



**RNP**  
SCAFFOLDING &  
FORMWORK

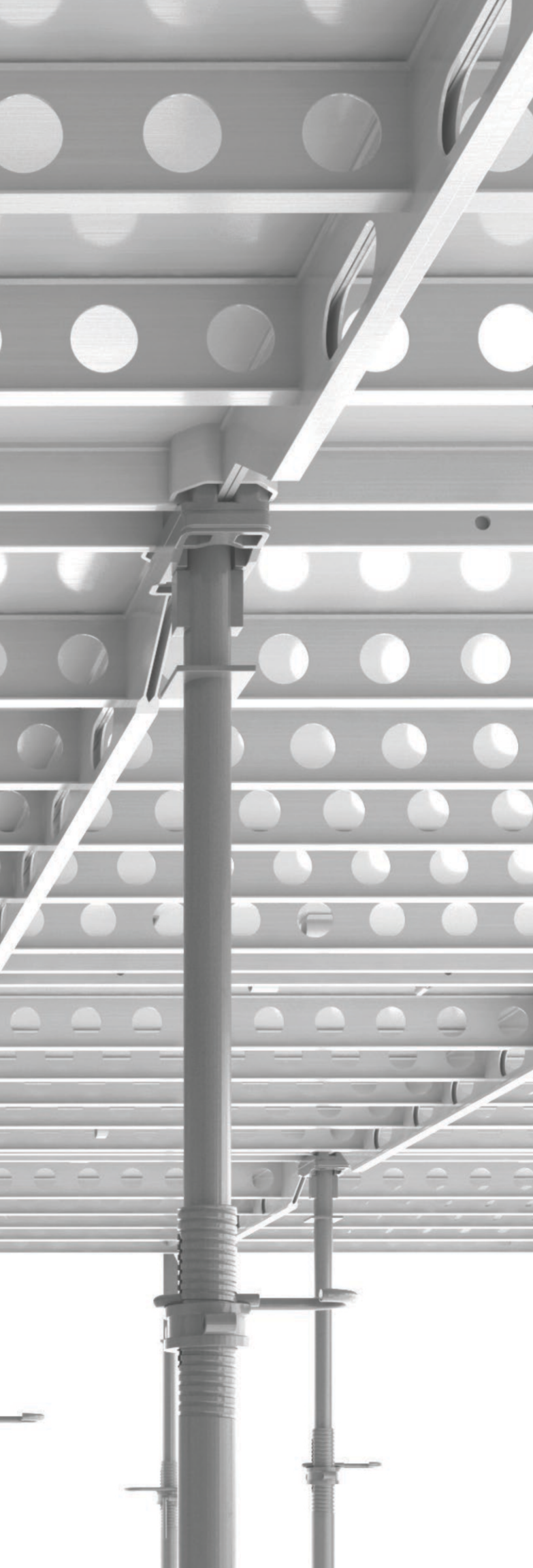
**LIGHT,  
STRONG,  
SAFE & FAST**



Established in the year 1980 our group has legacy of over 40 years. With our clients and partners, we have one goal; to leave a positive, lasting impact on people and our planet. Our commitment towards quality, expectations has enabled us to achieve zero turnaround and helped us towards continuous innovation. Our vision has been to create a platform with epitome of services that puts customer satisfaction as the core of the business. With over four decades of experience in service industry we are now foraying to develop best-in-class warehousing and logistics infrastructure. With dedicated manpower of over 200 nos. the group has well trained qualified team of engineers to deliver unmatched services.

The scaffolding division of RNP group pioneers itself as one of the largest scaffolding service providers in India. It has its manufacturing and stockyard facilities in Mumbai, Pune, Hyderabad and Vishakhapatnam. With Emphasis on safety and quality this division has been providing services to major petrochemical, infrastructure, pharma and defense sector for the last 44 years. The Aluminium Formwork division has provided best in class services for complex design in the infrastructure sector. The Infracon Division of RNP group has been phenomenal in producing Ready Mix Concrete and allied concrete products with supply to many government and semi government organisations.



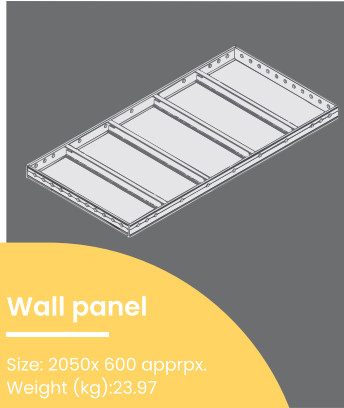


# ALUMINIUM FORMWORK FOR A BETTER WORLD

Aluminium formwork system is highly suited to load bearing wall construction whereas traditional formwork consisting of plywood and Timber is not suitable to the high pressure of fresh concrete on the wall. Use of this formwork in load bearing design gives an average of 15% cost saving in the structure of the building and increased usable floor space of 8% over RCC design of the assembly. Only unskilled labours are required with minimal supervision. The aluminium formwork system is removable and can be reused hundreds of times with little maintenance. Moreover, the requirement of steel is also reduced in this technology as aluminium has a higher scrap value.

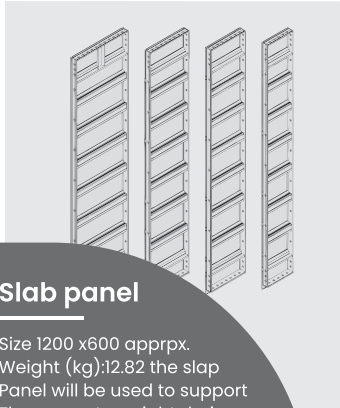
This system is based on a handled light aluminium formwork system. It is capable of forming the concrete for both, load bearing wall design and column beam design. Unlike other systems it is equally suited to both high rise and low rise buildings. In case of load bearing wall design, the system forms all of the concrete in a building, including walls, floor slabs, columns, beams, stairs, window hoods and balconies. Specifically designed to allow the rapid construction of multiple unit projects at optimum productivity, the aluminium formwork can be used for a broad range of applications from straight forward panel to more complicated structures involving bay windows, stairs and A/C hoods. The degree of Pre engineering and inherent simplicity of the aluminium formwork enables unskilled labour to be used. Every component is light enough to be handled by one operative, minimising the need for a heavy lifting equipment.

# Aluminium Formwork Components



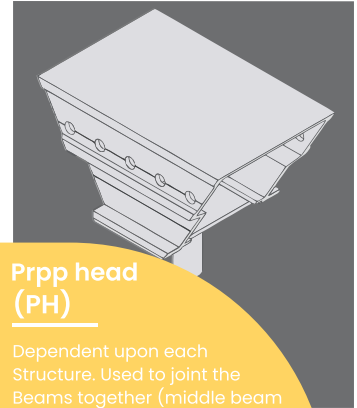
## Wall panel

Size: 2050x 600 apprx.  
Weight (kg):23.97



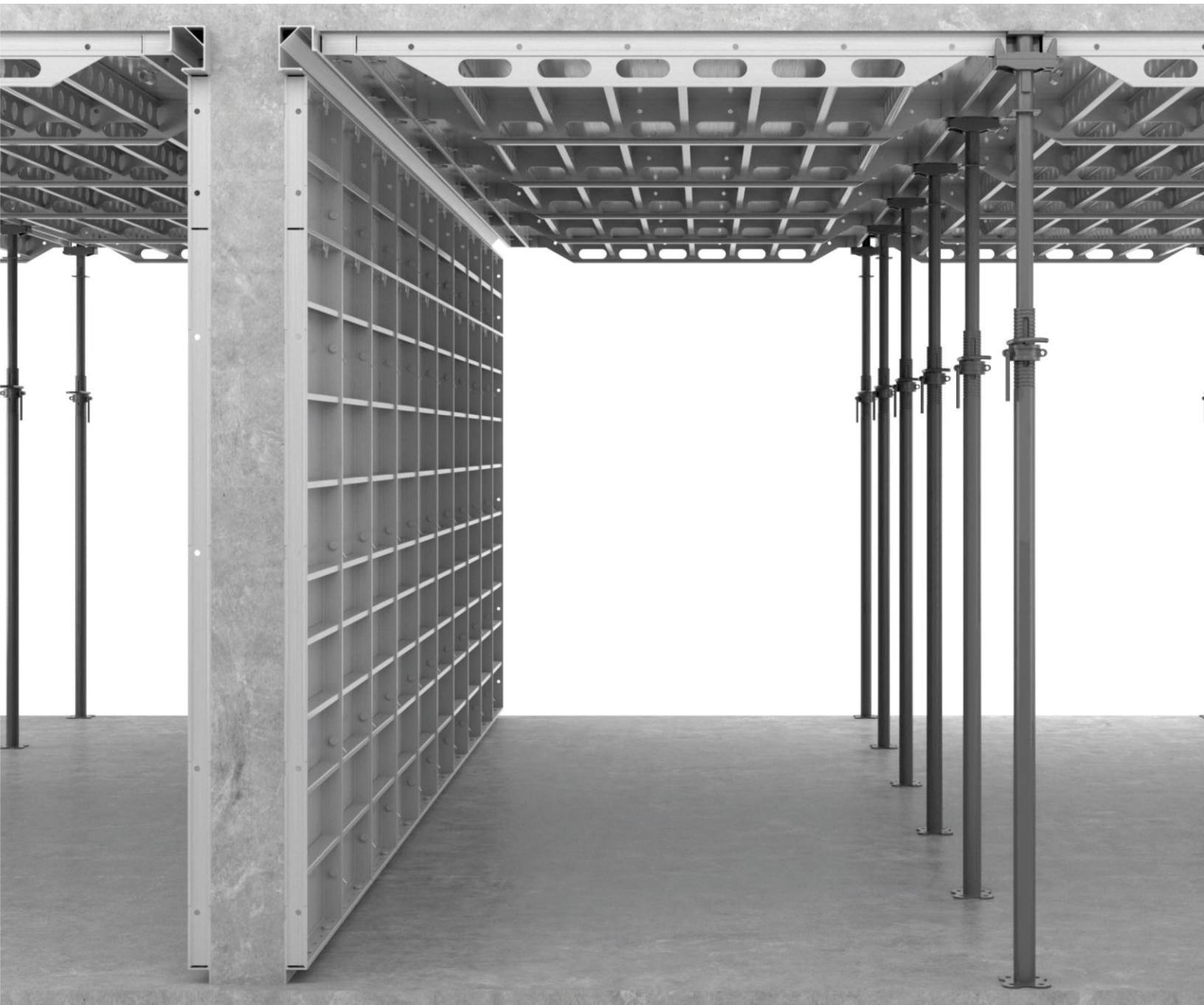
## Slab panel

Size 1200 x600 apprx.  
Weight (kg):12.82 the slab  
Panel will be used to support  
The concrete weight during  
Concrete pouring and Casting



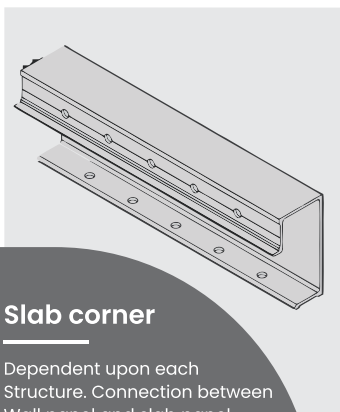
## Prpp head (PH)

Dependent upon each  
Structure. Used to joint the  
Beams together (middle beam  
And/ or end beam) the pipe  
Support will be placed  
Under the prop Head



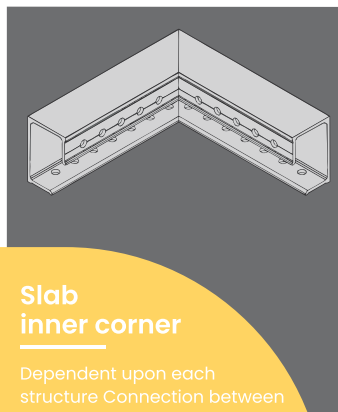


The simplicity of aluminium formwork and the repetitive nature of the assembly process make it possible to accurately programme construction sequences and thus cycle times well in advance. In addition, this enables the unskilled labour to work with the formwork, therefore reducing the burden on skills labour when this is in short supply. On leaving the factory, all panels are clearly labelled to ensure that they are easily identifiable on site and can be smoothly fitted together using the formwork modulation drawings.



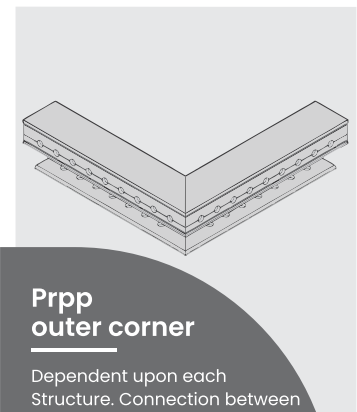
### Slab corner

Dependent upon each Structure. Connection between Wall panel and slab panel.



### Slab inner corner

Dependent upon each structure Connection between wall panel And slab panel (inside)



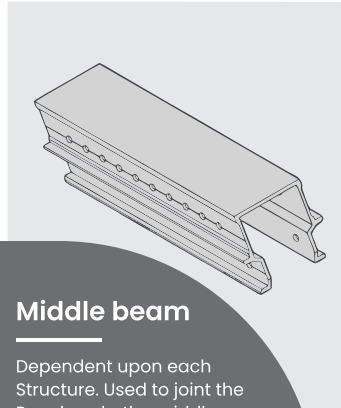
### Prpp outer corner

Dependent upon each Structure. Connection between Wall panel and slab Panel (outside)



### Beam bottom panel

Dependent upon each Structure. Connection between Wall panel and slab panel.



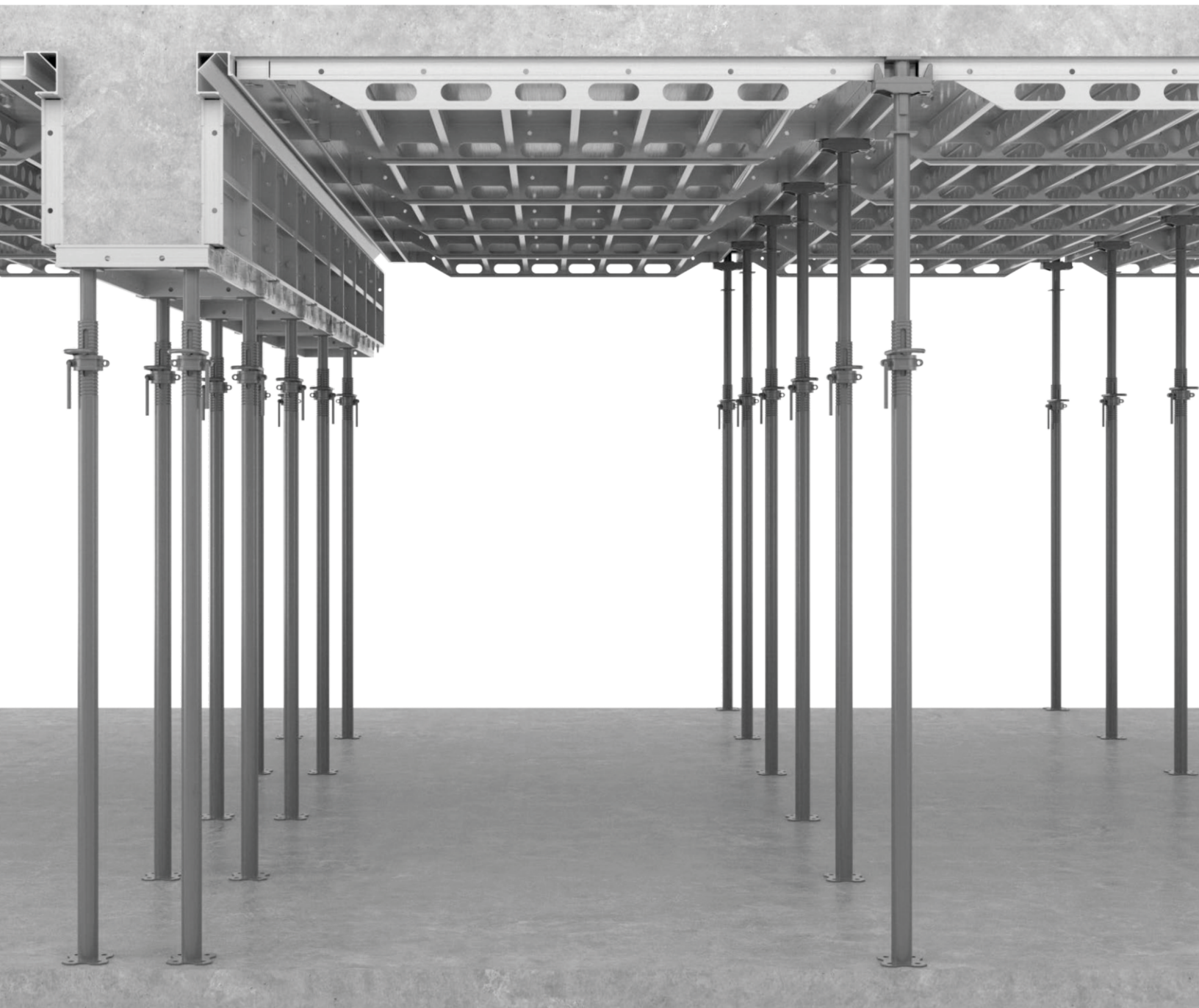
### Middle beam

Dependent upon each Structure. Used to joint the Prop heads, the middle Beam supports The slab panels



### End beam (EB)

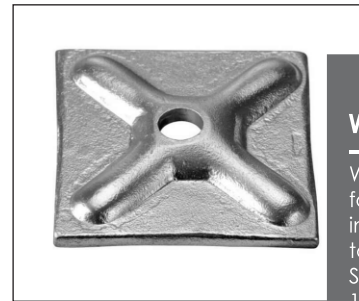
Dependent upon each Structure. Used to joint the Prop head and slab corner The end beam supports The slab panels





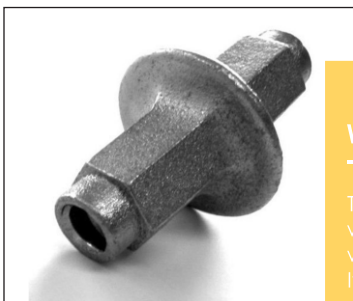
### Wing nut

Wing nut is used for fixing the washer plate to tie rod.  
Size :- '16 mm / 20 mm



### Washer plate

Washer plate is used in formwork system during installation to fix the Waller to formwork panel.  
Size :- 100 x 100 x 4 mm | 120x120x4mm



### Water barrier

Tie rod water barrier is widely used in formwork water retaining structures. It helps in prevention of water seepage.



### Wedge pin

Pin and wedge pin is used to join the wall or slab panels together.



### Long pin

Long pin and wedge pin is used to fixed the joint pin with prop head and beams.  
Size :- 16 x 80 mm / 16 x 100 mm / 16 x 120 mm | 16x132 mm



### HEX Nut

Pin and wedge pin is used to join the wall or slab panels together.



### Long pin

Long pin and wedge pin is used to fixed the joint pin with prop head and beams.  
Size :- 16 x 80 mm / 16 x 100 mm / 16 x 120 mm | 16x132 mm



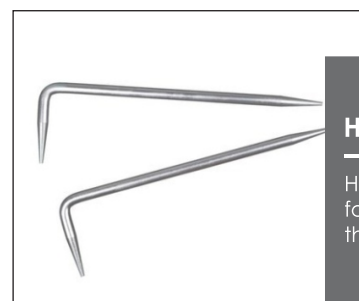
### PVC cone

Plastic cones are used in formwork when pouring the concrete wall in construction to avoid the leakage of water and concrete.



### Nut Bolt & Washer

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



### Hole bari

Hole bari is used for aligning the hole.

[www.rnpgroup.in](http://www.rnpgroup.in)



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