

VICO Aluminium Slab Formwork System



COMPANY

PROFILE 企业简介

自创立以来，VICO ENGINEERING以“技术驱动基建创新，服务赋能全球工程”为核心理念，在深耕桥梁、隧道、海事工程及特种结构等重型土木工程领域的基础上，精准洞察民用建筑（简称“民建”）市场需求，打造“重型工程+民建领域”协同发展模式，为全类型工程项目提供从方案研发到现场交付的全链条解决方案，致力于成为连接全球多元工程需求与前沿技术的核心力量。

Since its establishment, VICO ENGINEERING has adhered to the core philosophy of "Driving Infrastructure Innovation with Technology, Empowering Global Projects with Services". While deeply engaging in heavy civil engineering fields such as bridges, tunnels, maritime engineering and special structures, it has accurately grasped the needs of the civil construction market, creating a coordinated development model of "heavy engineering+civil construction", and providing full-chain solutions from R&D to on-site delivery for all types of engineering projects. It is committed to becoming a core force connecting global diversified engineering needs with cutting-edge technologies.



依托VICO Engineering在全球工程服务领域的深厚积淀，VICO ENGINEERING 构建了覆盖前期咨询、方案设计、制造监理、现场调试的高效本地化服务网络，自有VICO ENGINEERING 工厂更是民建模板与模架核心竞争力的关键支撑——作为 模块化装备核心生产基地，工厂以20万平米占地、5个现代化生产车间为硬件基础，延续“设备设计-制造-现场应用”全 流程把控逻辑，配备适配民建模板模架生产的数控设备与全流程质检体系，确保精度对标重型工程标准，更针对民建施工特性 实现差异化突破。例如，标准化民建模板可匹配住宅、商业楼宇通用尺寸，缩短筹备周期；定制化模架能应对异形户型、层高变化需求，借鉴“可拆装、易调整”模块化思路实现快速组装与重复利用，解决民建工期、成本、交付痛点。同时，工厂具备柔性生产能力，可按民建项目需求调整方案，保障产品品质与效率，强化民建领域服务优势。

Relying on VICO ENGINEERING profound accumulation in the global engineering service field, VICO ENGINEERING has built an efficient localized service network covering early consultation, solution design, manufacturing supervision and on-site commissioning. Its own VICO ENGINEERING Factory is the key support for the core competitiveness of civil construction formwork and scaffolding. As a core production base for modular equipment, the factory is based on the hardware foundation of 200,000 square meters of area and 5 modern production workshops. It adheres to the full-process control logic of "equipment design-manufacturing-on-site application" and is equipped with CNC equipment and full-process quality inspection systems suitable for civil construction formwork and scaffolding production. This ensures precision meets heavy engineering standards, and achieves differentiated breakthroughs according to civil construction characteristics. For example, standardized civil construction formwork can match the general dimensions of residential and commercial buildings to shorten the preparation cycle. Customized scaffolding can meet the needs of special-shaped house types and floor height changes, and realize quick assembly and reuse by drawing on the "detachable and easy-to-adjust" modular concept, solving the pain points of civil construction schedule, cost and delivery. At the same time, the factory has flexible production capabilities, which can adjust plans according to civil construction project needs, ensuring product quality and efficiency, and strengthening service advantages in the civil construction field.

产品系列

【模板体系】

- ※ 120 钢框胶合板模板体系
- ※ 木梁模板体系
- ※ 铝合金模板体系
- ※ 饰面清水混凝土模板体系
- ※ 106 夹具式钢模板体系
- ※ 120 全钢模板体系
- ※ 型材组拼式模板体系
- ※ 单侧支模体系

- ※ 悬臂模板体系
- ※ 液压爬模体系

- ※ 150 铝合金顶板模板体系
- ※ C 型材台模体系

- ※ 桥隧模板体系
- ※ 异型模板

【脚手架系列】

- ※ 圆盘系统支撑架
- ※ 门式脚手架
- ※ 碗扣式脚手架
- ※ 轮扣式脚手架
- ※ 钢管脚手架
- ※ 可调钢支撑
- ※ 脚手架配件

【VICO 型材】

- ※ 冷弯型材
- ※ 工字木梁
- ※ 几字型梁

【拆装式房屋】

【典型工程】

【国际合作】

Lists of Product

【Formwork System】

- ※ 120 Universal Panel Formwork System
- ※ Timber Beam Formwork System
- ※ Aluminium Formwork System
- ※ Fair-faced Concrete Formwork System
- ※ 106 Steel Formwork System
- ※ 120 All-steel Formwork System
- ※ Assembled Forming Formwork System
- ※ Single-sided Formwork System

- ※ Cantilever Formwork System
- ※ Automatic Climbing Formwork System

- ※ 150 Aluminium Slab Formwork System
- ※ C Forming Tableform System

- ※ Bridge & Tunnel Formwork System
- ※ Special Formwork

【Scaffolding Series】

- ※ Ring System Scaffold
- ※ Frame-connected Scaffolding
- ※ Cup-lock Scaffolding
- ※ Ring-lock Scaffolding
- ※ Steel-tube Scaffolding
- ※ Adjustable Steel Props
- ※ Scaffolding Accessories

【Profile】

- ※ Cold Roll-forming Profile
- ※ Timber H Beam
- ※ Steel & Wood Beam

【Prefabricated House】

【Typical Project】

【Worldwide Corporation】

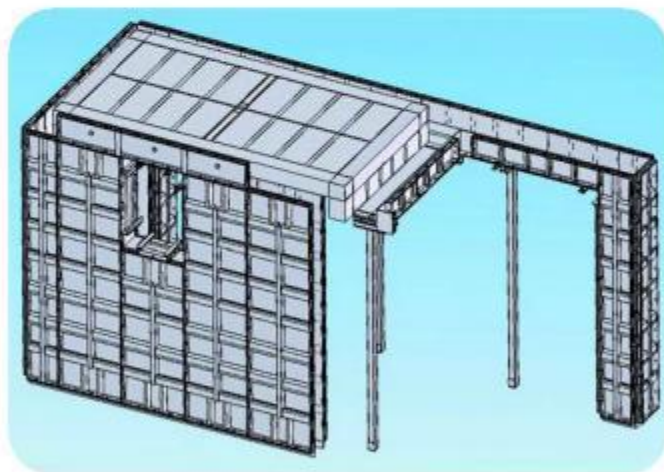
体系介绍 Introduction

本产品是根据国内外模架体系向轻质、高强、体系化与工具化的方向发展，而研制的一种新型轻质高强建筑模板体系，模板体系采用铝合金材质成型，克服了现有模板的诸多缺陷，搬运方便、结构简单、运用广泛。体系中的铝合金材料受力合理、市场供应充足，并满足建筑模板的各项性能。

According to the international trend of formwork development which is of formwork systematism, implementation, with light weight and high rigidity, the Aluminum Formwork System appeared. This Formwork system is made of Aluminum so that it is convenient for transportation, with easy structure and reasonable load and all in all meet the needs of all kinds of construction.



体系特点 Characteristics



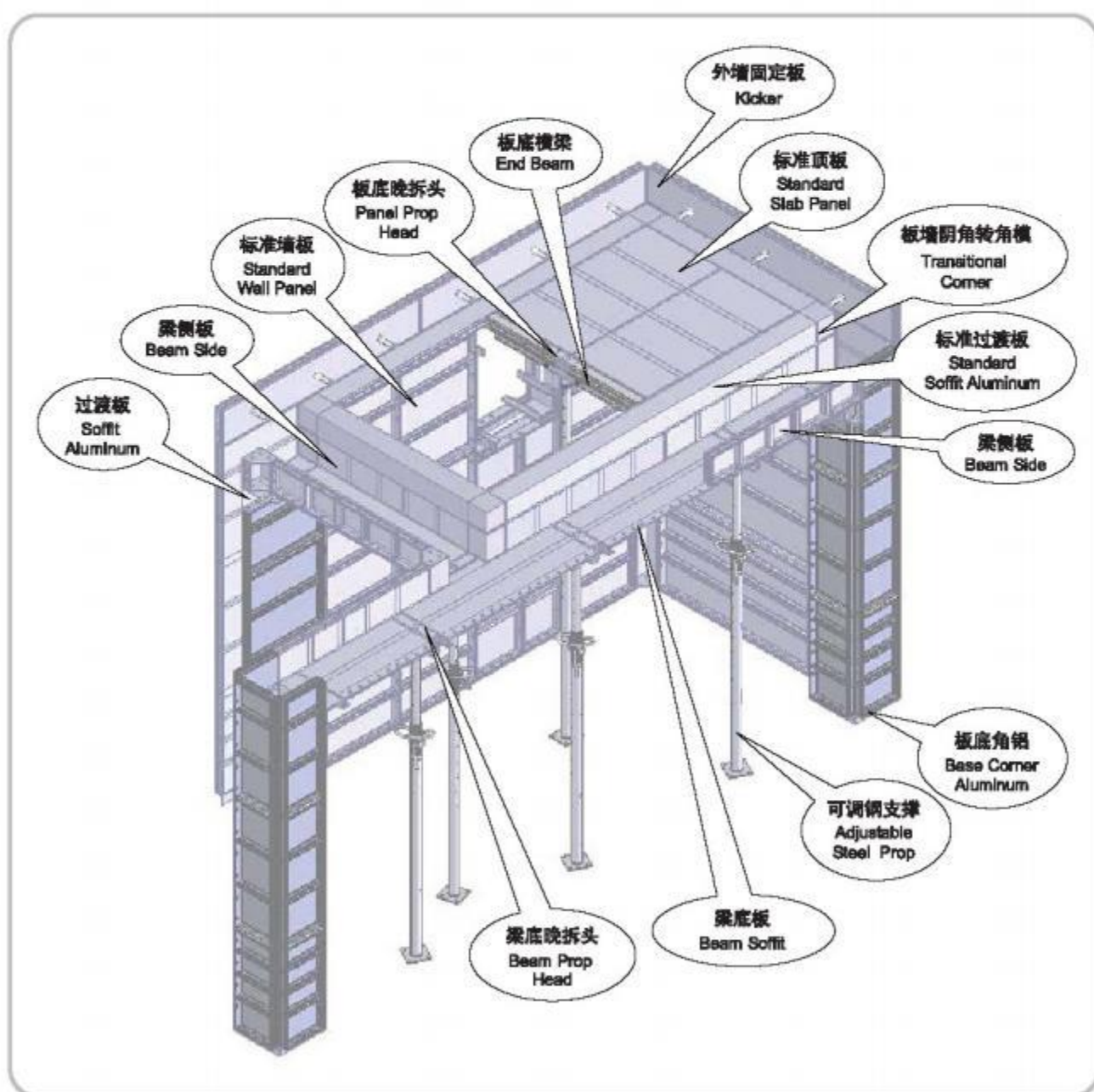
- 重量轻，承载能力大，模板可实现单人搬运，现场组装，大大降低了模板拆装、运输机械费和模板维护修理费；
- 设计合理、加工精细，尺寸准确，接缝紧密，浇筑的混凝土表面平整；
- 设计标准化，具有很好的通用性、互换性；
- 操作简单、安全、快捷；
- 不锈蚀，易保养，使用寿命长，周转次数高；
- 模板所需材料采用铝合金。

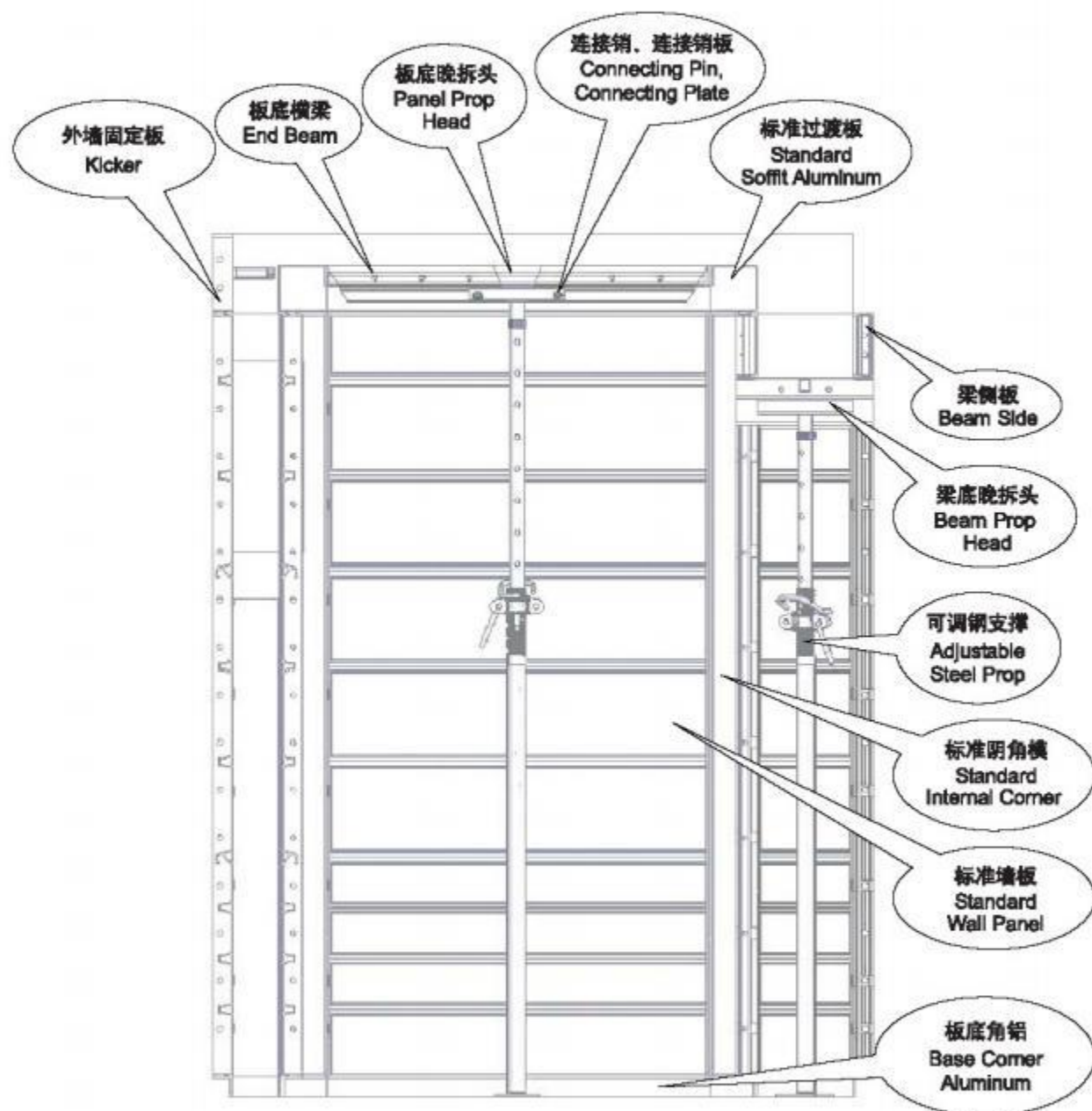
- This formwork which can be assembled on-site is light so that the manual transportation could be achieved, but at the same time it is with high load bearing capacity, and greatly reduces the aggregate cost.
- Perfect design, excellent produce, and well welding make sure the flatness of concrete surface.
- It is with the advantages of standard design, excellent applicability and interchangeable.
- Simple, safe and fast.
- No rust corrosion, easy maintenance, high turnover rate.
- All parts of Formwork System are made of Aluminum.

体系组成 System Component

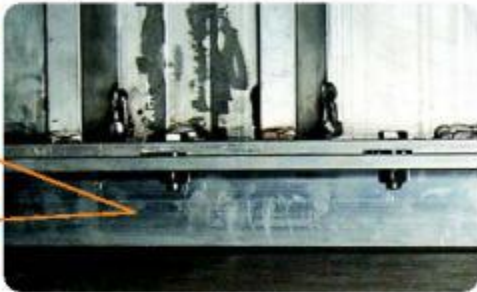
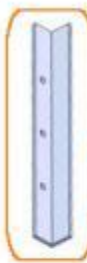
该模板体系包括墙、柱、梁、板等所有模板，面板和模板骨架全为铝合金材料；模板间的连接采用专用销扣；模板体系可实现早拆，墙体模板标准规格为 600mmX2400mm，顶板模板标准规格为 600mmX1200mm，重量为 23kg/m²。

Wall, column, and beam panel are all included in this system. All parts are made of Aluminium. Early dismantling can be realized in this system. The standard specification of wall is 600mmX2400mm and slab is 600mmX1200mm; 23kg/m² in weight.





组成配件的应用介绍 Application of the Component Elements



板底角铝
Base Corner Aluminum



板底横梁
End Beam

横梁连接板
Beam Bar



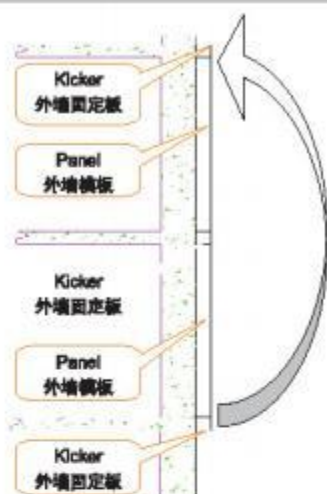
连接销
Connecting Pin



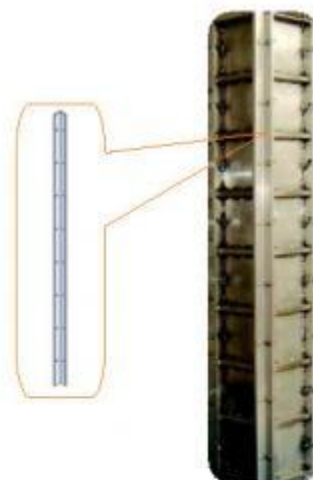
板底晚拆头
Panel Prop Head



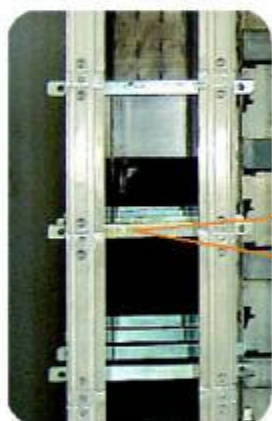
梁底晚拆头
Beam Prop Head



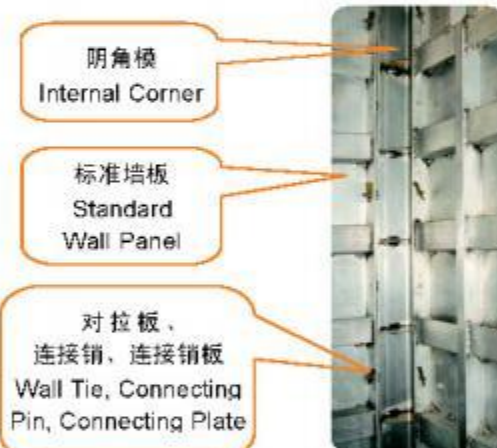
外墙固定板
Kicker



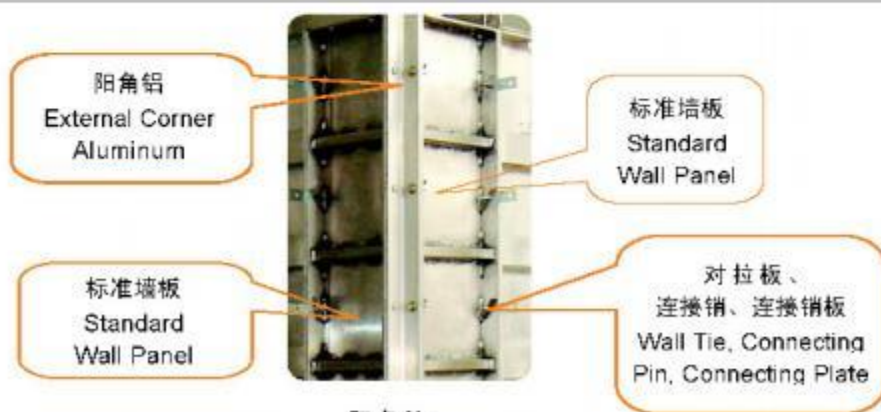
阳角铝
External Corner Aluminum



对拉板
Wall Tie



阴角处
Internal Corner

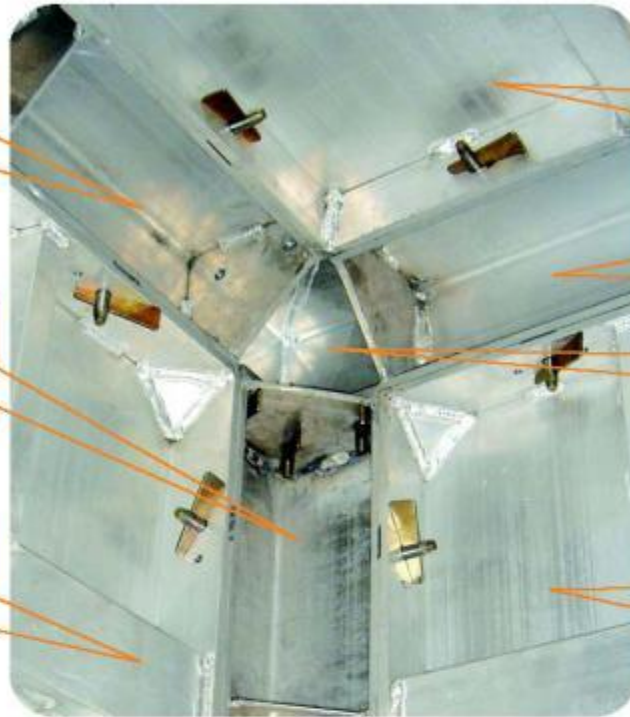


阳角处
External Corner

标准过度板
Standard Soffit
Aluminum

标准阴角模
Standard Internal
Corner

标准墙板
Standard
Wall Panel



标准顶板
Standard
Slab Panel

标准过度板
Standard Soffit
Aluminum

板墙阴角转角模
Transitional Corner

标准墙板
Standard
Wall Panel

顶板、培板、阴角模与过度板连接
The Connection of Slab Panel, Wall Panel, Internal
Corner and Soffit Aluminum

标准顶板
Standard
Slab Panel

标准过度板
Standard
Soffit Aluminum

标准墙板
Standard
Wall Panel



顶板、培板转换连接
The Connection between Slab Panel and Wall Panel

板墙阴角转角模
Transitional Corner

标准过度板
Standard Soffit
Aluminum



标准顶板
Standard
Slab Panel

标准过度板
Standard Soffit
Aluminum

梁侧板
Beam Side

梁底板
Beam Soffit

梁侧板、顶板转换连接
The Connection between Beam Side and Slab Panel

连接销
Connecting Pin

板底晚拆头
Panel Prop Head



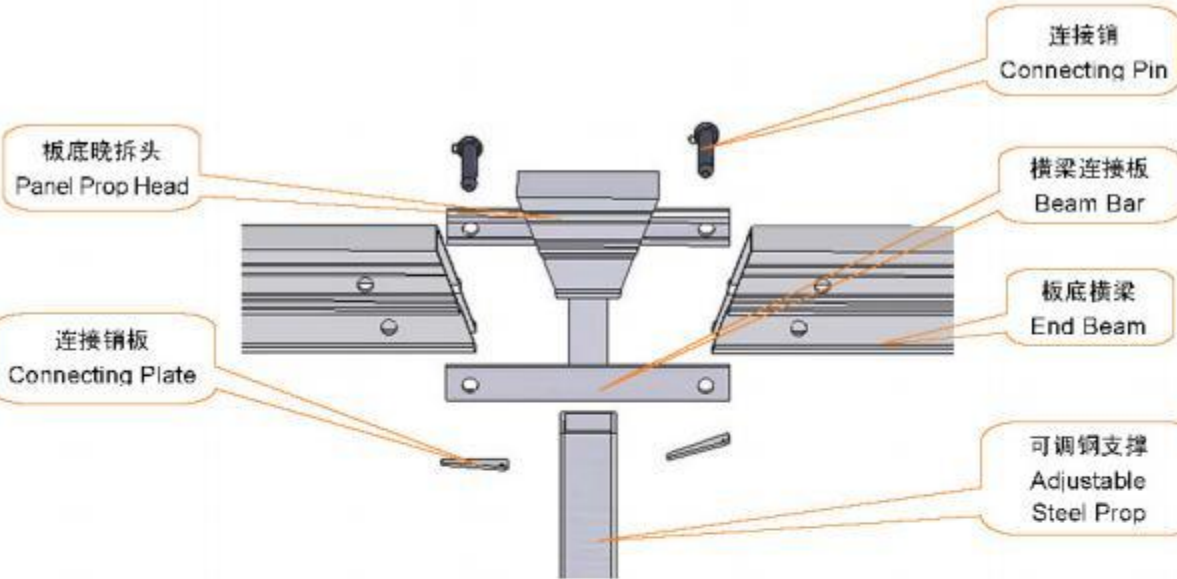
标准顶板
Standard
Slab Panel

板底横梁
End Beam

横梁连接板
Beam Bar

可调钢支撑
Adjustable
Steel Prop

晚拆头连接形式
The Connection Way of Panel Prop Head



晚拆设计分解
Decomposition



梁梁相交
Crossed Beam



梁柱相交
Beam and Column



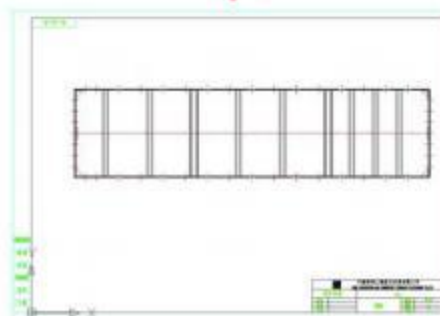
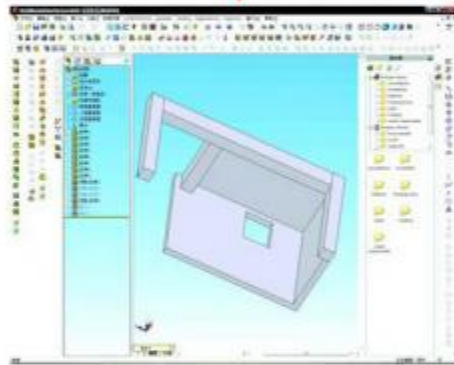
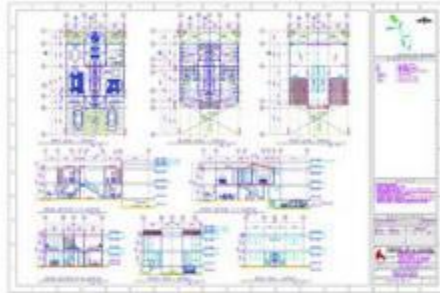
梁底晚拆支撑效果
The Use of the Beam Prop Head



窗洞口处理
Window Disposal

工程设计流程 Design Flow

1、工程图分析 (Analysis of Formwork Process Drawing) → 2、三维图 (3D Drawing) → 3、模板布置图 (Layout Drawing of Panels) → 4、模板加工图 (Formwork Process Drawing)



模板体系的应用 Application in the Projects



安装完单侧墙模板
The Assembled Single-sided
Wall Panels



按顺序安装竖向模板
The Assembling of Vertical Panels in Order



柱、梁、顶板
Column, Beam and Slab Panels in the Project



安装顶板、梁底板
The Assembling of the Slab and Beam Soffit



梁、柱模板的安装
The Installation of the Beam and Column Panels



安装完成的模板

The Assembled Formwork System for the Project



拆除模板
Dismantle the Formwork



模板拆除后剩下晚拆头及支撑

The Remained Prop Head and Steel Props after Dismantle the Formwork Panels



对拉板的拆除工具

The Tool for Dismantling Wall Tie

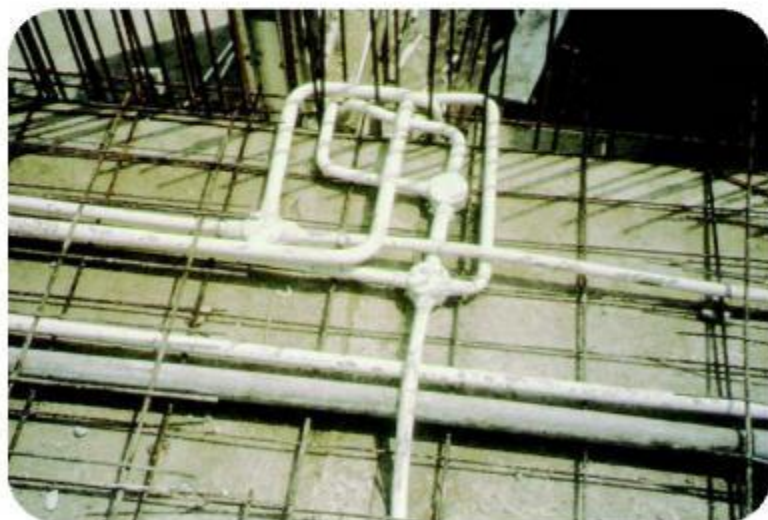


模板的拆除工具

The Tool for Dismantling the Panels



拆除模板后的效果
The Effect after the Formwork Dismantling



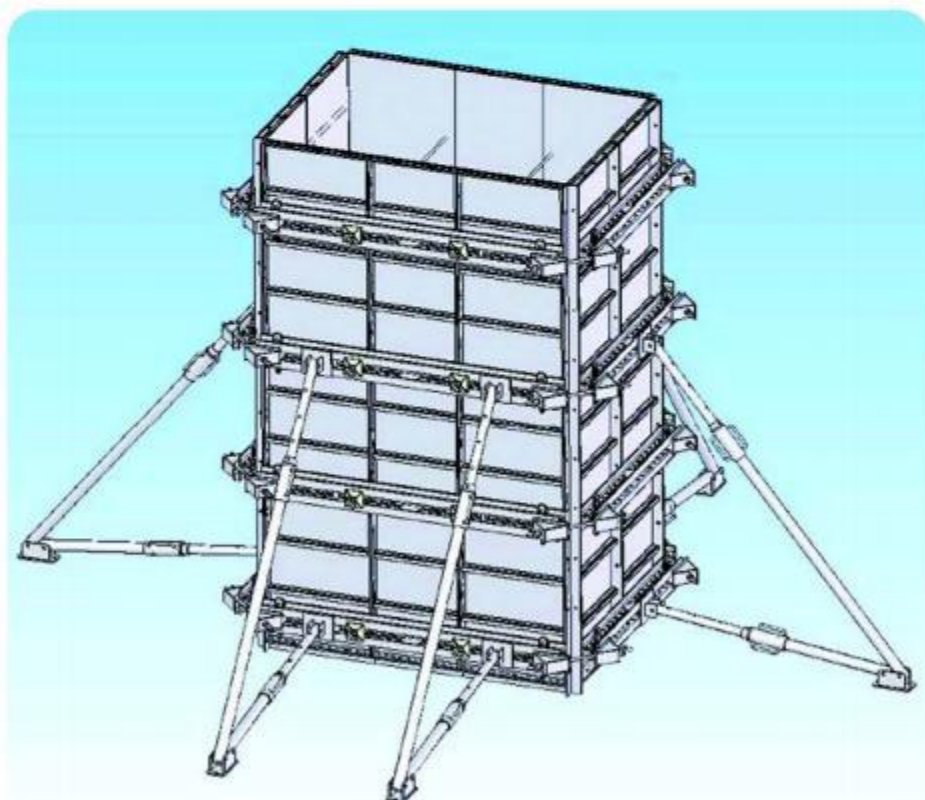
管线的处理
The Disposal of the Tube and Line



樓梯模板
Stairs Formwork



外側模板可用懸臂架或外挂架
The Both Light and Top Cantilever Bracket Could Be Used at the Outer Wall



较大截面的柱子模板
Section of Column Formwork System

典型工程案例 Typical Projects

© 马来西亚 Eagle Profile 项目 (Project of Eagle Profile in Malaysia):

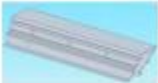


◎ 印度 P100 Mirdif Villas 项目 (Project of P100 Mirdif Villas in India):



部件列表 Details

序号 SN	名称 Name	编号/代号 Item No./Code	样图 Display	规格 Specifications	单重 Unit Weight (kg)
1	标准阴角模 Standard Internal Corner	652415		150x150x2400	14
2	标准墙板 Standard Wall Panel	652460		600x2400	31.5
3	标准顶板 Standard Slab Panel	651260		600x1200	14.5
4	标准过渡板 Standard Soffit Aluminum	650120		L=1800	16.5
5	梁侧板 Beam Side	651200		L=1200	6.5
6	梁底板 Beam Soffit	601200		L=1200	11
7	板墙阴角转角模 Transitional Corner	60015		150	1.1
8	外墙固定板 Kicker	651820		L=1800	10
9	阳角铝 External Corner Aluminum	612465		L=2465	7.4
10	阴角模角铝 Internal Corner Aluminum	650001		L=150	0.8
11	板底角铝 Base Corner Aluminum	610600		L=600	1.8
12	可调钢支撑 Adjustable Steel Prop	15080236		48/60	18

序号 SN	名称 Name	编号/代号 Item No./Code	样图 Display	规格 Specifications	单重 Unit Weight (kg)
13	梁底晚拆头 Beam Prop Head	620075		L=430	2
14	板底晚拆头 Panel Prop Head	650003		150x75	1
15	板底横梁 End Beam	631800		L=1800	10.2
16	横梁连接板 Beam Bar	650004		L=300	0.5
17	连接销 Connecting Pin	650005		L=57	0.1
18	连接销 (加长) Connecting Pin (Lengthen)	650006		L=117	0.2
19	连接销板 Connecting Plate	650007		L=70	0.05
20	对拉板 Wall Tie	650008		L=400	0.5
21	对拉板套管 Wall Tie Sleeve	650009			
22	对拉板拆除器 Dismantling Tool for Wall Tie	650010			
23	拆模杆 Dismantling Pole	650011			
24	螺栓 M20 ROD M20				
25	螺栓 M16x35 ROD M16x35				
26	Φ20 套管头 Φ20 Plug				
27	Φ21 套管 Φ21 PVC Sleeve				

典型工程 Typical Project



北京联想研发基地 Research Center of Lenovo



中国中央电视台新台址 New Site of CCTV



国家体育馆 (2008 北京奥运会主体育场)
National Stadium (Main Stadium of Beijing 2008
Olympic Games)



加拿大温哥华快乐公园项目
8228/8220 Westminister Hwy, Richmond,
B.C. Canada



阿联酋拉古拉项目
Lagula Tower located
in U.A.E



乌克兰第聂伯办公楼
Luzanovka located in Днєпр, Ukraine



卡塔尔多哈高层办公楼
Commercial High-rise Building
located in Doha, Qatar



迪拜天阁高档住宅楼
Skycourts Project in Dubai, U.A.E



澳大利亚悉尼BILLBERGIA 项目
Billbergia located in Sydney, Australia



阿联酋阿杰曼项目
Project located in Ajman,
U.A.E



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International Convention Center, Jinzhou



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