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QUICK-DECK SYSTEM

快速式顶板系统





Company Profile

公司介绍

GETO Group is mainly engaged in Green new building formwork and scaffolding (aluminium formwork, steel formwork, steel-framed timber formwork, climbing systems, fair-faced concrete formwork, and infrastructure formwork and scaffolding products), Prefabricated buildings (steel structures and PC), Modular housing (steel structures and PC), and Construction & decoration materials (tiles, doors & windows, lighting, custom furniture, etc.)

GETO also provides New energy including the investment, EPC construction, and operation of commercial and industrial "Photovoltaics, Storage, and Charging" projects, while providing the "Green Energy Future Living" one-stop residential energy solution.

In 2021, GETO completed its IPO and was listed on the ChiNext board of the Shenzhen Stock Exchange in China (Stock Code: SZ 300986). We have established 12 production bases globally and registered the "GETO®" international trademarks in 32 countries and regions, with products and services reaching worldwide markets.

志特集团主营绿色新型建筑模架（铝模、钢模、钢框木模、爬升式模架、清水混凝土模架及公基建专用模架）、装配式建筑（钢结构与PC）、模块化房屋（钢结构与PC），以及各类结构和装修建筑材料（瓷砖、门窗、灯饰、定制家具等）。

志特还提供相关新能源，包括工商业“光、储、充”项目投资、EPC建设、运维，“绿能未来居”一站式家庭能源解决方案。

“志特新材”于2021年在A股创业板IPO上市（股票代码：SZ 300986），目前已在全球设立12大生产基地，在32个国家和地区注册了“GETO®”国际商标，产品和服务遍及全球。

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Product Introduction

产品介绍

GETO Quick-Deck System is catered to construct beam-less and large-area deck structures, such as car porch and podium. Its quick installation and dismantling characteristics are realized by adjusting the height of the adjustable props below its deck formwork. It can realize the fastening installation procedure by manually moving up the adjustable props head to hold up the formwork parts, while dismantling the formwork only requires moving down the adjustable props.

快速式顶板系统适用于建设车库或裙楼等大面积的无梁楼盖结构。此产品的快拆特性通过上下调动系统底部的可调支撑实现，通过人工往上调动支撑头撑起模板部件可实现紧固安装程序，而拆卸模板仅需把可调支撑往下调动。

Advantages

产品优势

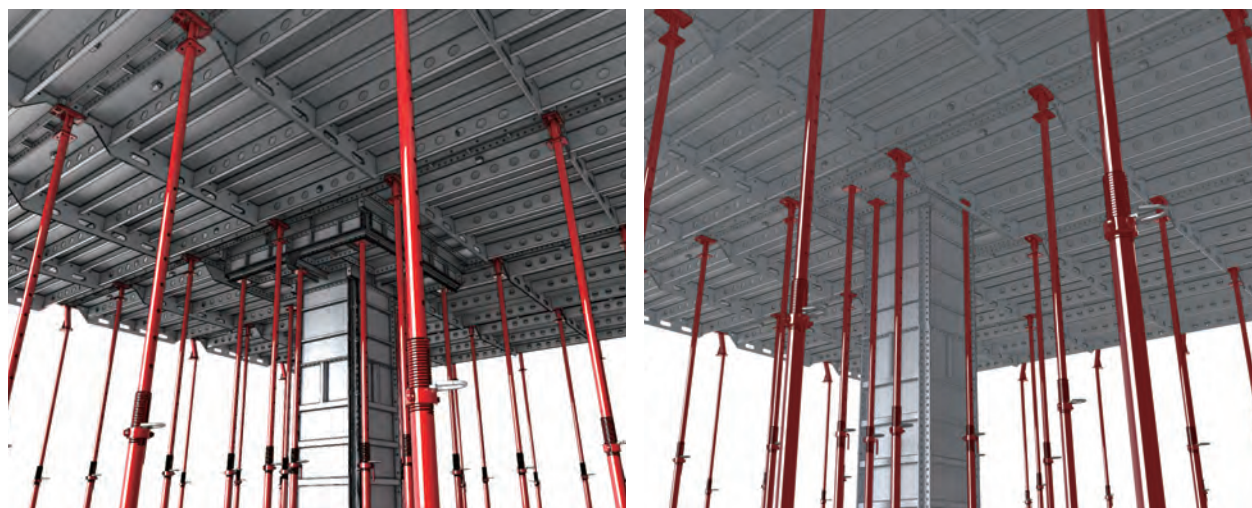
- Rapid Construction & Lightweight Handling**
快速施工
轻量化组件人工拆装
 - 1.2m×1.8m lightweight aluminium deck panels (36.77kg) require only two workers: pivot upward and lock onto quick-release prop heads for safe and efficient installation.
 - Standard panels transported via handcarts, eliminating crane requirements.
 - 1.2m×1.8m轻质铝模楼板(36.77kg) 仅需两人操作：由下而上转动面板锁定快拆支撑头，实现安全高效架设
 - 标准板件手推车运输，免重型吊装设备
- Full Compatibility & Multi-Project Reuse**
方便和兼容
跨项目通用设计
 - Compatible with aluminium, timber formwork, and precast concrete (PC) systems.
 - Standardized panel reusable across projects without redesign cost.
 - 适配铝模/木模/PC构件系统
 - 标准尺寸模板可重复周转至其他项目，无需新增设计成本
- Quick-release Prop Head**
快拆支撑头
 - The quick-release prop head and prop are designed separately. Props are compatible with traditional aluminium formwork systems. Removal of formwork panel does not affect the prop.
 - Two-stage lowering function prevents accidental panel drops during dismantling and boosts dismantling speed.
 - 快拆支撑头和支撑采用分离式设计，兼容传统铝模板系统，拆模时不影响支撑
 - 二级下降功能可防止模板在拆除时意外掉落，并提升拆模速度
- Superior Casting Quality**
成型质量好
 - Aluminium formwork delivers visibly better surface quality compared to alternative systems.
 - 使用铝模板浇筑的混凝土表面效果优于其他模板

Special Application

特殊应用

The Combination with the Existing Aluminium Formwork System

快拆系统和铝模系统的结合应用



The cast-in-place wall and column formwork utilizes existing aluminium formwork systems, connecting with the slab formwork via slab corner joint to achieve connection between slabs and wall or column formwork.

The existing deck panel system is also catered for the construction of small areas. By presetting formwork connecting holes at the panel edges of the quick-deck system, great combination of existing deck formwork with the quick-deck system can be realized.

Position of the edge holes connecting different formwork systems are 39.5mm below the formwork surface.

现浇墙柱模板采用现有的铝模体系，与顶板间通过C槽模板进行连接，从而实现顶板与墙柱模板之间的连接。

小区域顶板采用现有的顶板系统，通过预设模板连接孔于快速式顶板模板的封边上，实现现有顶板系统与快速式顶板系统之间的良好结合。

连接不同模板系统的封边孔位于各类模板表面往下39.5mm。

The Combination of Quick-Deck System with Timber Formwork

快拆系统和木模板的结合应用

The combination of the quick-deck system and timber formwork is performed, in case of all panels of the quick-deck system are in standard size, while the partial shapes of the construction area change greatly. This can improve the utilization rate of the quick-deck standard panels in the project, minimizing any additional costs incurred by the inclusion of special-shaped formwork, while contributing to the convenience for the construction party.

由于快速式顶板系统的使用区域的局部形状可能会有较大的变化，而快速式顶板模板系统均为标准板，这就要求在局部部位采用铝木结合系统。快速式顶板模板系统与木模体系的结合应用，能提高项目标准板的使用率，减少因异形板而增加的费用，同时为施工方提供便利。



The Combination with PC Components

快拆系统和PC构件的结合应用

Through the application of special edge prop head, the quick-deck system can achieve good combination with precast concrete components, and improve the scope of the formwork application.

通过特殊边缘支撑头的应用，快速式顶板模板系统可以与预制构件实现良好的结合，提高模板的使用范围。

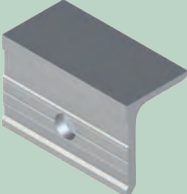


Main Components

主要构件

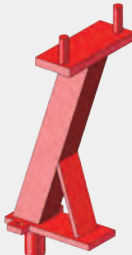
Formwork System

模板系统

			
Quick Deck Deck Panel 1200mm×1800mm 快拆顶板1200mm×1800mm	Quick Deck Filling Joist 100mm×1100mm 快拆填充龙骨100mm×1100mm	Quick Deck Plugging Aluminium Angle 50mm×100mm 快拆封堵角铝50mm×100mm	
Weight 重量	36.77kg	3.74kg	0.17kg
Material 材质	6061-T6		
Advantage 优势	GETO Quick-Deck system formwork can withstand construction loads up to 250mm thickness without the need for the temporary prop. 在无需临时支撑作用下，我司的快速式顶板系统模板能承受最大250mm板厚施工荷载作用。		

Support System

支撑系统

 Quick-deck Prop Head QD-PH-306 快拆支撑头QD-PH-306	 Quick-deck Slab End Prop Head QD-SEPH-416 边缘支撑QD-SEPH-416	 Quick-deck Slab End Prop Head QD-SEPH-408 边缘支撑QD-SEPH-408	 Quick-deck Wall End Prop Head QD-WEPH-396 墙侧支撑QD-WEPH-396	 Quick-deck Wall End Prop Head QD-WEPH-390 墙侧支撑QD-WEPH-390
Weight 重量 5.73kg	2.9kg	2.2kg	4.0kg	3.0kg
Usage Requirements 用途要求 It is the main steel support installed in the Interior area of quick-deck panels. 用于快速式顶板系统区域的内部	It is used to support the outer edge of the quick-deck system, and the area around the columns and beams. 用于快速式顶板系统外部边缘的支撑，也可用于柱子和横梁周围的区域			

Quick-Deck Prop Head

快拆支撑头

The quick-deck prop head is used in the middle part of the quick-deck system, which comprises of prop tray, prop bracket and stop plate.

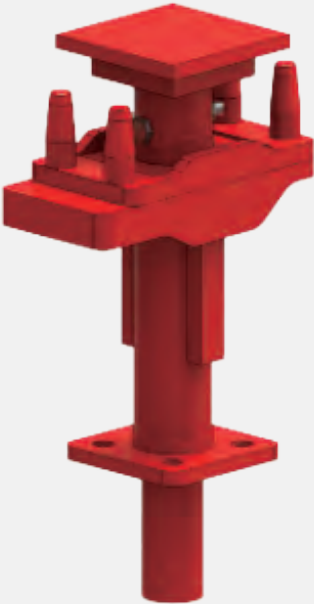
When installing the formwork, the stop plate is tightened. Next, the stop plate is directly set into the stop pad welded on the round tube of the prop tray, where the stop plate supports the prop bracket. Meanwhile, the prop bracket supports the edge of the quick-deck formwork system, as to realize the tightened state of the formwork installation.

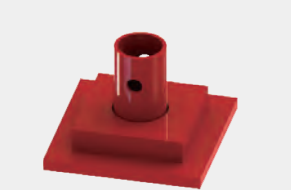
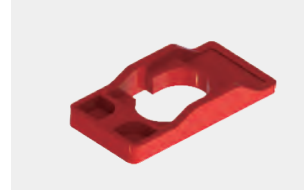
During the dismantlement process of the formwork, knock the stop plate in the reversed side, moving it down the groove. The stop plate and prop bracket are moved down at the same time with the prop tray remained static. This is how the quick-release feature of the quick-deck system is realized.

快拆支撑头用于快速式顶板系统的中间部位，由支撑托盘、支撑托架及限位片组成。

安装模板时，将限位片打紧。接着，限位片会直接坐落到焊接在支撑托盘圆管上的限位垫块上，并支撑住支撑托架，而支撑托架直接支撑住模板封边，从而实现模板安装的紧固性。

模板拆卸时，将限位片敲打至另一边，通过限位片上的卡槽往下移动，在保持支撑托盘不动的情况下，将限位片、支撑托架依次往下移动，从而实现模板的早拆性能。



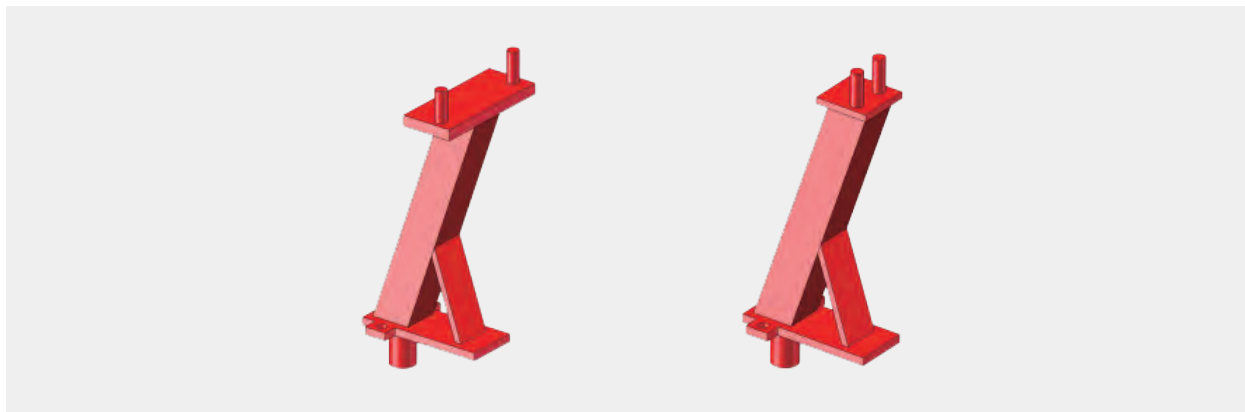
			
Prop Tray QD-PT 支撑托盘QD-PT	Prop Inner Tube QD-PIT 支撑内管QD-PIT	Prop Bracket QD-PB 支撑托架QD-PB	Stop Plate QD-SP 限位片QD-SP
Production Mode 生产方式			
Assembly by Welding 焊接拼装	Integrally Cast 整体铸造	Integrally Cast 整体铸造	Integrally Cast 整体铸造
Material 材质			
Q235 Steel Q235钢材	Q345 Steel Q345钢材	Q345 Steel Q345钢材	Q345 Steel Q345钢材

Quick-Deck Wall End Prop Head

墙侧支撑

The quick-deck wall end prop head is used in the area connecting the deck panel and the wall structure. To solve the position conflict between the prop and the wall structure, 30cm part of the prop head is made into an oblique shape, with a reinforcing steel panel welded behind it.

墙侧支撑用于顶板与墙相接的顶板区域,为了解决支撑与墙身的位置冲突,将支撑顶部30cm做成斜状,并在其后加焊加强钢板。

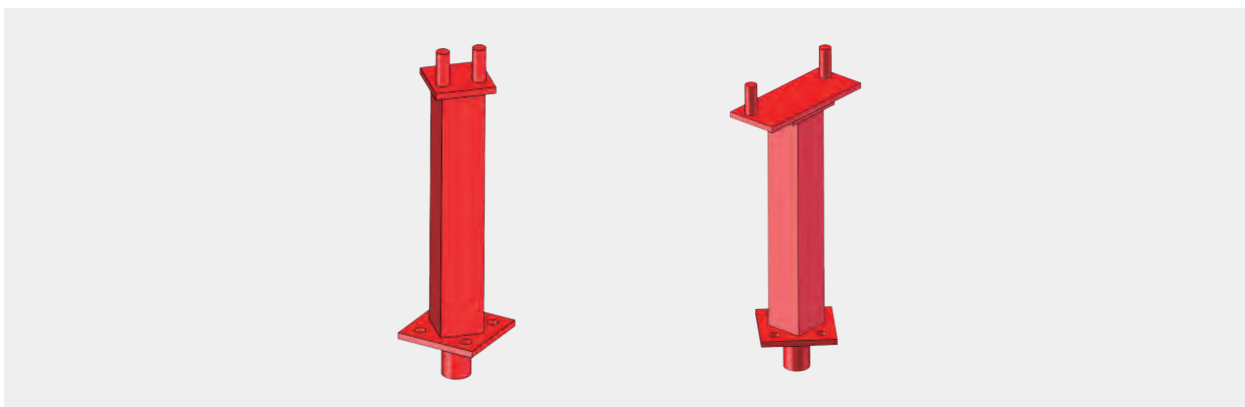


Quick-Deck Slab End Prop Head

边缘支撑

Formwork edge prop heads are used in the edge parts of the quick-deck panels or the panels' combining parts with the other formwork system.

模板边缘支撑头用于快速式顶板边缘区域,或者与其他系统模板结合处。



Prop System

支撑系统

The quick-deck system uses the steel prop system, combined with the newly developed prop head for support and reinforcement. A tripod is used to temporarily facilitate the erection of the prop. After the prop is fully erected, the tripod can be removed.

快速式顶板系统采用钢支撑系统,结合新开发的支撑头进行支撑加固。三角架作为临时辅助支撑竖立起来的工具。待支撑竖立完成后,三角架即可撤除。

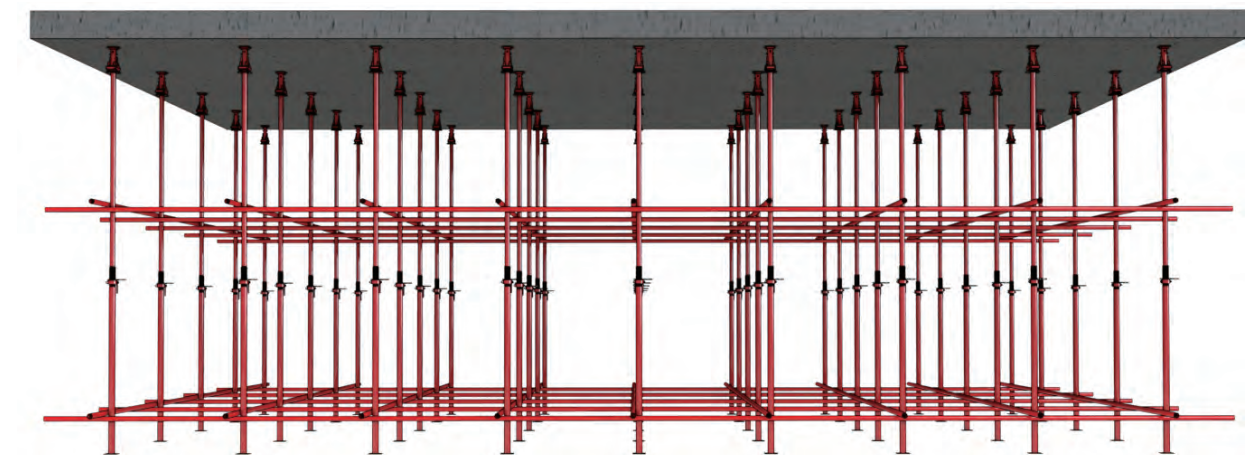


The outer diameter of the steel prop inner tube is 48mm, with 3.5mm for the wall thickness and Q355 for the material type. The outer diameter of the outer tube is 60mm, with 3.5mm for the wall thickness, and Q235 for the material type.

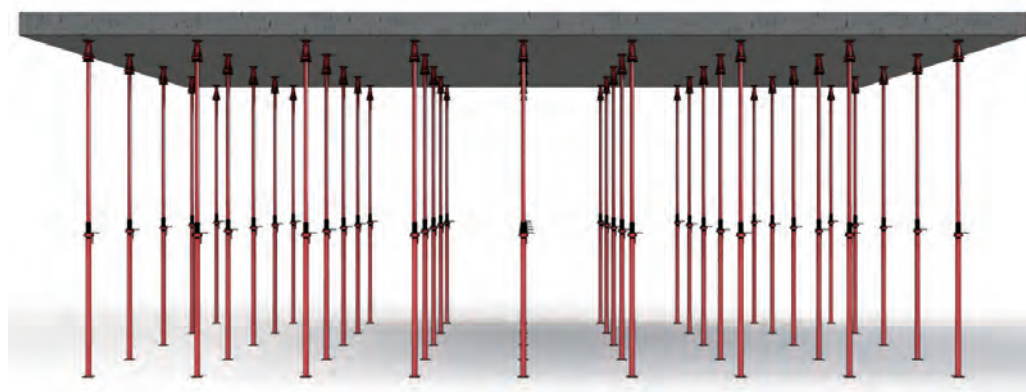
钢支撑内管外径为48mm,壁厚3.5mm,材质Q355;外管外径为60mm,壁厚3.5mm,材质Q235

*Requirements: In line with Q235/Q355 steel material international standards.

*要求:符合国标Q235/Q355钢材材质标准



Horizontal rods are set
需设置水平拉杆时



Horizontal rods are not set
无需设置水平拉杆时

Caution 注意事项

When the prop is erected, the tripod is used to temporarily assist the construction. The tripod can be removed after the erection. Everyone must check carefully before using the formwork to make sure the props are properly attached to the tripod.

在竖立支撑时,使用三角架临时辅助施工,待支撑竖立完成后,可以撤除三角架。任何人使用模板前必须细心检查,确保支撑已经正确地固定在三脚架上。

Operational Flow

施工流程

Installation Sequence

安装顺序

Based on the shape and size of the room, the workers can choose to install the quick-deck system by sequence from oneside or multiple sides, until the whole system installation is complete. The remaining space that could not be covered by the large-area deck formwork will be occupied by using timber formwork or plastic formwork.

根据房间的形状和大小,施工方可以选择从单边或多边开始依序安装快拆顶板系统,直至整套标准顶板模板系统安装完毕。大面积系统无法填补的剩余空间将采用铝木结合或者铝塑结合模式进行封堵。

Caution 注意事项

Before installation, ensure that each component of the quick-deck prop head is installed correctly, and the prop head is firmly connected to the prop. Ensure the safety of installation and prevent scarring.

安装前,确保快拆支撑头的各个组件安装正确,快拆支撑头与单支撑的螺丝连接牢靠。确保在安装时的安全性,小心砸伤。

01

Install the first row of adjustable props and the first deck formwork

安装第一排支撑和第一块顶板模板

Connect 0.1m*1.1m filling panel and 1.2m*1.8m standard panel with bolts or pins in advance. Erect the adjustable prop in accordance with the position and elevation marked in the construction drawing. The quick-deck standard panel should be installed on top of the prop head connecting the adjustable prop. Use a panel puller to lift the other side of the deck panel. Consequently, erect the rest of the adjustable props to fix the installation of the first panel.

提前将0.1m*1.1m填充面板和1.2m*1.8m标准模板用螺栓或者销钉连接好。按照图纸设计位置及标高竖立单支撑,将模板一端安装在支撑头上。使用拆卸器抬起面板的另一端,竖起其余单支撑,安装好第一块顶板模板。



02

Set up the first row of deck panel

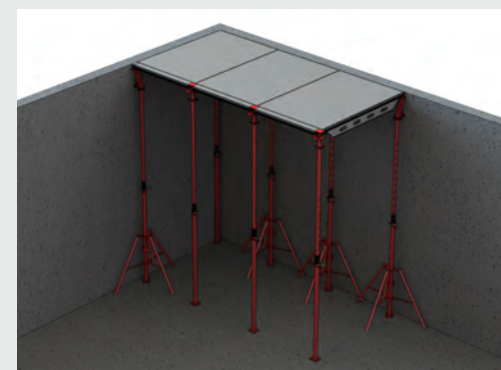
竖立第一排顶板模板

Repeat Step 1 until the first row of deck panels is fully erected.

Install pins into the gap between the two panels to ensure the stability of the formwork system, while tightening the prop head.

重复第1步,直到第一排快速式顶板模板竖立完成。

两块模板之间安装销钉以确保顶板的稳定性,同时敲紧支撑头



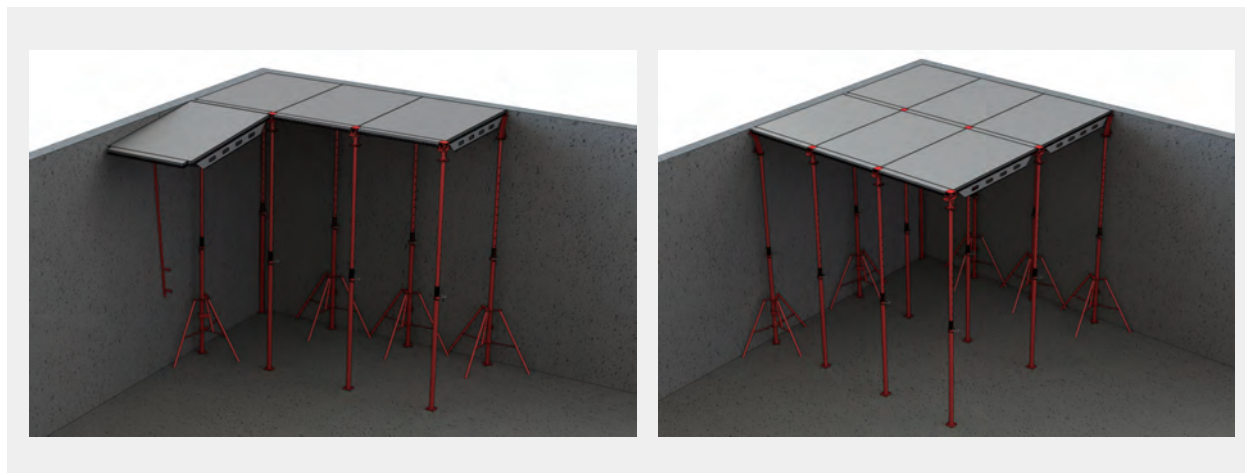
03

Repeat Step 1 and Step 2

重复第1步、第2步

Repeat steps 1 and 2 until all panel installations are installed. Next, fill the remaining areas unoccupied by the large-area formwork with timber formwork.

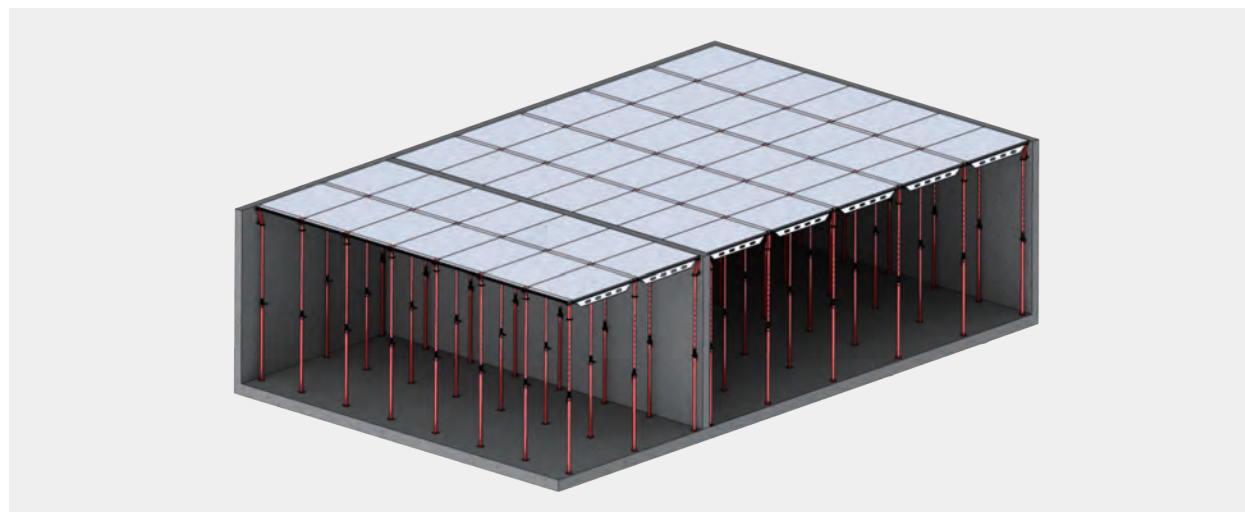
重复第1步、第2步直到所有标准模板都已安装完成,然后用木模板将剩余标准模板无法安装区域填满。



04

Repeat Steps 1, 2 and 3 until all areas have the designated formwork installed

重复第1、2、3步,直到把所有区域都安装完毕



Disassembly Sequence

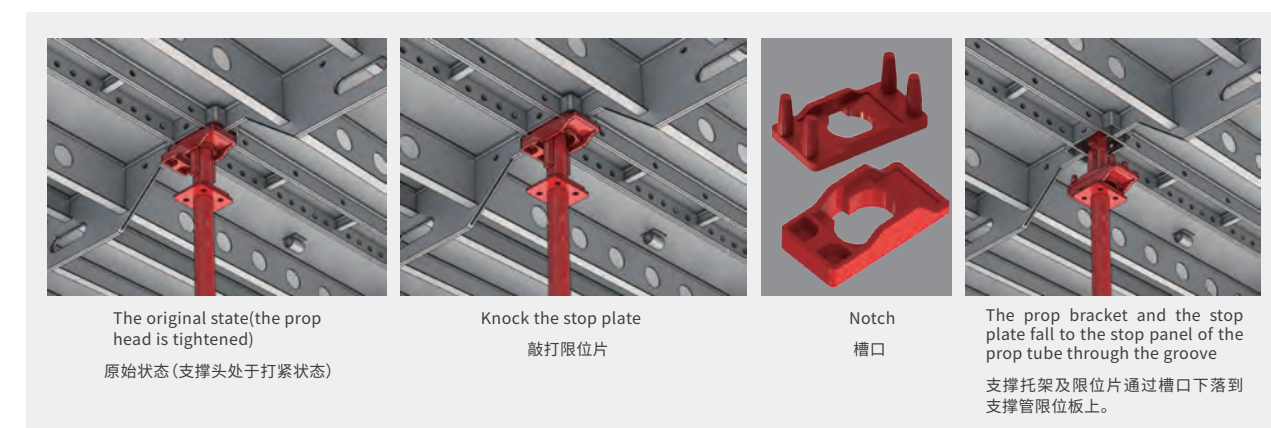
拆卸顺序

01

Release prop bracket and stop plate

释放支撑托架和限位片

用锤子敲击限位片侧面,让支撑托架和限位片落到支撑内管限位板上。



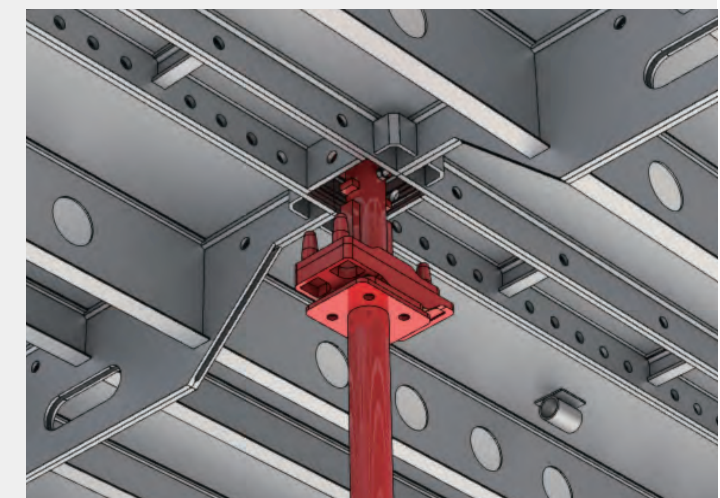
02

Rotate the Prop Bracket and Stop Plate

旋转支撑托架和限位片

The prop bracket and the stop plate are rotated by 90 degrees, which makes the panel and the joist of the quick-deck system easy to drop and dismantle.

将支撑托架和限位片旋转90°,使得快速式顶板系统的面板和龙骨在该处易于下降,便于拆卸。

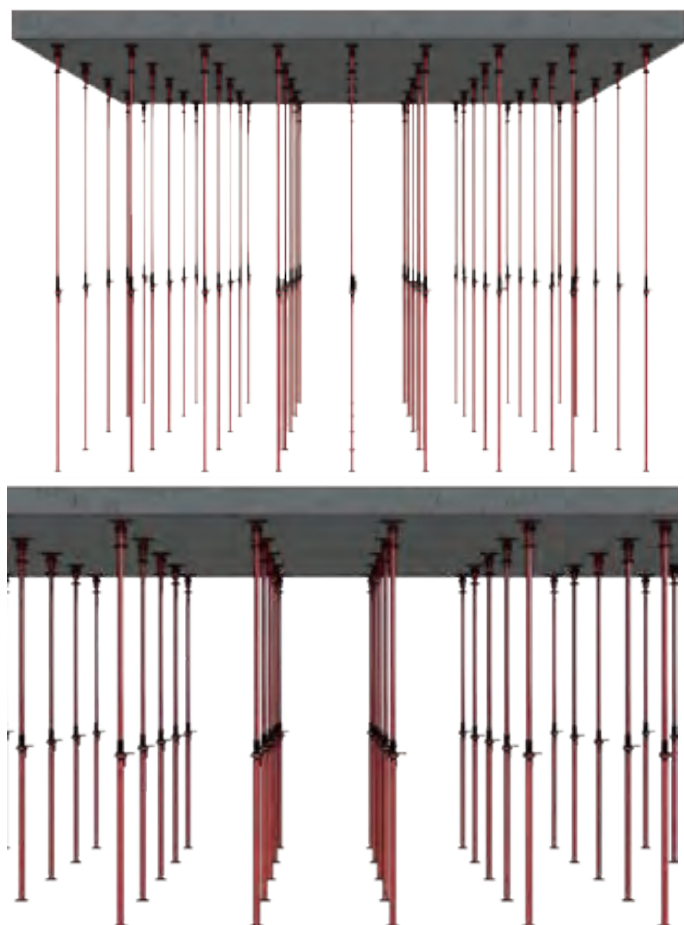


03 Remove the Deck Formwork

拆卸顶板模板

After the prop head is in place, take down the formwork slowly.

待支撑头落到位之后,缓缓取下模板。



04 Repeat steps 1, 2 and 3

重复第1、2、3步,直到把所有区域都安装完毕

When all the panels are removed, the prop and prop head remain in place for reverse support, so as to achieve the quick release performance of the quick-deck formwork system.

当所有面板都被拆除后,支撑和支撑头仍留在原地以用作反向支撑,从而实现快速式顶板模板系统的早拆性能。

Other Requirements

其他要求

Packaging Procedure

打包程序

Place the formwork on a wooden pallet accordingly, and pack them with wrapping stretch films and packaging belts.

将模板依次于叠放木托盘上,缠上缠绕膜,锁紧打包带。



On-Site Formwork Transfer by Trolley

运用手推车进行模板现场运输

Each trolley can carry four deck formworks concurrently. Only one person is needed for the mobility of the trolley.

每台小车可同时运输4块顶板模板。每台车只需要一个人推就可以推动。



Caution 注意事项

Transport, installation, disassembly formwork should be handled gently, do not fall heavily, otherwise easy to lead to irreversible deformation;

Do not drop sharp objects on the board. Otherwise, the board may be dented or punctured.

运输、安装、拆卸模板时应轻拿轻放,切勿重摔,否则容易产生不可逆的变形;禁止在板面上掉落尖锐的物体,不然板面会有凹陷或刺破的风险。

Project Cases

工程案例



Residensi Vista Adesa, Malaysia

Scope of Application: 6-story podium

Area: 3,900m²

Project Highlights:

- Extensive quick-deck formwork application enhances casting quality.
- Significantly reduces on-site waste and manual cleanup costs.

应用范围：裙楼6层

面积：3900平方米

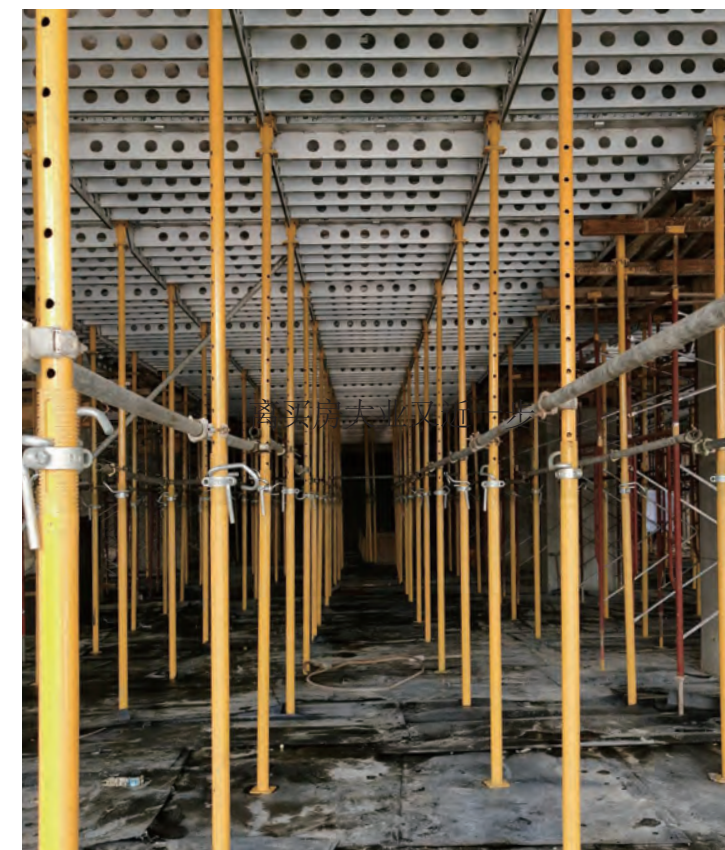
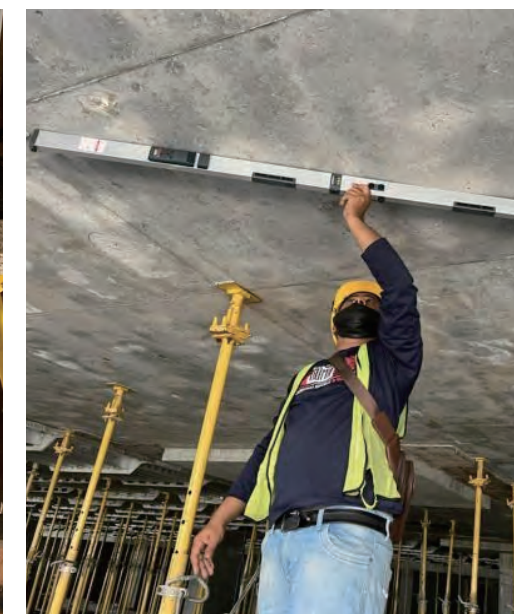
项目特点：

- 大面积应用快拆顶板显著提升整体成型质量
- 大幅减少现场建筑垃圾及人工清理成本



Project Cases

工程案例



M-Arisa, Malaysia

Scope of Application: Podium

Area: 2453m²

Project Highlights: Good forming effect. The flatness of concrete surface <4mm, the passing rate reaches 100% (local construction code: flatness <6mm).

应用范围: 裙楼

面积: 2453平方米

项目特点: 浇筑效果好, 模板浇筑效果平整度<4mm, 合格率达到100% (当地建筑规范: 平整度<6mm)

Project Cases

工程案例



J Satine, Malaysia



BHP, Malaysia



Astrum Ampang, Malaysia