act, 1932



## INTRODUCTION

Welcome to our business, a trusted provider of Aluminium formwork solutions for construction projects. We specialize in delivering high-quality formwork services to enable the smooth and efficient execution of concrete structures. It is an essential component of any concrete project, as it provides the backbone for the final product. With our expertise and dedication to excellence, we aim to support our clients in achieving their project goals while maintaining the utmost safety and reliability.



## OUR MISSION AND VISSION

### What we stand for: Our Mission

We make construction more efficient, faster and safer. Providing the best service to our customers is what drives us every day.

### What we aspire to: Our Vision

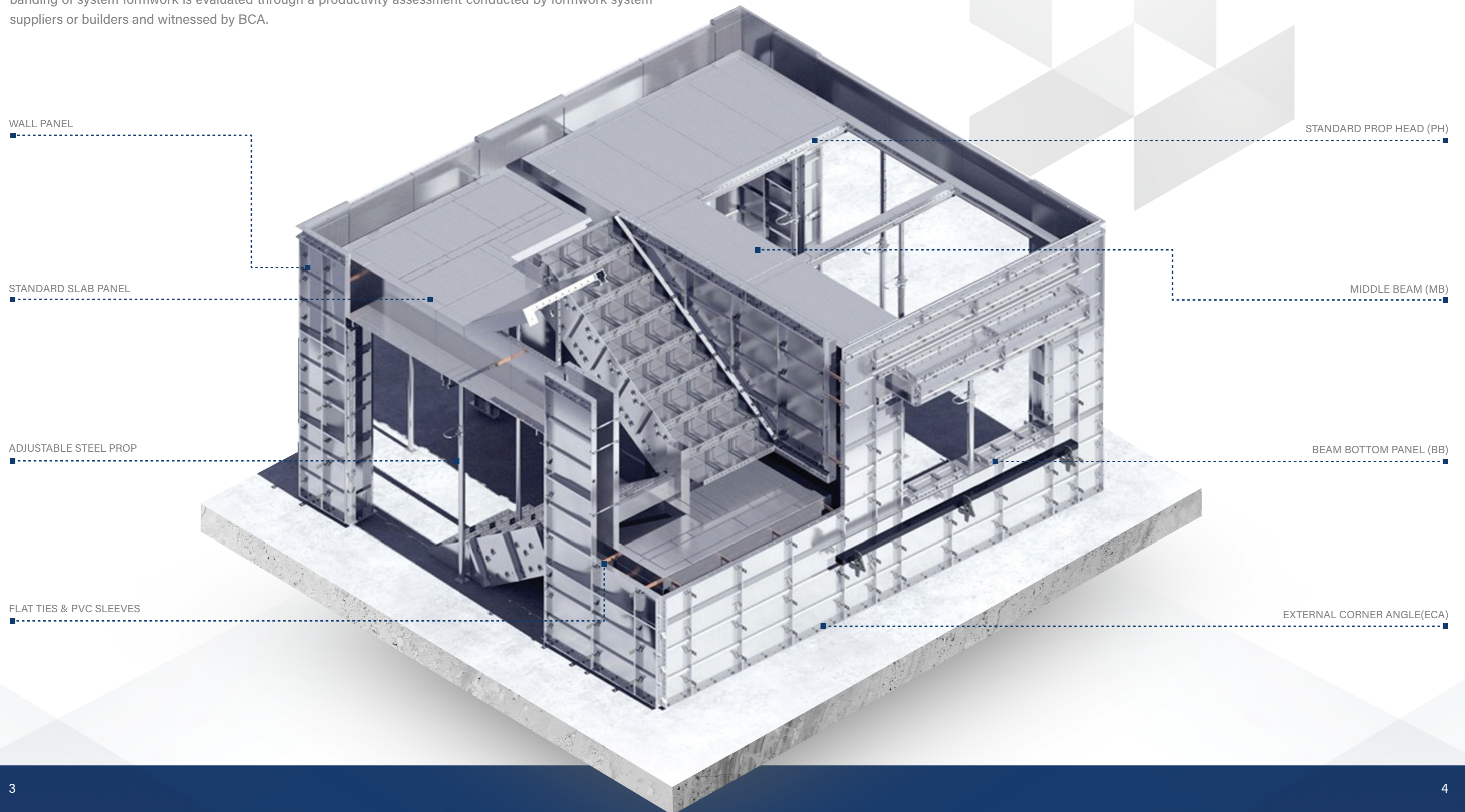
"To be a global leader in innovative formwork solutions, recognized for our commitment to excellence, sustainable practices, and transformative contributions to the construction industry."





SS Aluminium formwork Leadership is having experience of band 2 with a total of 14 points in constructability under Buildable Design Appraisal System (BDAS) assessment which is conducted by Building and Construction Authority (BCA) in Singapore. This signifies the highest banding awarded for vertical and horizontal integrated small panelled.

Buildable Design Appraisal System (BDAS) developed as a means to measure the potential impact of a building design on the usage of labour. There are 5 bands assigned to both vertical formwork and horizontal formwork. Each band is allocated with different points to reflect the relative efficiencies of various system formwork. This banding of system formwork is evaluated through a productivity assessment conducted by formwork system suppliers or builders and witnessed by BCA.







## TECHNICAL SUPPORT

Our Engineering Department is manned by a highly qualified and well-trained team of engineers who can provide any technical advice or support you need.

We are one of the Indian Aluminium formwork companies who is using ALUMINIUM FORMWORK SOFTWARE that helps to design engineering shell drawing, setting drawing and production drawing to eliminate holes matching issue in standard as well as Non-standard panels and provide desired shape and size of Aluminium formwork to the client.

Our engineers provide a complete range of services:

### ENGINEERING DESIGN

SS can undertake site surveys and advise customers on the most appropriate solutions to meet project requirements. Our engineering team scope and advise on all necessary details, prepare shell and shop drawing for client's understanding. Manufacturing drawing will then be prepared for fabrication and layouts plans for on-site installation.



### PRODUCTION

SS products are carefully inspected at all stages of manufacturing to ensure that it meets our high quality standards. Our production teams are able to deliver and meet your project requirements.

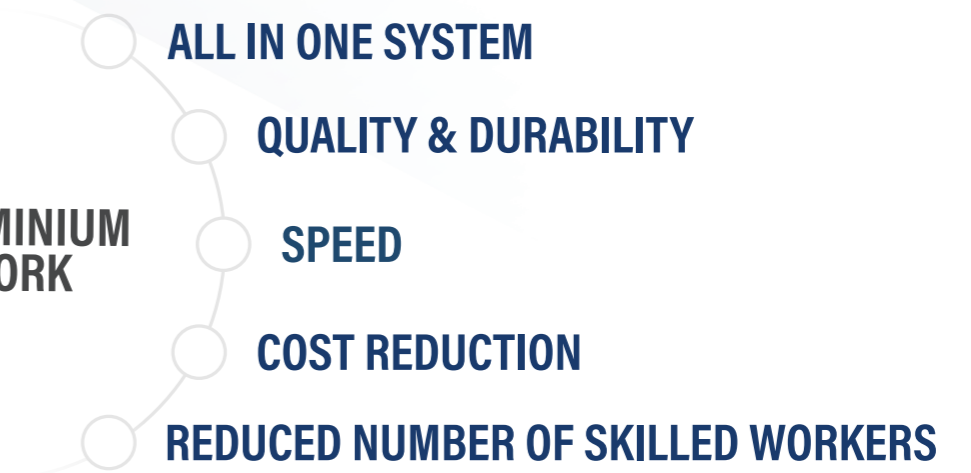
### TRAINING PROGRAMME

On site team training is the key to meet your construction schedules. Our technical team provides a complete set of training from reading panel drawing to assembly of the system.



### ON SITE SUPERVISION

Before the shipment arrives, our skilled supervisor goes to the construction site to make preparation for the aluminium formwork system. Our supervisors are always available to assist and guide during the process of initial set up.



### SPEED

Due to its monolithic system, construction speed increases and it takes around 8 to 10 days to construct a single floor. With same number of workers, contractor will expect the output to be double or triple when converts from conventional formwork system to aluminium formwork system.

### COST REDUCTION

Due to its easiness of assembly, skilled workers are not required and monolithic concreting results in crack free structure. As such, extra repairing costs are saved and initial cost is further reduced with high repetitive usage.

### QUALITY & DURABILITY

Having Aluminium alloy (A6061-T6) as the material yield its repetitive use up to 200 times. Moreover, due to the smooth surfaces and dimensional accuracy in the panels, plastering and remedial works are not required after concrete casting.

### REDUCED NUMBER OF SKILLED WORKERS

The assembly of aluminium formwork system is simple and convenient. It can be assembled manually without any machines assistance. Long training hours are not required for non skilled construction workers. A simple half day training is sufficient for the non skilled construction workers to understand the system.

### ALL IN ONE SYSTEM

Aluminium Formwork system provides wide range of applications, from wall formwork, horizontal floor slab, columns, beams to stairs. It also has high recycling value that is friendly and safe to the environment.





## PROPERTIES

### SS ALUMINIUM FORMWORK SYSTEM

The most important aspect of a successful structural construction is the formwork system. SS will always offer you the most trustworthy, secure, efficient and cutting edge of formwork system technology available in the market.

Material	Specification	
Aluminium Alloy (A6061 - T6)	Special Gravity	2.7
	Allowable Bending Stress	1250 kg/cm <sup>2</sup>
	Young's Modulus	7X10 <sup>5</sup> kg/cm <sup>2</sup>
Composition	Inner/outer wall panel and Corner panel	
	Slab panel with support	
	Inner/Outer slab corner with beam panel	
Alloy Temper	Temper T6	
Material Type	Complete Extrusion	
Standard Panel Width	75mm to 600mm	
Side Rail width	65 mm	
Panel Height	Standard panel height - 2400mm and single Height panel	
	Slab Panel- 600mm x 1200mm maximum size	
Welding	Mig Welding 1.2mm dis wire (Wire Grade - 5356)	
Weight of Aluminium Panels	21 to 23 Kg/sq.m (Considering all components)	
Thickness of Panel	3.4 to 4mm thick for contact surface area & 8mm for side rail	
Standard Props	Adjustable Steel Props	

### COMPARISON

Characteristics	Tunnel Formwork	Table Formwork	Traditional Formwork	SS Aluminium Formwork
No skilled labour required				●
Suitable for one or two storey building	●	●	●	●
Suitable for High rise building			●	●
No cranes or other heavy equipments required				●
Able to pour all walls, beams, columns, slabs together along with staircase in one pour				●
Able to form all concrete elements			●	●
Strike floor slab formwork without moving props and prop heads				●
Conforms to architect design with no need of modification to suit the design accurately or perfectly			●	●
Self correction feature providing unmatched forming accuracy				●
Environmental friendly - no huge debris, no messy disposals				●

## 8 DAYS CONSTRUCTION CYCLE







# MANUFACTURING PROCESS



## OUR WORKING PROCESS

01



Warehousing of raw materials

02



Cutting

03



Hole processing

04



Notching

05



Welding

06



Labelling of panels

07



Grinding

08



Brushing

09



Leveling & adjustment of panels

10



Coating

11



Packing

12



Loading into containers





## CONSTRUCTION SEQUENCE

## CONSTRUCTION SEQUENCE



01



### CONCRETE LEVELING SURVEY

Leveling must be checked before installation of formwork. This is to ensure accurate level of concrete.

02



### STRUCTURAL LINE/OFFSET LINE

After verifying the leveling of slab, structural line & offset line must be indicated as per structural drawing.

03



### VERTICAL REBAR (ME & PLUMBING)

The support work such as Vertical Rebar, Mechanical & Electrical (ME) and Plumbing are installed immediately once the set up is completed.

04



### WALL & BEAM PANELS INSTALLATION

All setting must be started with the positioning of I/C and Wall after applying sufficient quantity of form oil.

05



### STAIRCASE & LIFT CORE

Staircase and lift core materials should be segregated and installed as per staircase shop drawing.

06



### SLAB PANEL

Slab beams are placed to support the slab formwork. Components are held together by pinning join bars through two adjoining beams with a slab prop located between using the long pin.

07



### BOTTOM & TOP (ME & PLUMBING)

Once deck formwork is set up, surveyor will conduct a level checking before fixing in the rebar, ME and plumbing.

08



### KICKER SETTING

Kickers are required where there is a continuous vertical wall, e.g. lift shaft, external face of building etc., It acts like a connecting component for the vertical wall formwork.

09



### SOLDIER INSTALLATION

One set of Soldier will be provided for kicker alignment. The length of soldier pipe is 900 mm.

10



### FORMWORK LEVEL CHECKING

The vertical formwork should be fixed in position and the external corner should be checked. This will determine if further action is required to control the deviation.

11



### CONCRETE POURING

Concrete pouring is distributed evenly throughout the wall section before commencing to cast the slab level areas.

12



### STRIPPING WALL/COLUMN PANELS

The first panel will be the most difficult to remove out from wall. Normally, the person will insert the spigot on the panel-puller into the bottom hole of the side rail of the panel for easy removal.

13



### STRIPPING BEAM PANELS

Remove all pins and wedges from the section of beam side.

14



### STRIPPING SLAB PANELS

After removing all pins and wedges from the panel, all slab panel, EB and MB panels can easily be removed

15



### FLAT TIES & PVC SLEEVES

Flat ties are used to ensure the wall/ column thickness and the sleeves are placed to protect the flat ties. Both are removed by using special tools.

16



### KICKER PANELS

The wall panels are removed by disconnecting the lower kicker from the adjacent formwork and prepared for reuse.

17



### CLEANING PANELS

All components should be cleaned with scrapers as soon as they are struck. Cleaning process will be more tedious if it is delayed.

18



### TRANSFER PANELS

Transfer all panels through slab cut-out provided in larger area of unit. It is closed by casting in a concrete filler.





## FORMWORK COMPONENTS

## SLAB COMPONENTS



**STANDARD WALL PANEL** forms the face of the wall and stiffeners of wall panel are designed such a way that a worker can easily lift and handle. There is no mid-welding in a standard wall panel width.

Item Description	Dimension
Standard Wall Panel	600mm x 2400mm (H)*
	450mm x 2400mm (H)*
	200mm x 2400mm (H)*
	175mm x 2400mm (H)*

\*Height (H)\* of the Wall Panel depends on design requirement. It will either be the Standard Wall Panel height or a Single Wall Panel Height.

### STANDARD WALL IN-CORNER PANEL

Connects two panels and covers a scalloped edge space, where the two panels meet.

Item Description	Dimension
Standard Wall In-Corner Panel	(100+100) mm x 2450mm
	(100+125) mm x 2450mm
	(100+150) mm x 2450mm
	(100+175) mm x 2450mm

\*Size (LXB)\* of the In-Corner Panel depends on design requirement.

**STANDARD SLAB PANEL** sustain the weight of concrete while pouring and provide a horizontal surface for casting to form slab. it rests in between two adjacent slab beams.

Item Description	Dimension
Standard Slab Panel	600mm x 1200mm
	450mm x 1200mm
	200mm x 1200mm
	175mm x 1200mm

**SLAB LENGTH** is used to sustain the weight of concrete while pouring and casting jobs to form slab. It is used to connect wall and slab panel

Item Description	Dimension
Slab Length	(125mm + 100mm) x (L)*
	(150mm + 150mm) x (L)*
	(125mm + 75mm) x (L)*

\*Length (L) of slab length depends on design requirement.



Size: 150 x 300

### PROP HEAD [PH]

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



Size: 150 x 900 | 150 x 1050

### MIDDLE BEAM [MB]

Used to joint the prop heads, the middle beam supports the slab panels



### JOINT BAR

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



Dependent upon each structure

### SLAB IN CORNER

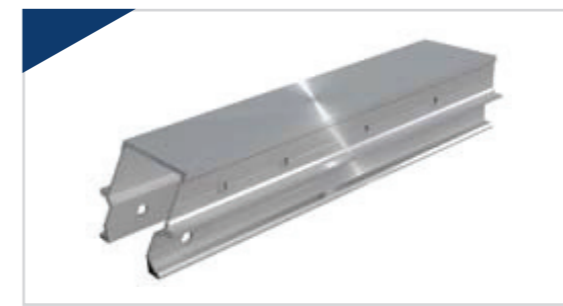
Connection between Wall panel & Slab panel (inside)



Dependent upon each structure

### SLAB OUT CORNER

Connection between Wall panel & Slab panel (outside)



Size: 150 x 600 | 150 x 900 | 150 x 1050

### END BEAM [EB]

Used to joint the prop head and slab corner, the end beam supports the slab panels



Dependent upon each structure

### SPECIAL PROP HEAD

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



## FORMWORK COMPONENTS

## FORMWORK COMPONENTS



### WEDGE & ROUND PIN

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



### LONG PIN

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.



### PIPE SUPPORT

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

Type	Length
P-1	1,800mm - 3,200mm
P-2	2,000mm - 3,400mm
P-3	2,400mm - 3,800mm
P-4	2,600mm - 4,000mm



### WALL PLATFORM

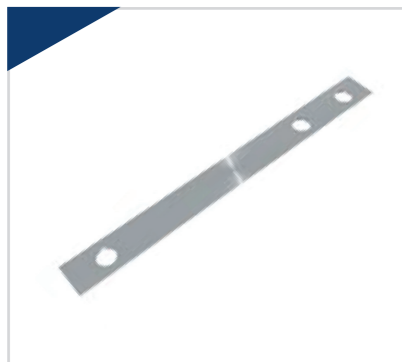
As a substitute of a scaffolding system, these wall platform, slab platform and elevator platform will be fixed on the concrete. [Wall/Slab/Elevator] and used as working platform for workers.



### SLAB PLATFORM



### ELEVATOR PLATFORM



### 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

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.



### 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 fix the Bracket on the concrete surface during its installation.





## PROJECTS REFERENCE



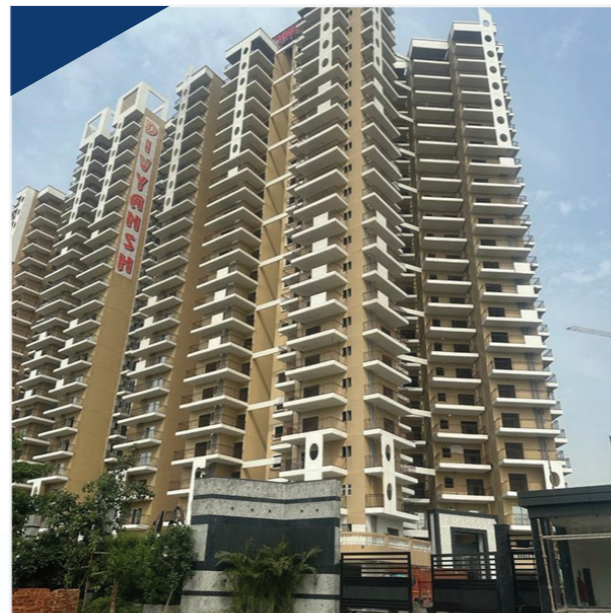
Client Name: County Group  
Project Name: Coco County



Client Name: SKA Group  
Project Name: Skardi Green



Client Name: NBCC  
Project Name: YFC (Tower-E)



Client Name: Divyansh  
Project Name: Onyx

## PROJECTS REFERENCE



Client Name: SKA Group  
Project Name: SKA Divya



Site Picture



Mock up at Factory