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GETO®
Formwork & Scaffolding Expert

Quick-deck System

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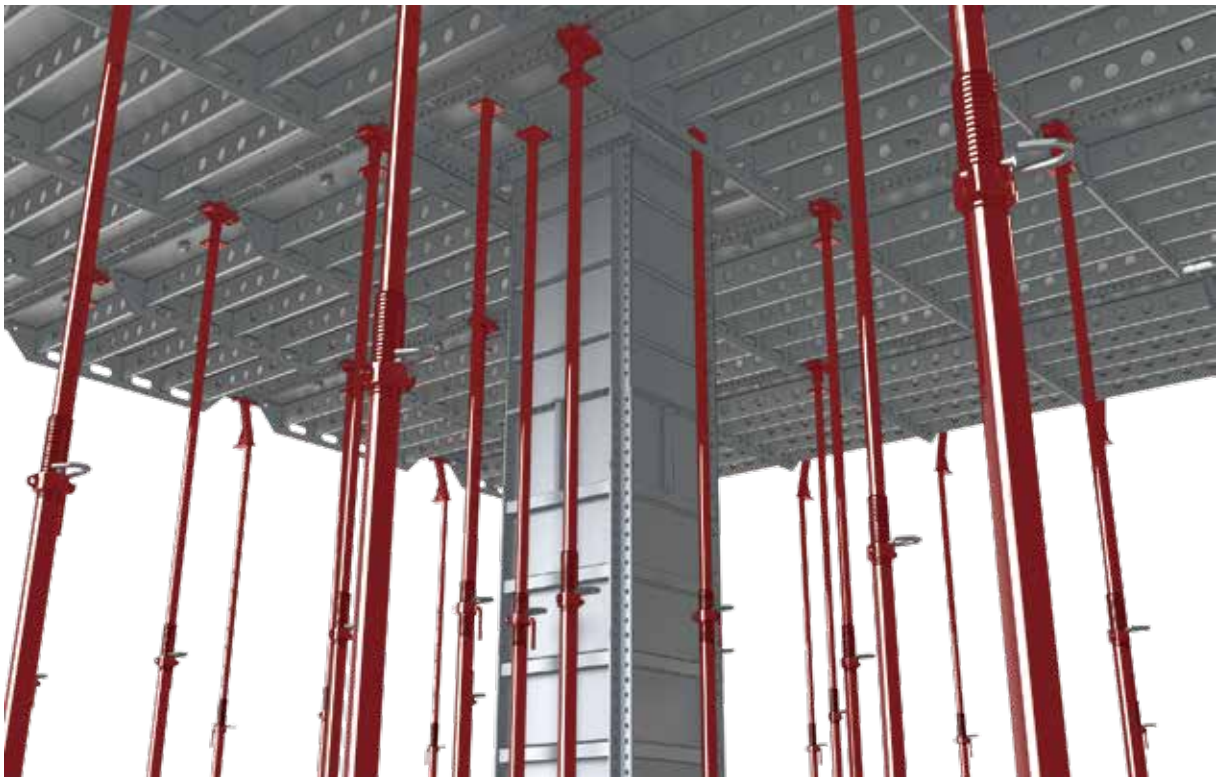
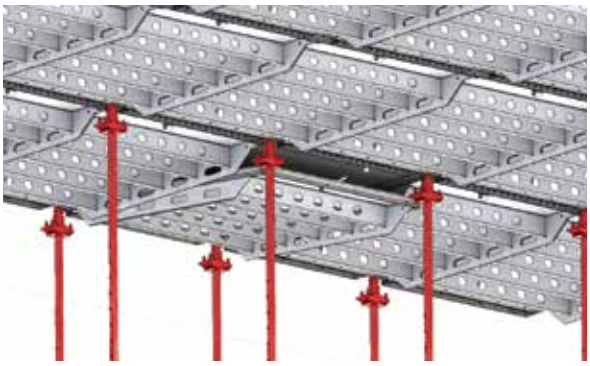
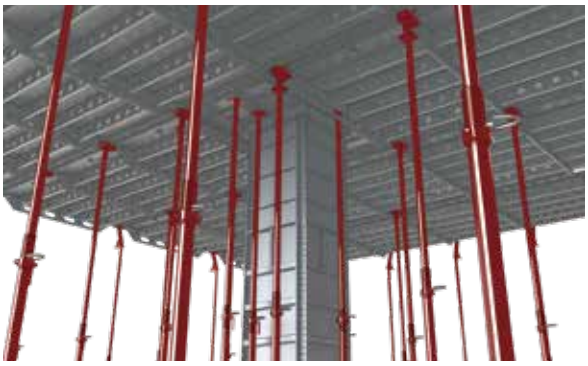
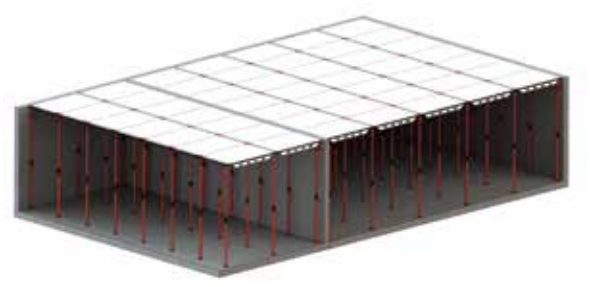
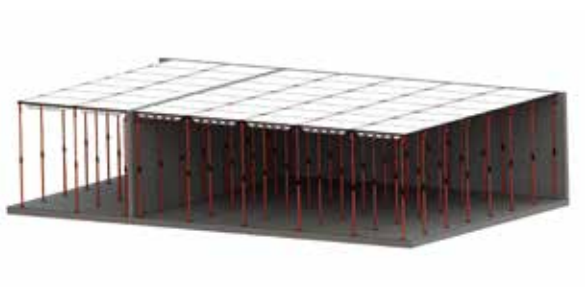
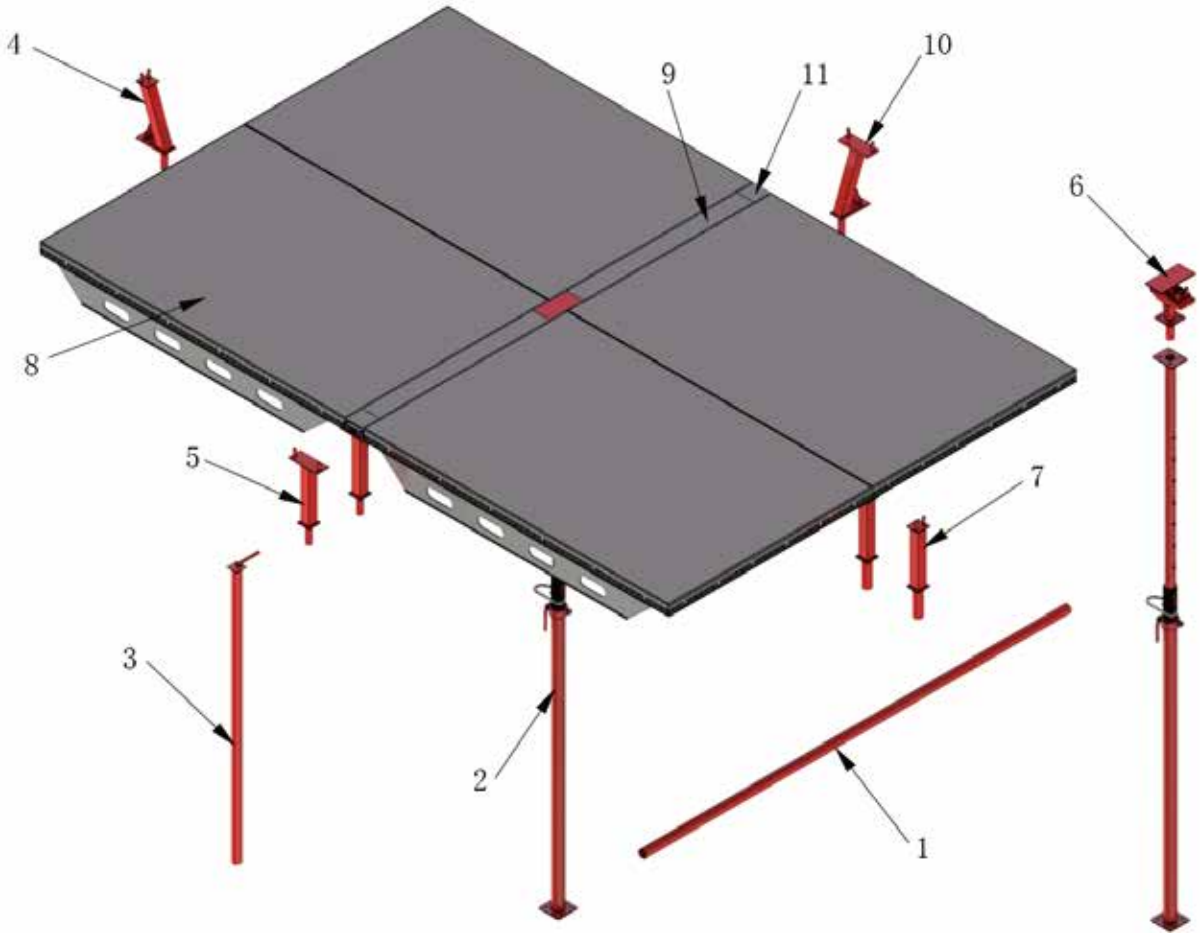
GETO Quick-deck System



Content

INTRODUCTION



(1). HORIZONTAL BRACE

(2). PROP

(3). DETACHABLE DEVICE

(4). WALL SIDE PROP HEAD 2

(5). EDGE PROP HEAD 1

(6). EARLY REMOVAL OF PROP HEAD

(7). EDGE PROP HEAD 2

(8). DECK PANEL

(9). FILLING KEEL 1

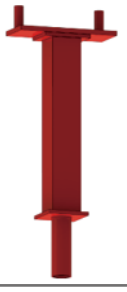
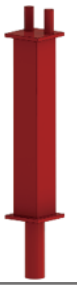
(10). WALL SIDE PROP HEAD1

(11). FILLING KEEL 2

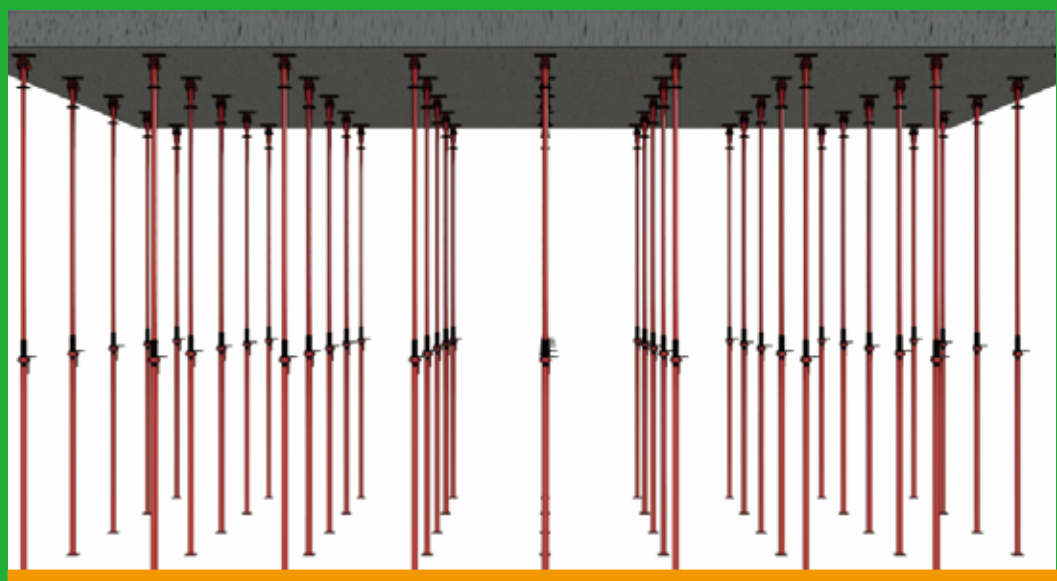
PANEL

Specification	Sketch Map	Weight	Material
1.2m×1.8m Standard roof formwork		35.74kg	6061-T6
0.1m×1m Filling keel 1		3.44kg	
0.1m×0.1m Plugging box		0.48kg	

SUPPORT SYSTEM

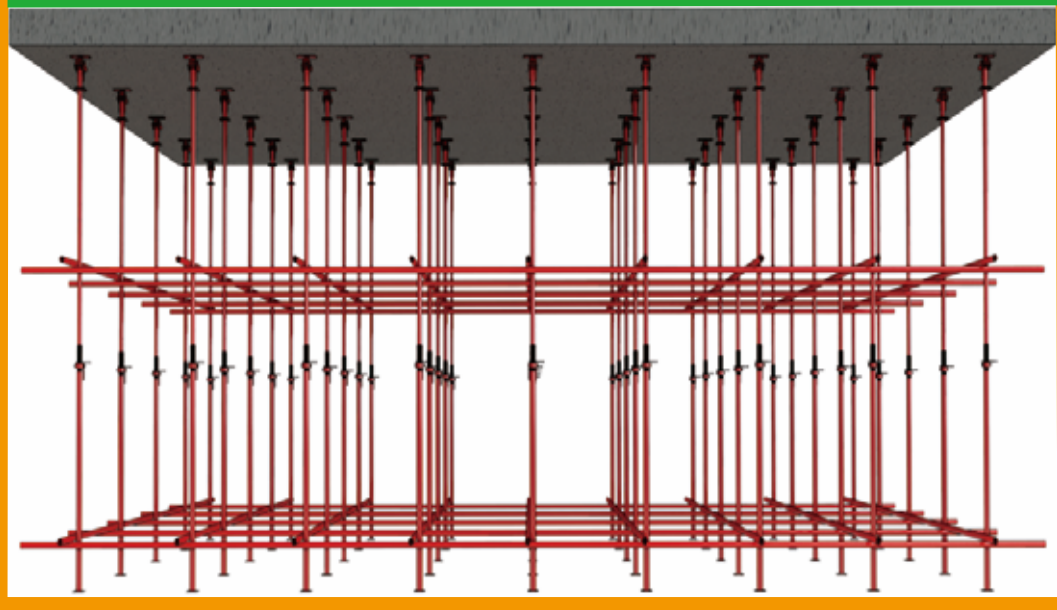
Specification	Early removal of support head	Formwork Edge Prop head 1	Formwork Edge Prop head 2	Wall side Prop head 1	Wall side Prop head 2
Sketch Map					
Usage requirements	It is main steel support which install between 2 nos of quick deck panels. The steel material grade is Q235 & Q355.	It is used to support the outer edge of the quick -deck system, and also to support the area around the columns and beams. The steel material grade is Q235.			

>>> PROPS



Steel support system
(without horizontal brace)

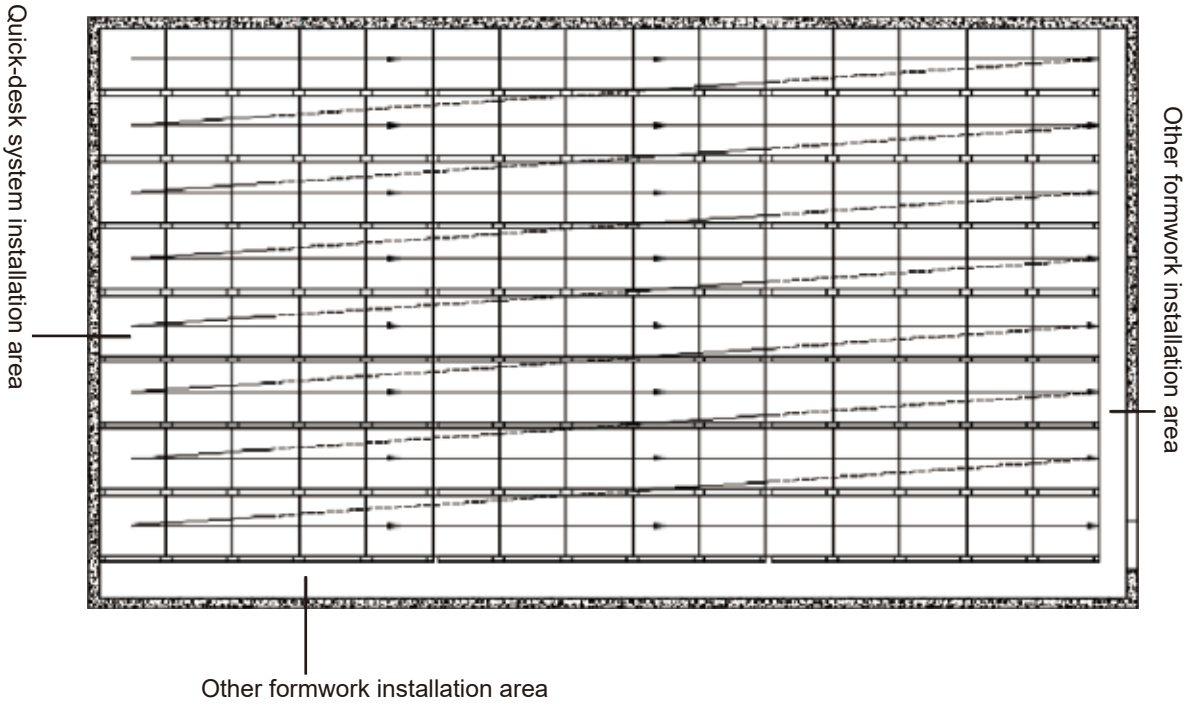
Steel support system
(when horizontal brace is required)



METHOD OF STATEMENT

1. Installation Sequence

According to the design & size of the slab structure, contractor can start to install the first panel from side edge until the quick deck panel is unable to fix the remaining area. The remaining areas is advised to use conventional formwork or traditional aluminium formwork system or aluminium-wood or aluminium-plastic combination system.



Step 1

Install the first row of supports and the first deck formwork

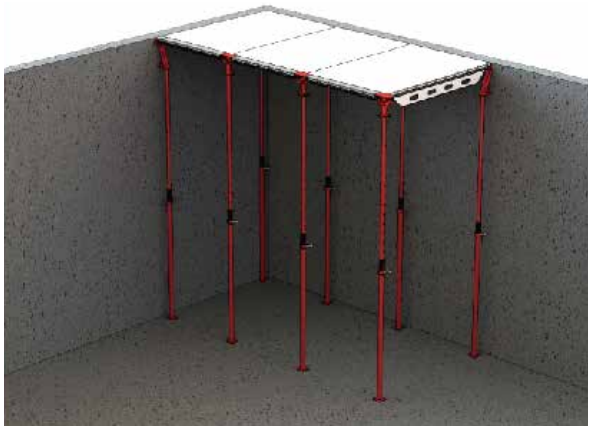
Connect 0.1m*1m filling keel 1 and 1.2m*1.8m standard formwork with pins & wedges in advance. Erecting the steel support according to the position & level of the drawing, then the quick deck formwork shall be installed with the prop head. Using a handling tool to lift the other quick deck panel & continuously erect the rest of steel support.

Step 2

Setting up the first row of deck panel

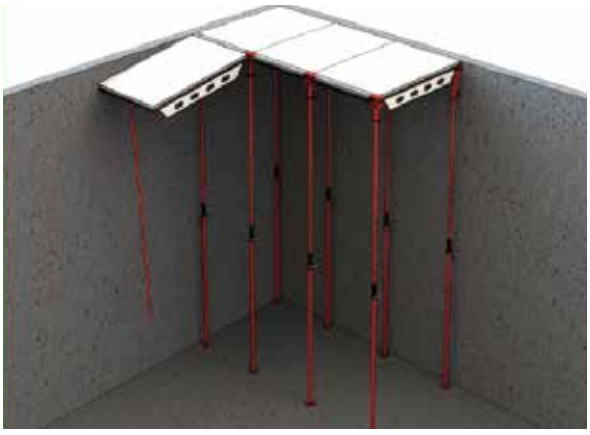
Repeat step 1 until the first row of fast deck panels is erected.

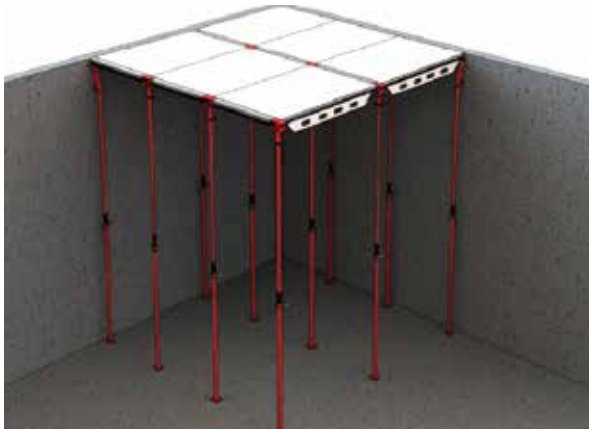
Install pins between the two formworks to ensure the stability of the deck panel, while tapping the support head.



Step 3

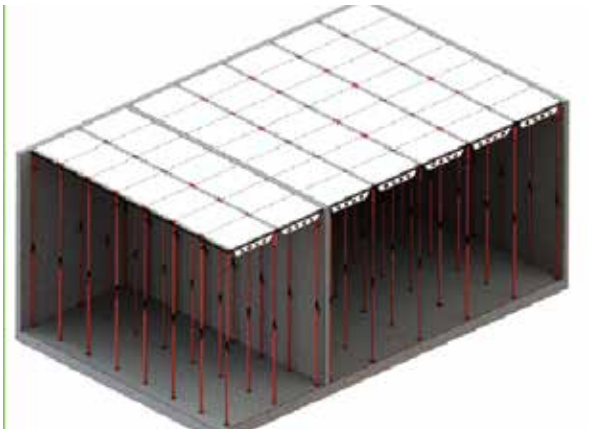
Repeat steps 1 and 2 until all standard panels have been installed, and use other combination method to install where the remaining area unable to fix with quick deck panel.





Step 4

Repeat steps 1, 2 and 3 until all areas are installed.

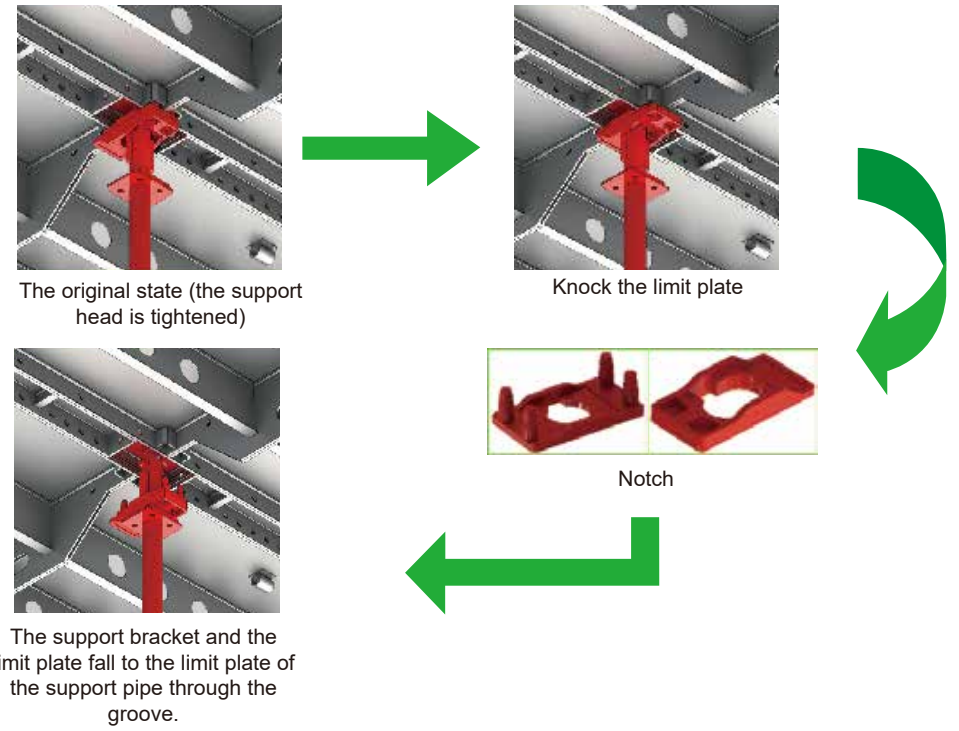


2. Disassembly sequence

Step 1

Release support brackets and limit plates

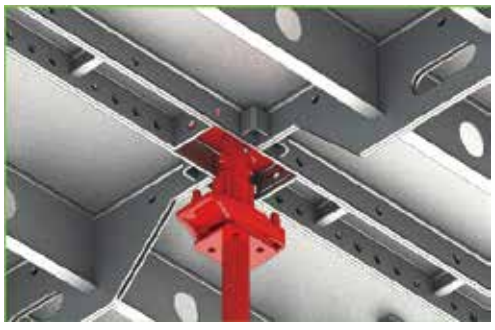
Hit the side of the limit plate with a hammer, and let the support bracket and the limit plate fall on the limit plate of the supporting inner tube.



Step 2

Rotate the Support Bracket and Limit plate

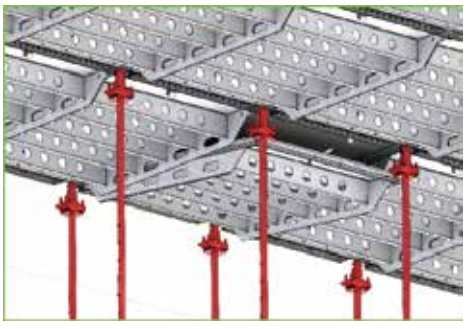
The support bracket and limit plate are rotated by 90 degrees, which makes the panel and keel of the quick-deck system easy to drop and disassemble.



Step 3

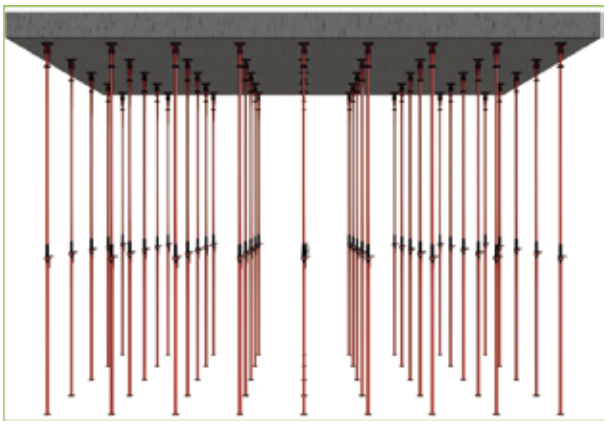
Remove Deck formwork

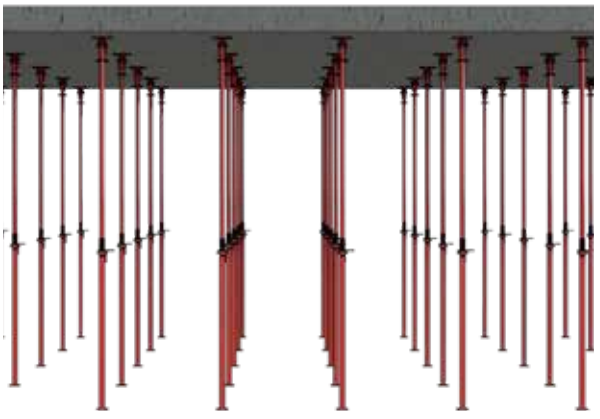
After the prop head is in place, removed the formwork slowly.



Step 4

Repeat steps 1, 2 and 3. When all the panels are removed, the prop and prop head remain in place for reverse support, so as to achieve the early disassembly performance of the quick-deck formwork system.





APPLICATIONS IN SPECIAL PARTS

1. Application in conjunction with aluminium formwork system

The cast-in-situ wall & column formwork adopts the aluminium formwork system, and connects with the deck panel through the existing SN, thus realizing the connection between the roof and the wall & column formwork.

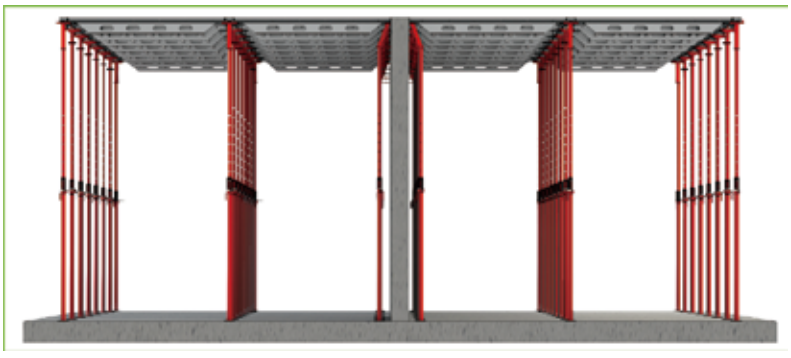
The existing deck system is used for small area deck panel. The combination of the existing deck system and the quick-deck system is realized by special consideration of the section form of the fast deck formwork and preset the formwork connecting hole on the quick-deck formwork sealing edge.

2.Quick-deck system with timber formwork

Since the local shape of the service object of the quick-deck system may change greatly, the combination of the quick-deck formwork system and timber formwork system can improve the utilization rate of the project standard plate, reduce the additional cost caused by the special-shaped plate, provide convenience for the construction party and reduce the cost.

3.Application of PC Components

Through the application of special edge support head, the quick-deck formwork system can achieve good combination with prefabricated components and improve the scope of use of the formwork.



TRANSPORTATION, STACKING AND STORAGE

1. Transport to site

Place the formwork on the wooden pallet in turn, wrap the wrapping film and lock the packing belt.

2. On-site use of trolleys for transshipment

Each trolley can transport four deck formwork at the same time.

Each trolley can be propelled by only one person.

Trolley

Illustration of stacking formwork on trolley

SAMPLE TEST

1. Implementation Scheme of Props Inner Pipe Test

（1）Preloading Load Value Calculation

In order to ensure the safety of the construction of the props, equal amount of sand is pre-added to the whole section of the test formwork and support to demonstrate whether the strength and stability of the props meet the requirements.

（2）Layout of measuring points

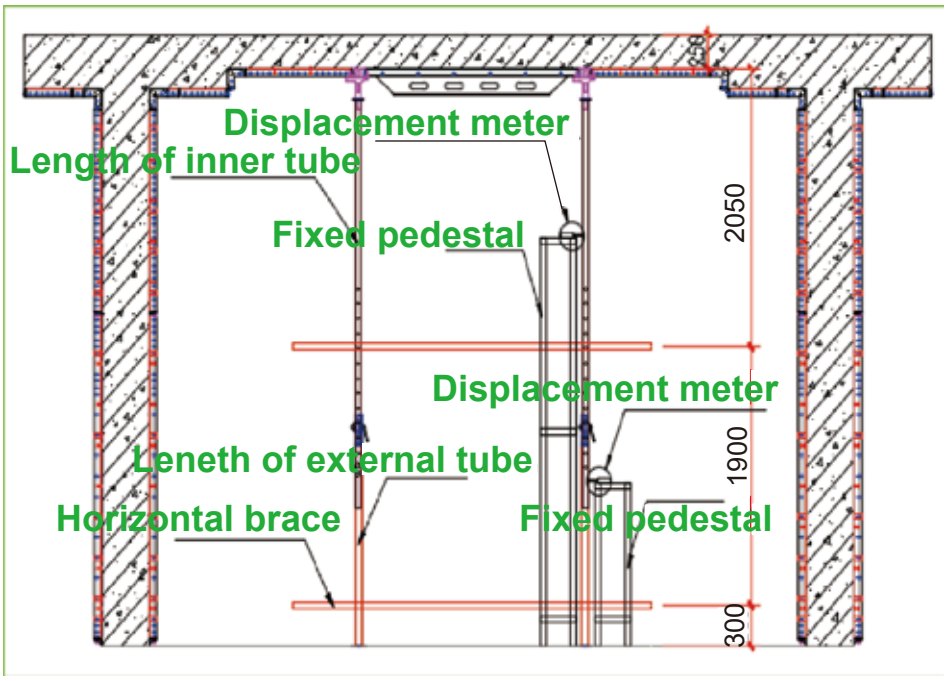
Displacement sensors are arranged at the appropriate positions of column cap bottom props, plate bottom props and plate bottom respectively (as shown in the figure below), and real-time monitoring of displacement changes is carried out.

（3）Installation of displacement sensor

According to the predicted deformation position of the props, displacement sensors are arranged in the middle part of the free end of the steel props at the measuring point, and displacement sensors are selectively arranged in the middle part of the horizontal tie rod of the steel support at some measuring points. A temporary fixed platform is built with steel pipe at the support position of the measuring point to fix the displacement sensor, as shown in the right figure.

Spring displacement sensor

Combination of Displacement Sensor and Instrument



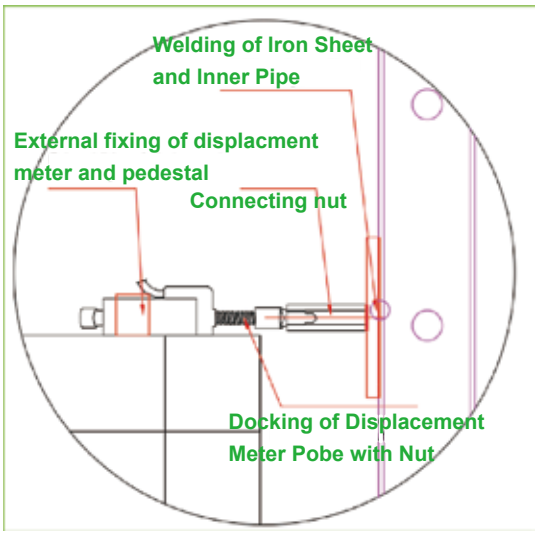


Diagram of Displacement Meter Installation

（4）Load

According to the total load weight, the first load is 75% of the preload load value, the second load is 100% of the preload load value, and the third load is 120% of the preload load value. The changes of control points are observed and the relevant data are recorded.

（5）Monitor

1)The monitoring of stent preload should include the following contents: displacement value of monitoring point before loading; 2) displacement value of monitoring point after loading at each stage; 3) displacement value of monitoring point after unloading for 6 hours.

（6） Uninstall

When unloading, it should be unloaded from both sides to the middle layer. The unloading load grading is the same as that when loading. Records should be made and the changes of monitoring points should be observed again after unloading.