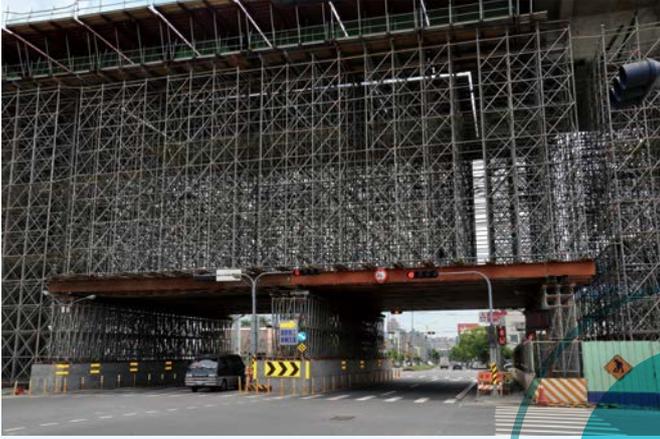


SUCOOT



Project Design



RING SYSTEM SCAFFOLD



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1. About Us

SUCOOT CO., LTD. was set up in 1984 and specializes in Scaffolding Accessories & Formwork Parts. Today, we have customers spreading over 65 countries around the world. Our products are engineered for the specific purpose of safety, strength and flexibility to meet international standards within this industry. We are confident that our quality is on par with other world-leading brands—especially our Ring System Scaffold. This system is widely used in many civil engineering projects worldwide. This includes high speed rail, freeway, elevated railway, subway, high-tech factories, music concert event application and other projects.



With our technical knowledge, ready-to-ship inventory and full-service solution, we are able to serve customers with confidence and quality. If you have any enquiries regarding our products, please feel free to contact us.



2. Key Advantages

There are 5 Key Advantages of SUCCOOT's Ring System Scaffold which make us superior to other suppliers.

1. Vertical Connection Allowance $\leq 1.8\text{mm}$

To control the allowance between Verticals and Spigots within 1.8mm, we have developed a device that can remove the hot dip galvanizing residue inside the tube.

* According to the test result, the loading can reach at least 94% when the maximum allowance is 1.8mm; whilst, if the other brand allowance is 3.0mm, the loading only can reach 50%. The higher the scaffold assembled, the less the loading can bear.



2. Vertical Connection is Through "Cross Section", Rather Than "Point"

We use high-precision circular sawing machines to ensure the tubes are cut precisely. This allows for no visible gap between the tube connections, making the cross sections of our tubes are smooth.



3. Vertical Deviation at 0.3%

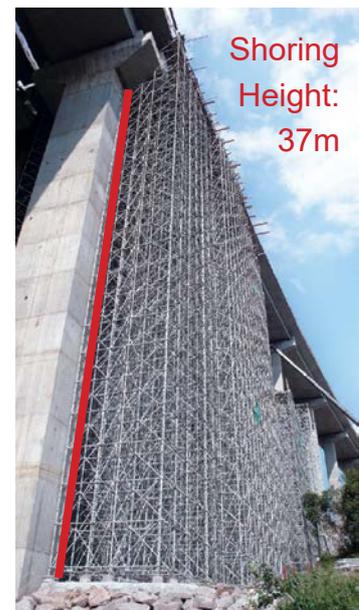
It is on par with ACI 117-06, the permanent concrete structure which below 25.4m height, the vertical deviation need to be controlled within 0.3%. The less vertical deviation, the less influence on eccentric bending moment.

4. Finest Quality & Greatly Improve Construction Efficiency.

The rings are stamped from Q355B high-strength steel, tubes are made of high tensile steel "STK500".

5. 100% Safety

Ring System has been used for 20 years. Safety is always our priority. Our scaffolding has never collapsed caused by overloading or defect.



3. Applications

- *Viaduct, Ramp, Side Traffic Lane, Pier Cap*
- *MRT Station, Railway Underground Station, Cut-and-cover Tunnel, Vehicle Box Culvert, Drainage Box Culvert*
- *Hi-Tech Factory, Gas Turbine Room, Power Plant, Water Tower, Recycling Plant, Refinery, Incinerator*
- *Large-Scale Performance Stage*
- *Suspended Scaffolding for maintenance work in Shopping Mall / Department Store*





SUCCO

- Ring System Scaffold can be flexibly assembled for different kinds of projects. *<Our Engineering team can provide design and calculation as per your project>*



Large Overpass Bridge (Arch)



For steep slopes, our Ring System can replace heavy duty frames in shoring.

Significant Projects

Suspended Scaffolding- Tower and Bridge



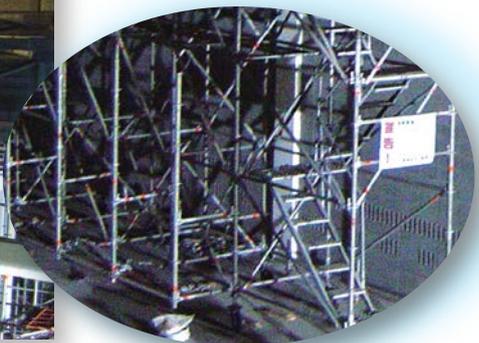
Taiwan Railway- Wujih New Station



Suvarnabhumi Airport 



Access Scaffolding for High Level Installation Work



Towers and Bridges can be moved with rollers which saves time and labor costs.

Industrial Park- 3000 tons Water Tower



Industrial Park- 500 tons Water Tower



Pumping Station ▶

Water Tower ▼



Suhua Highway Pylon Façade



Taichung Expressway No.2 Shoring



Vietnam Power Plant Foundation Shoring



Taipei MRT- Y- Shaped Pier Cap Shoring



Taipei MRT- Superstructure Formwork and Shoring



China Chongqing Bridge Three-span Shoring(6-30m height)



New Suhua Highway



Y-Shaped Pier Cap Shoring



Underground, Cut-and-cover Tunnel Slab Shoring



Shoring Platform for Roof Forming Machine



Tunnel Shoring



Israel Logistic Center-Tableform Application



Indonesia Bridge Pylon Shoring



Chongqing, China H:37m Bridge Shoring



Taiwan Tunnel Arch Form Shoring



Cable-stayed Pylon - Pier Table Shoring



Shoring for Steel Structure Factory Assembly



Taipei Music Center –
Shoring for Steel Structure



Tainan Green Energy Technology
Demonstration Site – Shoring for Steel
Structure Solar Tree



Taoyuan Convention and Exhibition Center –
Shoring for Steel Structure Roof



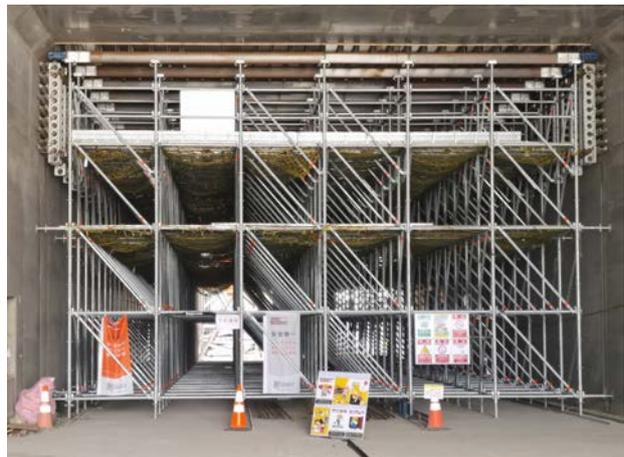
Thailand MRT Station –
Shoring for Precast Beam



Hi-Tech Factory Slab Shoring



Underground Railway, Cut-and-cover
Tunnel Slab Formwork and Shoring



Central Taiwan Science Park Southbound Access Road – Pier Table Shoring



Kaohsiung Dragon Bridge Shoring (Arch)



Superstructure Shoring in Slope



Central Taiwan Science Park Southbound Access Road – Superstructure Formwork and Shoring



Hualien Jian-ying Bridge Pier Table Shoring

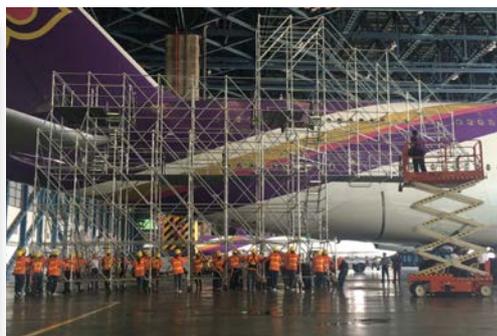
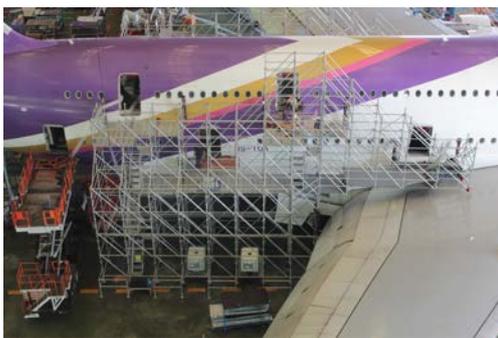


Taipower Tower Base Cross Beam Shoring





Airbus A380 Maintenance

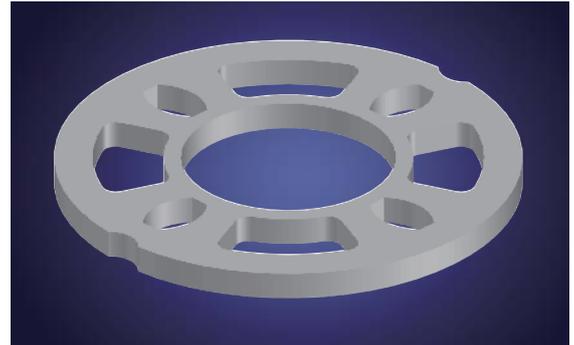


- $\varnothing 48.6$ mm System (Both metric and inch sizes are available.)
Staging for Music Concert, Sports Meet and Election Campaign.



4. Features

- All components have excellent structural strength. Verticals are assembled with horizontals and diagonals can form excellent combination.
- Simple and rapid assembly can save a lot of time and labor costs.
- With the universal joint and interchangeable components, this system can be used in different kinds of projects.

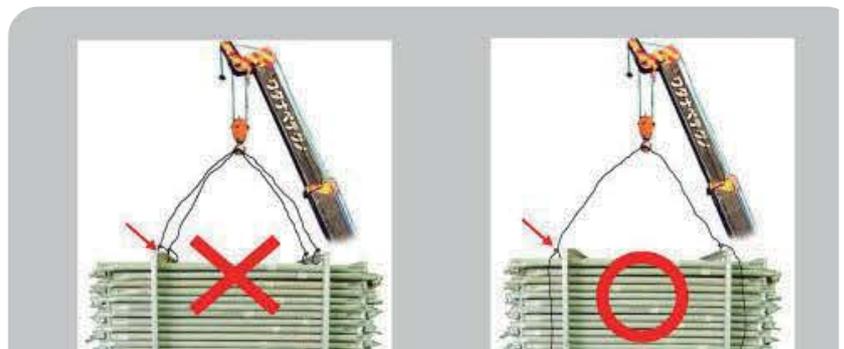


8 holes in one ring :
Big hole: for Diagonal, Level Diagonal
Small hole: for Horizontal

- All components are made of high tensile steel (JIS STK500) with hot dip galvanized finish for long life.



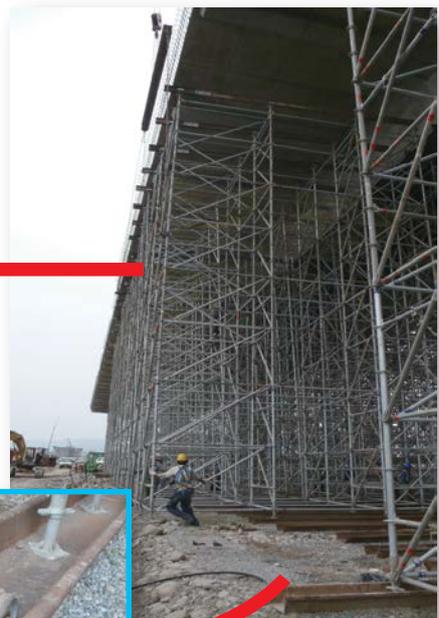
- Individual components can be packed in bundles for easy storage and transportation.





SUCCO

- *In viaduct construction, complete scaffold towers can be moved horizontally by using special wheels and rails, or simply lifted to the next location by crane. This method has been proven to save considerable time and labor costs.*

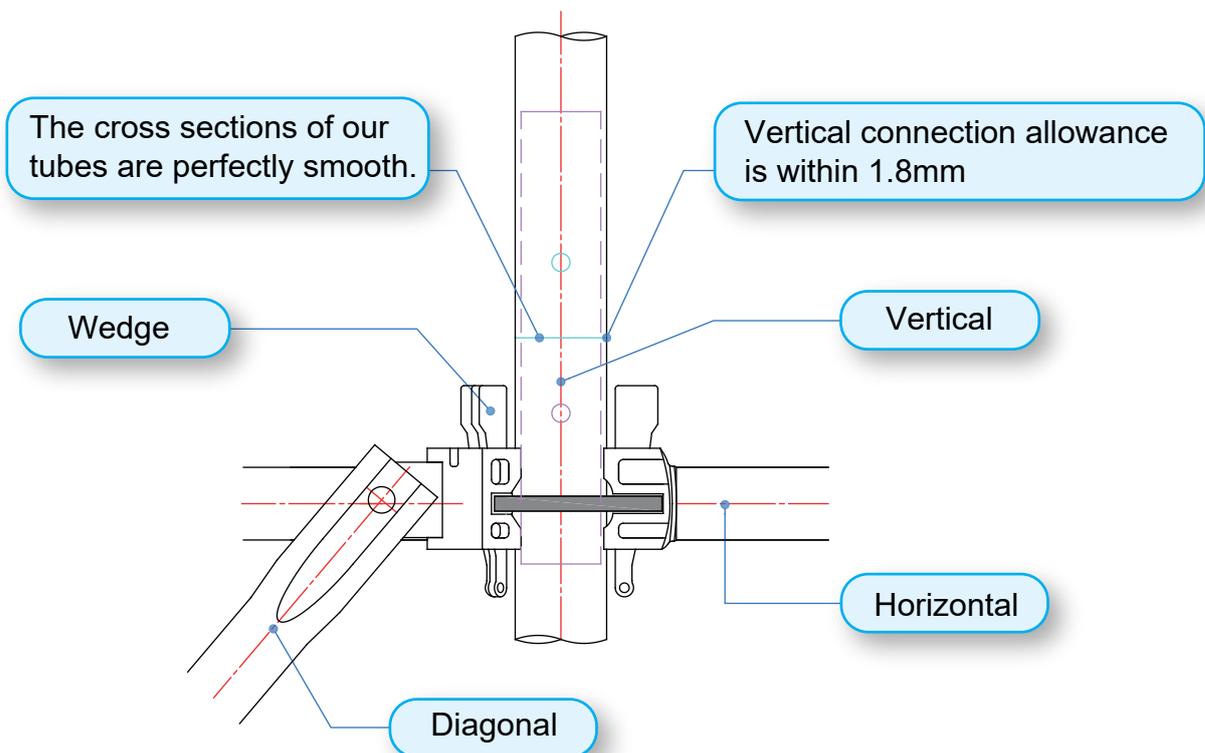
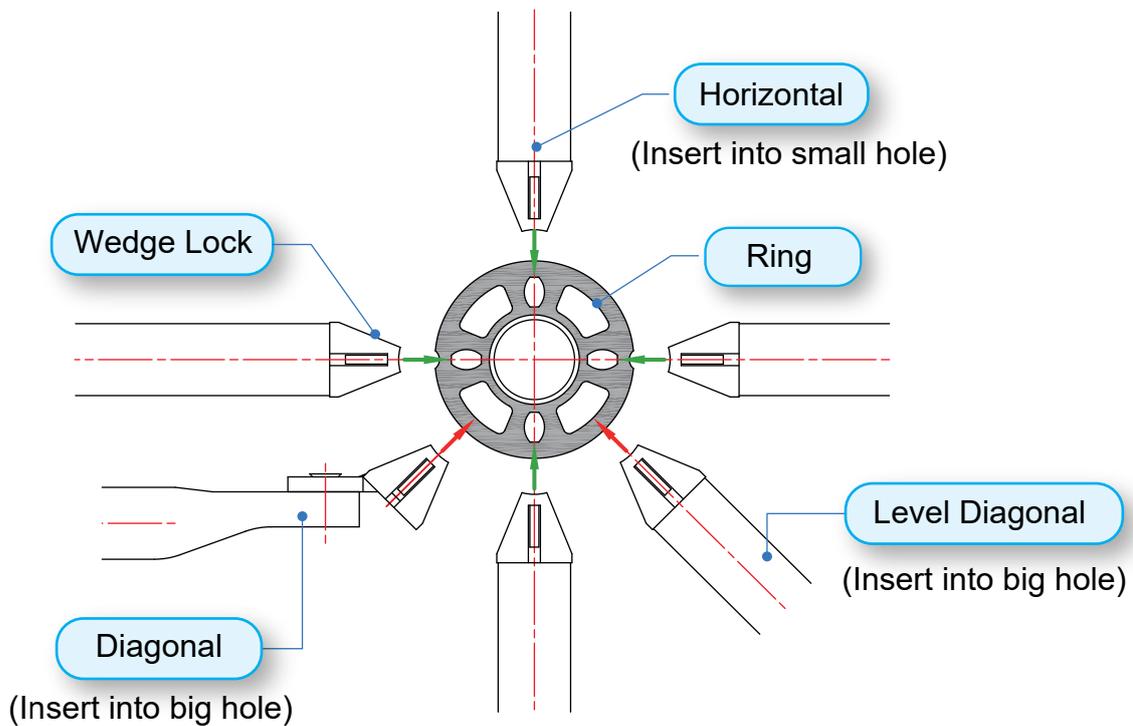


- *Ring System Scaffold can be used in different terrains and buildings.*
- *It is compatible with various formwork types (traditional formwork, formwork system or steel panels) for a consummate design.*
- *Using Sub-Verticals can easily solve the problem of height alterations.*

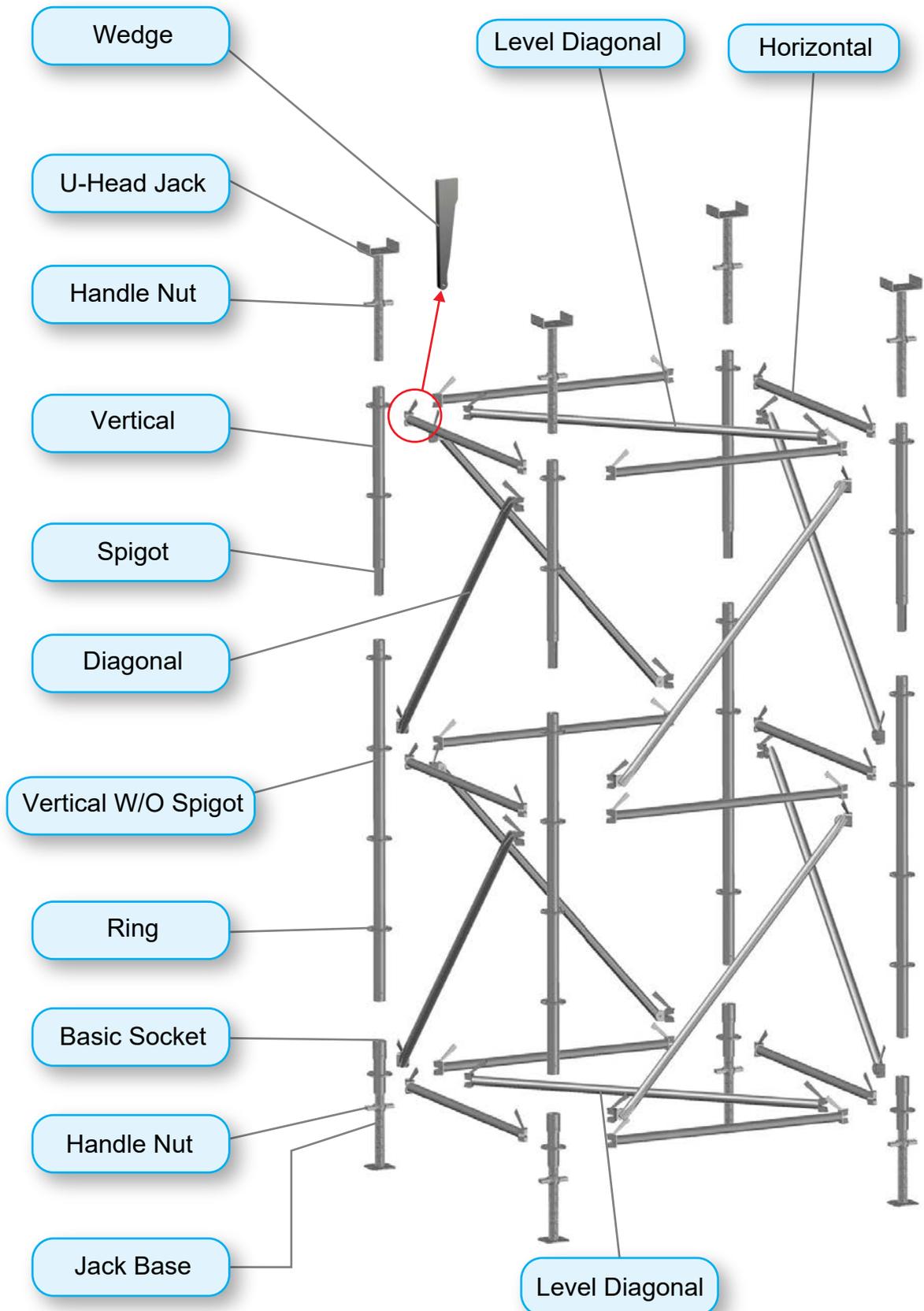


5. Connecting Techniques

- The secure connection between the wedge locks and ring optimizes the load carrying capacity.



6. Component Overview





7. Dimensions and Specifications



Jack Base J48601

U-Head Jack U48601

- To adjust the scaffold height
- Material:
Threaded Tube Q235B(≈STK400)
Handle Nut FCD450
Base Plate Q235B(≈STK400)
- Adjustable Range: 80~450mm

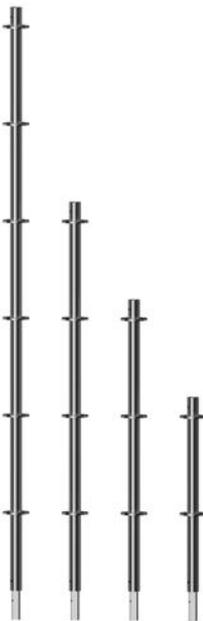
- Threaded Tube:
Ø48.2mm×600mm×t:5.0mm
- Base Plate:
140mm×140mm×t:6.0mm
- U-Head:
170mm×150mm×H:50mm×t:6.0mm



Basic Socket V62020

- Assembled with Jack Base and connected with Horizontal to steady the foundation
- Material: STK500

- Length:
200mm divided by Ring from the middle
- Pipe:
Ø60.2mm×t:3.2mm



Vertical

V61100, V61150, V61200, V61300

- Main support of the entire system connected by Spigot
- Material: STK500

Spigot

- For connecting Vertical
- Specification: Square Tube, diagonal: 52.5mm×t:3.0mm, L:300mm.
- Material: Q235B(≈STK400)

Vertical without Spigot

V60100, V60150, V60200, V60300

- Only assembled with Basic Socket.



- Length:
1.0m; 1.5m; 2.0m; 3.0m
- Pipe:
Ø60.2mm×t:3.2mm
- Distance between Rings:
500mm



Sub-Vertical

V62025, V62050

- To adjust the shoring height, especially in big alterations
- Material: STK500

- Length:
0.25m; 0.5m
- Pipe:
Ø60.2mm×t:3.2mm



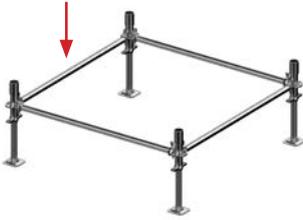
Base Vertical

- When the shoring height is very low, Jack Base and U-Head Jack can not be used at the same time. Jack Base can be replaced by Base Vertical of fixed height. To adjust the height by U-Head Jack only.
- Material: STK500

- Length: 0.35m
- Pipe: Ø60.2mm×t:3.2mm
- The minimum height is 65cm when connecting with U-Head Jack only.

Horizontal

H66060, H66090, H66120, H66150, H66180, H66240

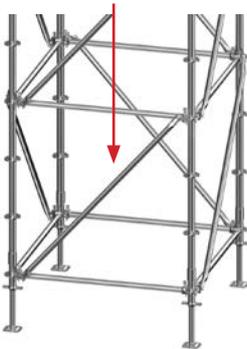


- To distribute force evenly between Verticals
- Connecting: Wedge Lock fixed on Ring
- Material: STK500

- Length: 0.6m; 0.9m; 1.2m; 1.5m; 1.8m; 2.4m; Special size can be customized
- Pipe: $\text{Ø}48.6\text{mm} \times t:2.3\text{mm}$

Diagonal

D60610, D60910, D61210, D61510, D61810, D61215, D60615, D60915, D61515, D61815, D62415

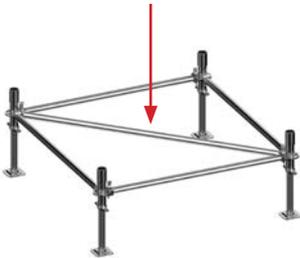


- To enhance the load-carrying capacity and keep the entire system from deformation
- Material: STK500

- Length: 0.6m×1.0m; 0.9m×1.0m; 1.2m×1.0m; 1.5m×1.0m; 1.8m×1.0m; 1.2m×1.5m; 0.6m×1.5m; 0.9m×1.5m; 1.5m×1.5m; 1.8m×1.5m; 2.4m×1.5m
- Pipe: $\text{Ø}48.6\text{mm} \times t:2.3\text{mm}$

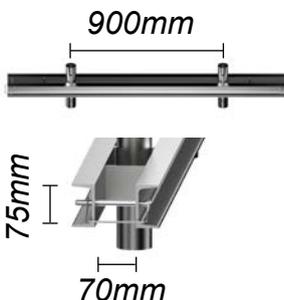
Level Diagonal

L61512, L61812, L61515, L61815, L61818, L62415



- To restrict the scaffold in a foursquare (90° at each angle), excellent steadiness for high shoring
- Material: STK500

- Length: 1.5m×1.2m; 1.5m×1.5m; 1.8m×1.2m; 1.8m×1.5m; 1.8m×1.8m; 2.4m×1.5m
- Pipe: $\text{Ø}48.6\text{mm} \times t:2.3\text{mm}$



Heavy-Duty Beam Bracket

- Put on the Ring of Vertical, used in beam and slab shoring
- Material: SS400

- Length: 1.65m
- Components: Pipe $\text{Ø}60.2 \times t:3.2\text{mm}$
Snap Pin (SL-45A)
Double C Waler 75×40×5×7mm



Movable Ring Coupler

- Applicable to special height spacing (without the welded ring) for connection

- $\text{Ø}48\text{mm}$ C50500
- $\text{Ø}60\text{mm}$ C60500
- $\text{Ø}60/48\text{mm}$ C60600

8. ANSI/ASSE A10.8 & EN 12810-1 Certified

The first scaffold manufacturer obtained EN 12810-1. Having the experience of extensive projects and EN certified product, we successfully accomplished many infrastructure projects overseas with our engineering techniques and technical support.

EN 12810-1 No. 10.16.3699 TCF



EURO CERT

Certificate No. **10.16.3699**
Date of issue **17/04/2018**
Valid from **17/04/2018**
The Certificate is valid until **16/04/2021**

STATEMENT OF COMPLIANCE

Manufacturer	Name	SUCOOT CO., LTD.
	Address	Shop 17, No.125, Sec. 7, Zhongxing Rd., Shahu Dist., Taichung City 407, Taiwan
Product Name	SCAFFOLD SYSTEM MADE BY STEEL	
Models	SCAFFOLD EN 12810-1: 10-100 TCF (10-100) (10-100) 1) 06, 09, 12, 15, 18, 21, 24 2) 06, 240 3) A, B, C	
Applicable Standards	EN 12810-1:2015, EN 12810-2:2003 Annex B EN 12811-1:2003, EN 12811-2:2004, EN 12811-3:2002 EN 12813:1:2012, EN 12813:2:2002 EN 12813:3:1/2/12/2003 EN 12813:4:1/2/12/2003 EN 12813:5:1/2/12/2003	
Test Reports	Shop Tests: EN12810-1/2/12/2003 EN12810-2/2/12/2003 EN12810-3/2/12/2003	

This is to attest that, upon the relevant request of the above-mentioned applicant, EUROCERT S.A. as Third-Party Authority, has received, archived and processed to the examination of the Technical Construction File of the above-mentioned product. The Technical Construction File has been archived at EUROCERT's records with code number **10.16.3699 TCF**

All modifications to the Technical File should be first submitted to the Third-Party Inspection Authority to ensure further validity of this statement. This statement is subject to unexpected surveillance visits by EUROCERT S.A. This statement is valid, subject to no design change and no revision of applicable standards.

On behalf of EUROCERT S.A.
Sifonia George
Director of International Markets
GEORGIOS SIFONIOS

ANSI/ASSE A10.8 No.10.16.2849 TCF



EURO CERT

Certificate No. **10.16.2849**
Date of issue **02/09/2018**
Valid from **02/09/2018**
The Certificate is valid until **02/09/2021**

STATEMENT OF COMPLIANCE

Manufacturer	Name	SUCOOT CO., LTD.
	Address	Shop 17, No.125, Sec. 7, Zhongxing Rd., Shahu Dist., Taichung City 407, Taiwan
Product Name	SCAFFOLD SYSTEM MADE BY STEEL	
Models	1) 06, 09, 12, 15, 18, 21, 24 2) 06, 240 3) A, B, C	
Applicable Standards	ANSI/ASSE A10.8-2011	
Test Reports	Load Tests: LT-2304-001, LT-2304-002, LT-2304-003 Strength Tests: ST-2304-001, ST-2304-002, ST-2304-003	

This is to attest that, upon the relevant request of the above-mentioned applicant, EUROCERT S.A. as Third-Party Authority, has received, archived and processed to the examination of the Technical Construction File of the above-mentioned product. The Technical Construction File has been archived at EUROCERT's records with code number **10.16.2849 TCF**

All modifications to the Technical File should be first submitted to the Third-Party Inspection Authority to ensure further validity of this statement. This statement is subject to unexpected surveillance visits by EUROCERT S.A. This statement is valid, subject to no design change and no revision of applicable standards.

On behalf of EUROCERT S.A.
Sifonia George
Director of International Markets
GEORGIOS SIFONIOS

ISO 9001 : 2015 No.00.12.1374



EURO CERT

Certificate Number **00.12.1374**
Date of issue **01/04/2018**
Date of next surveillance visit **01/04/2020**
Date of the certificate of the current certificate issue **01/04/2018**
The Certificate is valid until **01/04/2021**

CERTIFICATE

EUROCERT S.A. certifies that the company **SUCOOT CO., LTD.**,
17, No.125B, Sec. 4, Taiwan Blvd., Shahu Dist., Taichung City 407, Taiwan
implements a Quality Management System according to the Standard **EN ISO 9001:2015** for the following Scope of Certification:

Manufacturer of scaffolding, formwork accessories and ring system scaffold.

On behalf of EUROCERT S.A.
Sifonia George
Director of International Markets
GEORGIOS SIFONIOS

ISO 45001 : 2018 No.102TWOH



EURO CERT

Certificate No. **102TWOH**
Date of issue **21/10/2018**
Current Certification Date **21/10/2022**
The Certificate is valid until **20/10/2025**

CERTIFICATE

EUROCERT certifies that the company **SUCOOT CO., LTD.**,
Shop 17, No. 125B, Sec. 4, Taiwan Blvd., Shahu Dist., Taichung City 407, Taiwan
Shop 17, No. 125, Sec. 7, Zhongxing Rd., Shahu Dist., Taichung City, Taiwan
implements Occupational Health and Safety Management System according to the Standard **ISO 45001:2018** for the following field of application:

MANUFACTURE OF SCAFFOLDING, FORMWORK ACCESSORIES AND RING SYSTEM SCAFFOLD.

On behalf of EUROCERT S.A.
Sifonia George
Director of International Markets
GEORGIOS SIFONIOS

10. Quality Control

In addition to QC checks during manufacturing and inventory management, Sucoot implements regular load tests on random samples to ensure strength and integrity of materials.

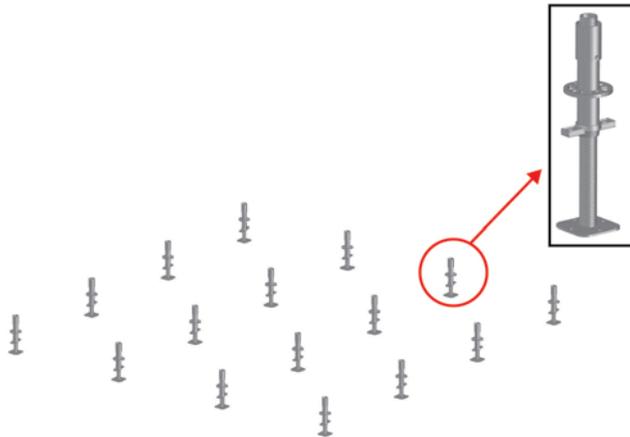


The result data is considered in our structural designs.

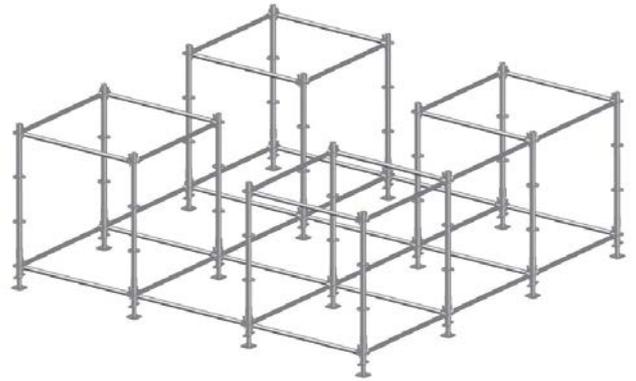


11 . Assembly Procedures

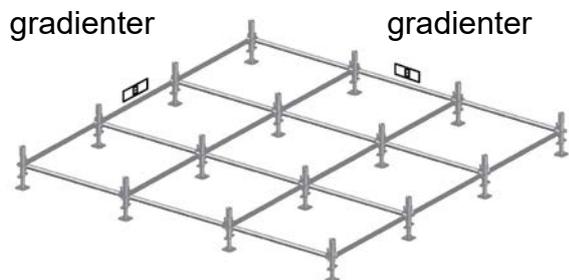
- 1 *Basic Sockets are put on Jack Base*



- 4 *The second layer of Horizontals.*

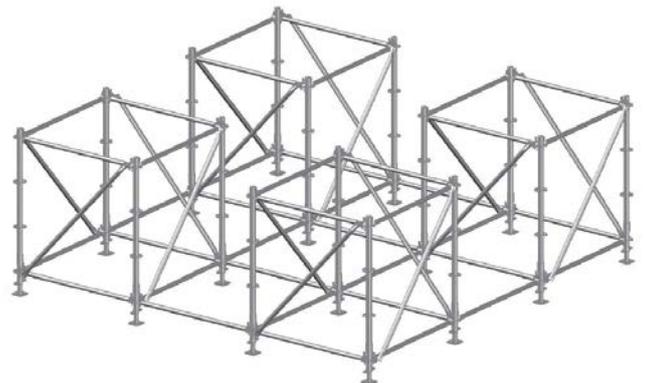


- 2 *The connection of Horizontals.*

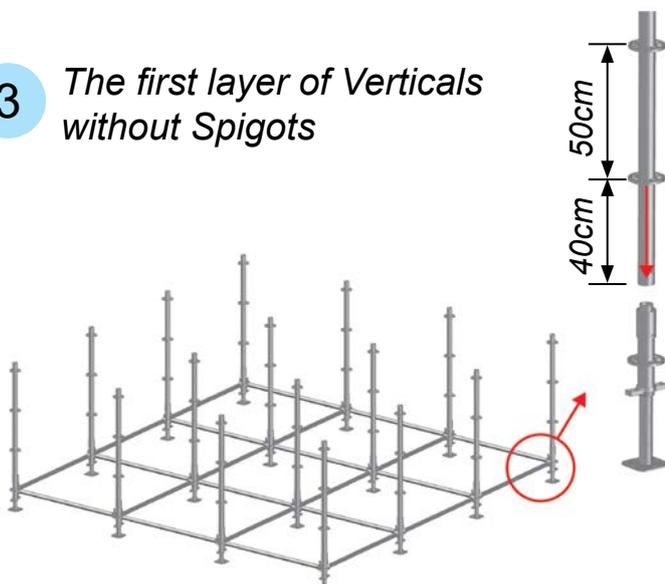


Make sure they are horizontal to the ground

- 5 *Diagonals are fixed in the same direction.*

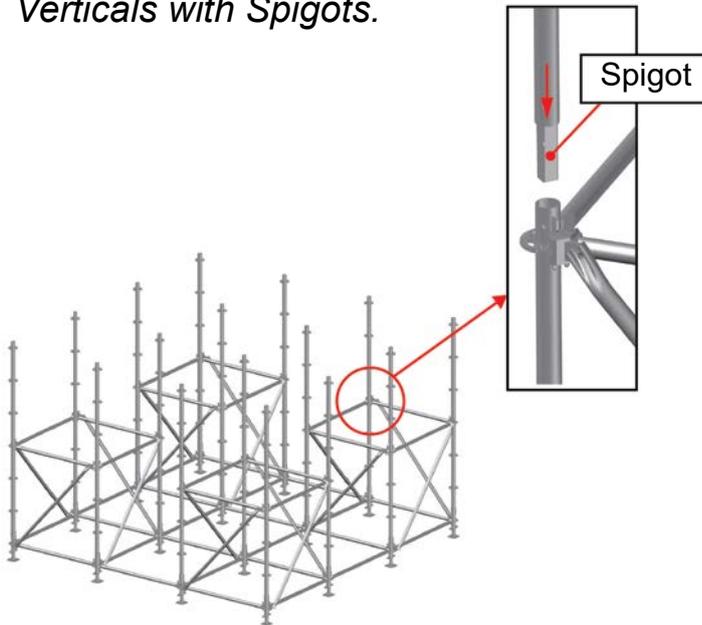


- 3 *The first layer of Verticals without Spigots*

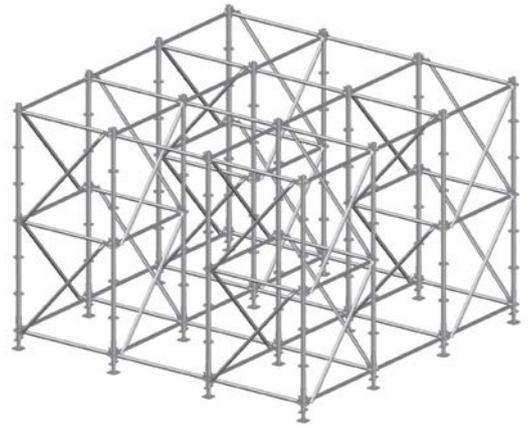




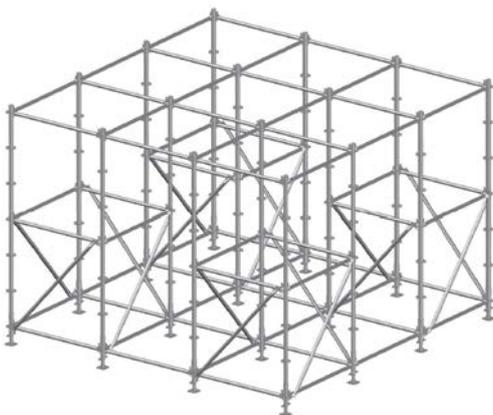
6 *The second layer of Verticals with Spigots.*



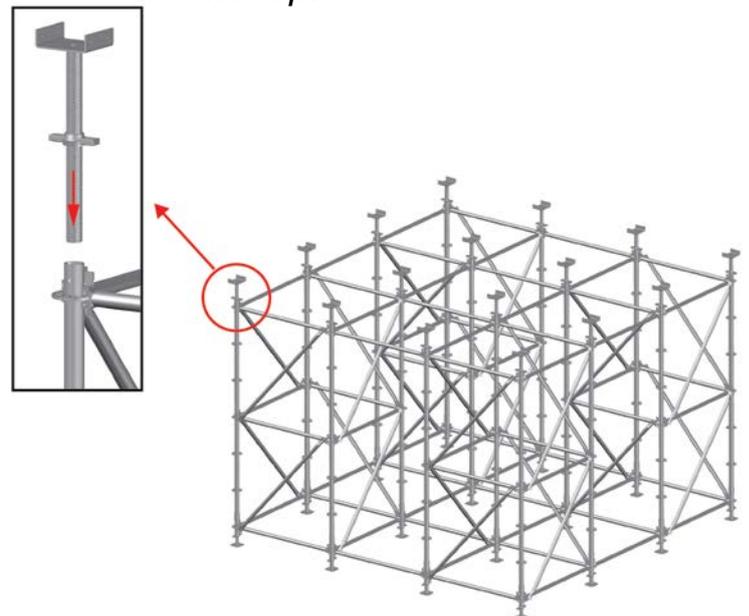
8 *The second layer of Diagonals.*



7 *The third layer of Horizontals.*



9 *U-Head Jacks are placed on the top.*



NB-Level Diagonal required only in specific situations
(i.e. high loading, crane lifted towers - to be advised by our engineers.)

12. Access Tower/Staircase

The Ring System Access Tower complies with EN 12810-1, providing a safe and convenient access staircase at construction sites.

Stair units completed with stair treads and top/bottom platforms (conversion platforms) are designed to fit with 1.5m Vertical spacing on the Ring System.

The staircase is securely locked with Succoot's special hook and wedge couplers. Internal handrails are attached to the staircase and Ring System Diagonals are used as external handrails. Each staircase weighs only 50kgs for easy erection.



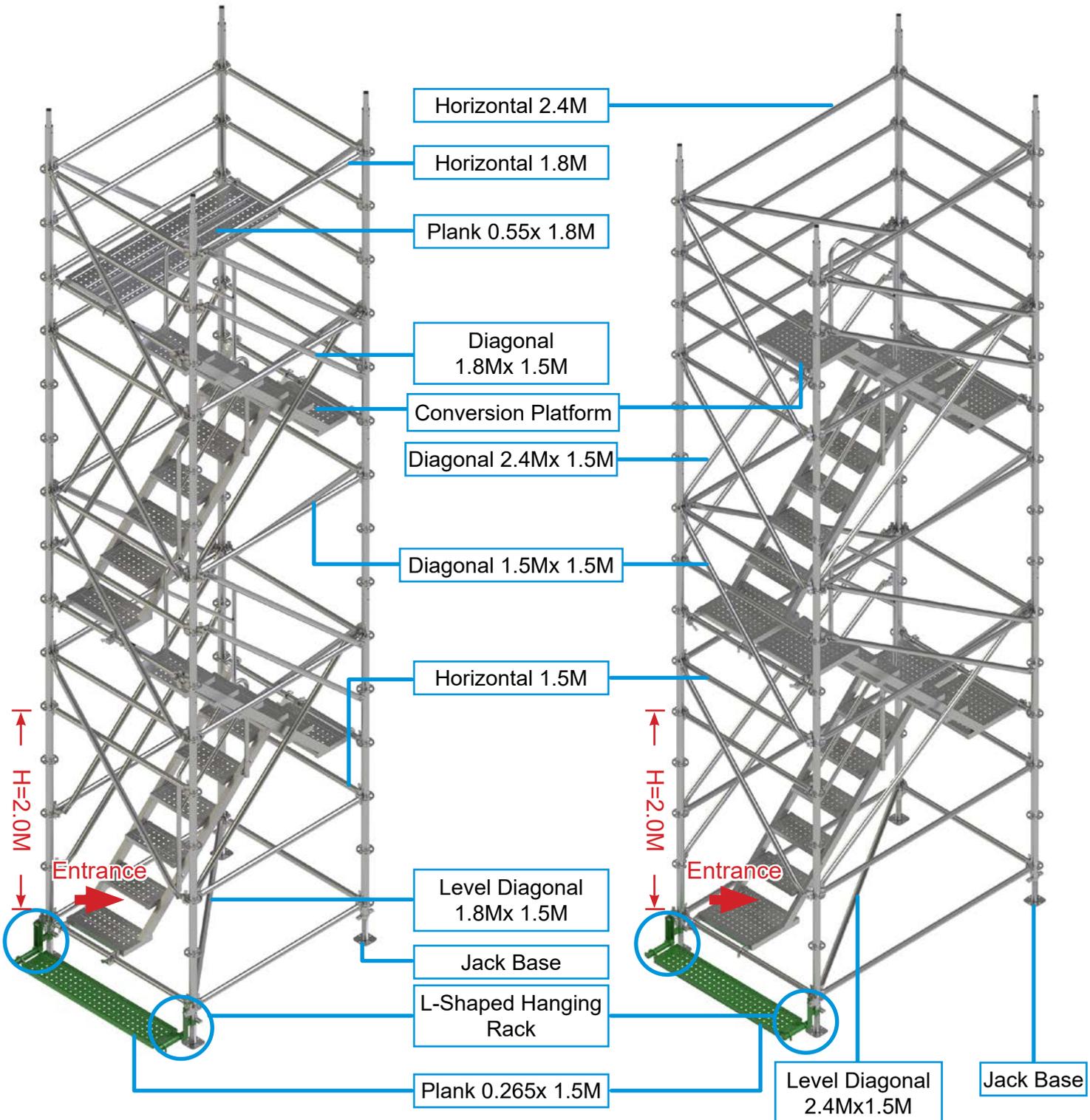
Just set the hook fixed on Horizontal and hammer the wedge tightly for a secure connection.



Not only does the Access Tower comply with the international standard, but also it is conveniently accessible and practical to maximize efficiency at site.

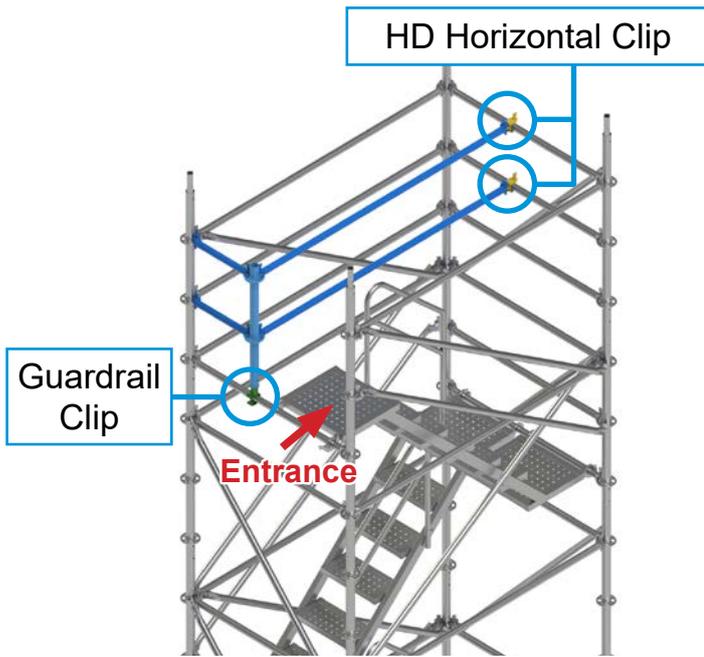
**Access Tower Option 1:
Length 1.8m x Width 1.5m**

**Access Tower Option 2:
Length 2.4m x Width 1.5m**

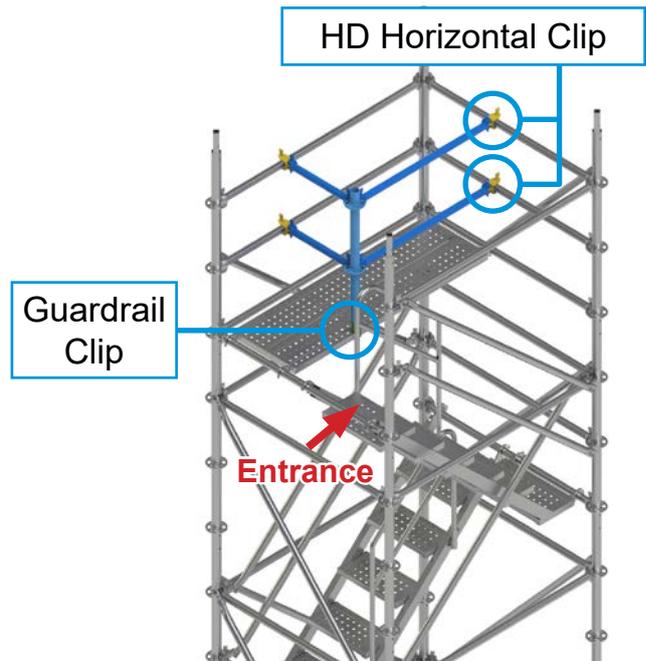


At levels requiring a safety walkway, one side of the stairway can use a Guardrail Clip with Heavy-Duty Horizontal Clip to form a guardrail. The assembly options are as follows:

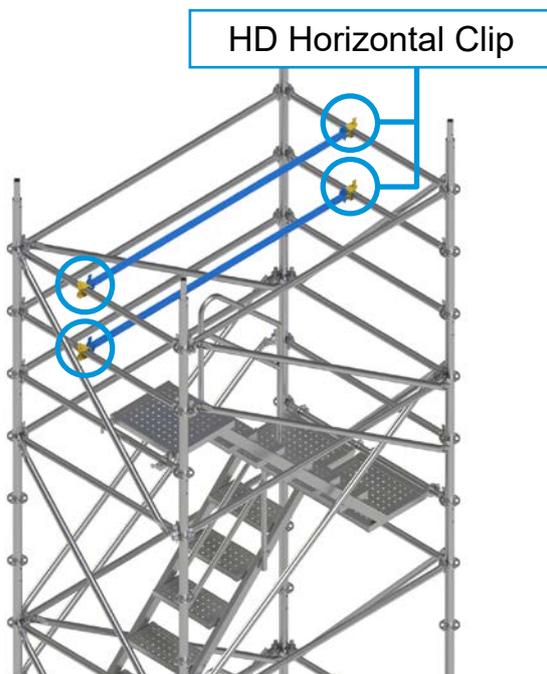
Option 1



Option 2



Option 3



Option 4

- If the first step is too high, use an L-Shaped Hanging Rack with a plank as a transition platform to reduce height difference and improve safety.





13. Heavy-Duty Aluminum Stairway

Key Features

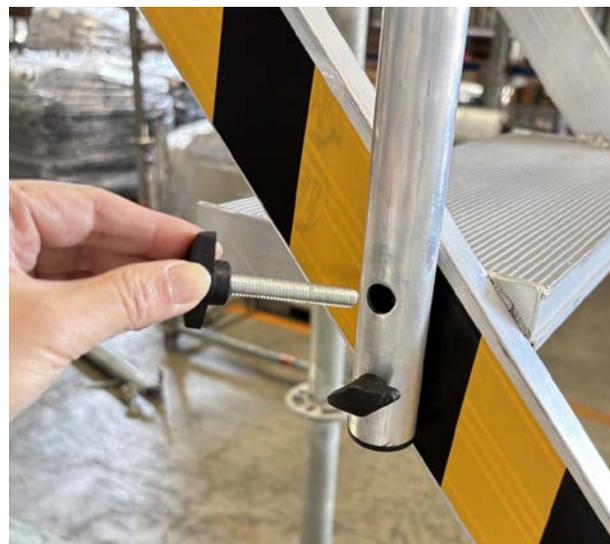
- *Lightweight Design:* Aluminum is significantly lighter than steel, making handling and relocation easier.

Safety Design

- *Anti-Slip Treads:* Stair treads feature slip-resistant patterns for safer footing.
- *Secure Hook System:* Both upper and lower hooks are equipped with anti-disengagement locks to prevent loosening caused by vibration or external force, enhancing overall safety.

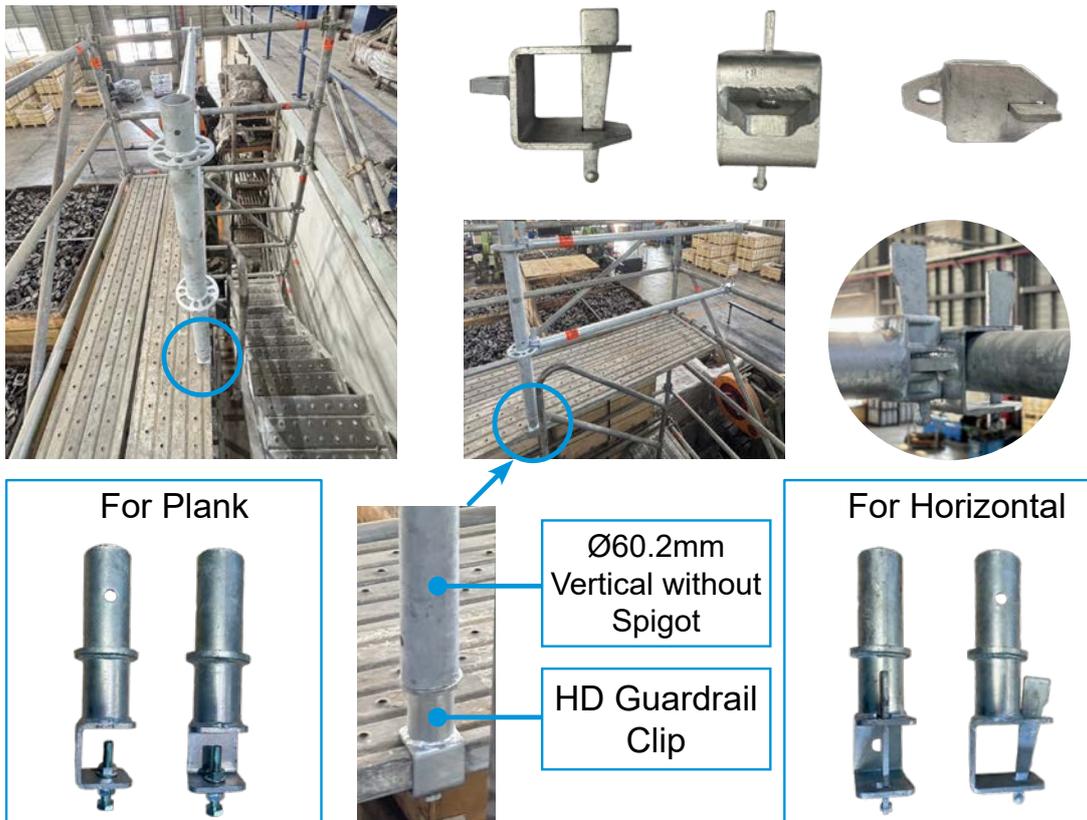
Specifications

L:1.8m×H:1.5m. Total Weight (including bolts & handrail): 16.53kg



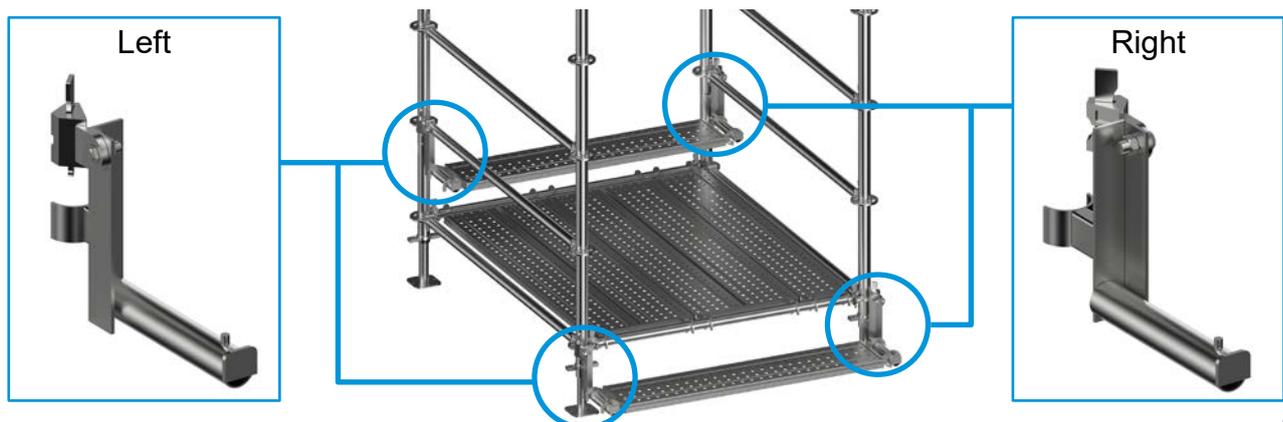
14. HD Horizontal Clip & HD Guardrail Clip

- When a platform or stairway opening requires a restricted zone or guardrail but no Ring is available for Horizontal connection, the Heavy-Duty Horizontal Clip allows the Horizontal to be fixed to surrounding tubes for fast guardrail installation.
- The Guardrail Clip is installed on the side of the Plank or on a Horizontal to provide a vertical connection point for the Verticals.



15. L-Shaped Hanging Rack

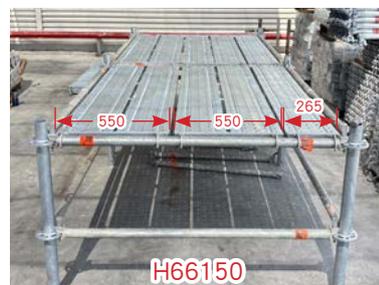
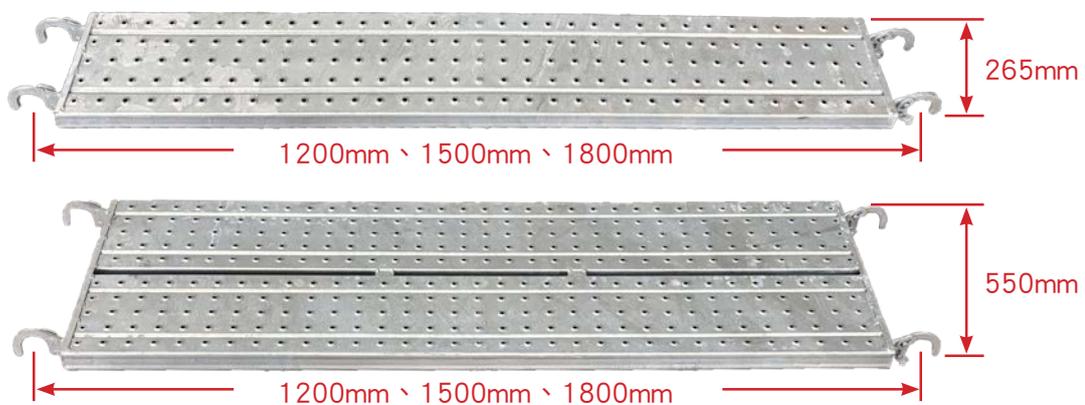
- When the Heavy-Duty Ring System is used as a platform, the 500mm Ring spacing creates a large step height. The L-Shaped Hanging Rack adds a 250mm intermediate step to ease worker access.



16. Plank & Side Plank 265mm

- Allows full Plank decking inside the shoring frame while keeping Diagonals fully installable and unobstructed. All gaps meet safety requirements.
- Side Planks are installed on the left and right of each bay, with Planks in the center, enabling continuous decking across adjacent bays on the same level.
- With Planks installed, gaps can be kept under 3cm with flush surfaces to ensure safe worker access.
- Side Plank width is 265mm, and its length matches our Plank, allowing compatible layout.

Plank



Side Plank



17. Movable Ring Coupler

Invented and developed by Sucoot for use in areas of limited height. The Movable Ring Coupler can be fixed in any position of a standard scaffold tube.



Ø48mm C50500
Ø60mm C60500

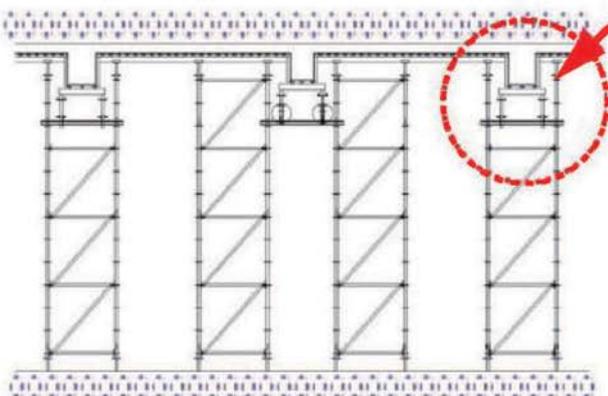
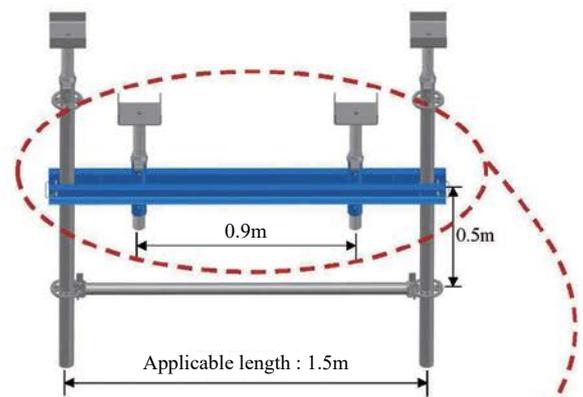


Ø60/48mm C60600

18. Heavy-Duty Beam Bracket

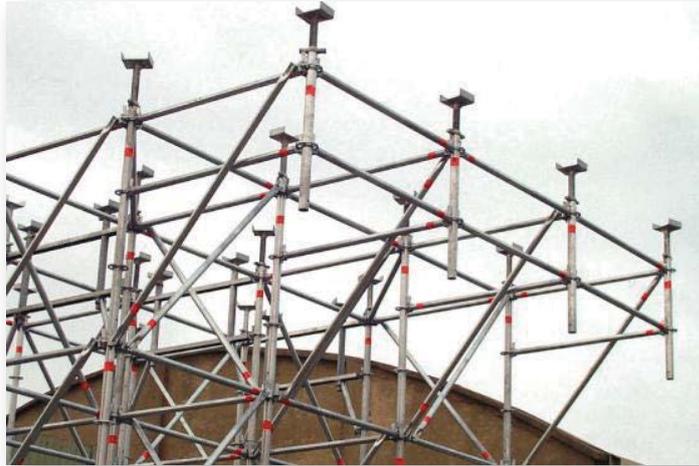
Apply to shore the roof beam formwork

- Scaffolding with the Bracket is able to shore the beam and the slab at the same time.
- The spacing between the Brackets is 1.5m and they can bear up to 90 x 120cm beam.
- Save material, time and labor cost.



19. Bracket-Cantilever/Access

- *In difficult ground conditions (without supporting verticals from the ground).*
- *To provide access around the edges of falsework scaffolding.*
- *Special concert stages-various configurations.*



20. Scaffolding Drop Device

- Auxiliary device for lowering scaffolding.
- Fix the drop device to the leg of Vertical (wedge locks respectively and tightly assembled to the first and the second ring disc at the bottom) and then cooperated with the jack for lifting operation.
- Place the jack on a flat ground, lift its main shaft to touch the pressure-bearing plate of the Drop Device, and lift it with appropriate force, to share and reduce the bearing load on handle nut. Then the handle nut can be easily loosened by hammer and further lower Jack Base.
- For safety purpose, unrestricted lifting of the jack is strictly prohibited.



21. Wheel

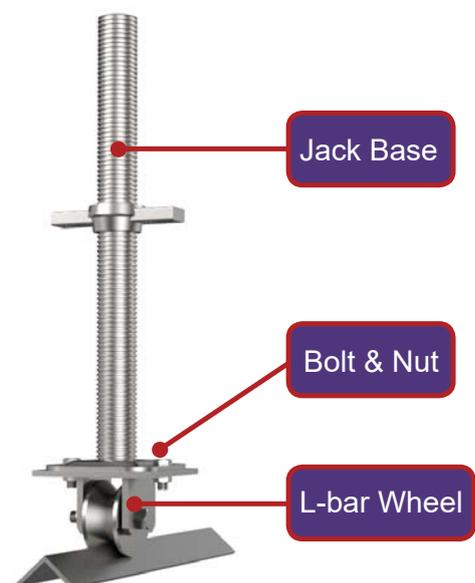
(A) Solid Wheel

- It is placed under Jack Base and used to move the complete scaffolding towers.
- In use, it is necessary to lift Jack Base first at least 75mm from the ground, and then placing the Wheel.
- After the Wheel is exactly placed under the Jack Base, to adjust the height of Jack Base according to the ground elevation and make sure that Jack Base and Wheel are tightly fitted and locked.
- Before moving, the ground should be provided with rails or appropriate limiting measures to prevent the Wheels from shifting and turning on their own.



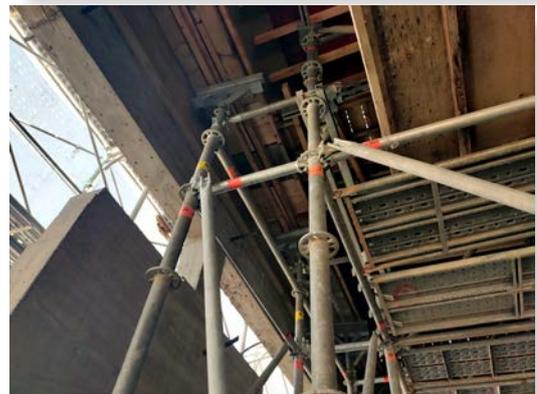
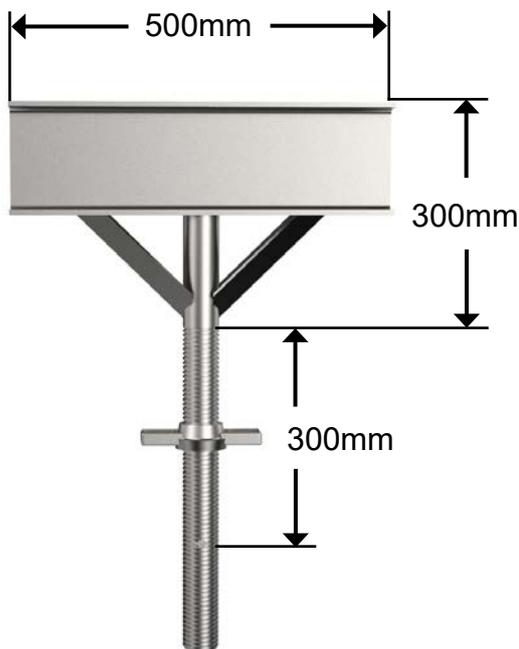
(B) L-bar Wheel

- It is placed and fixed under Jack Base.
- It is necessary to lift Jack Base first at least 160mm from the ground, and then place the Wheel.
- To lock L-bar Wheel and Jack Base by Bolt & Nut.
- It is required to lay the angle iron track to facilitate the movement of L-bar Wheel.

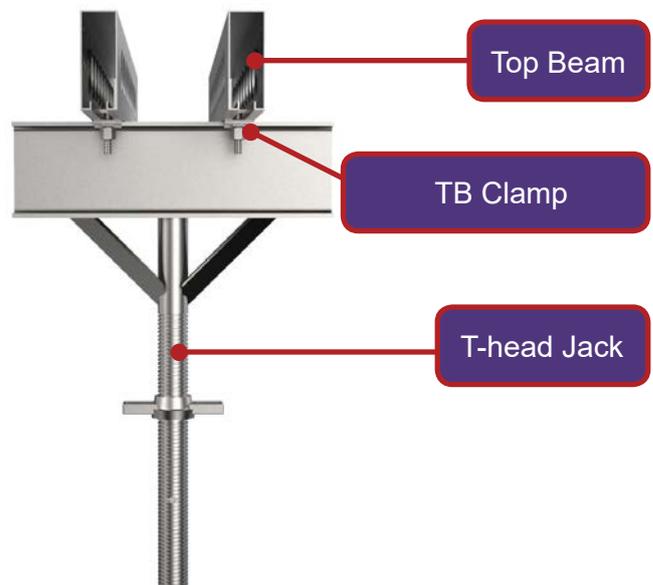
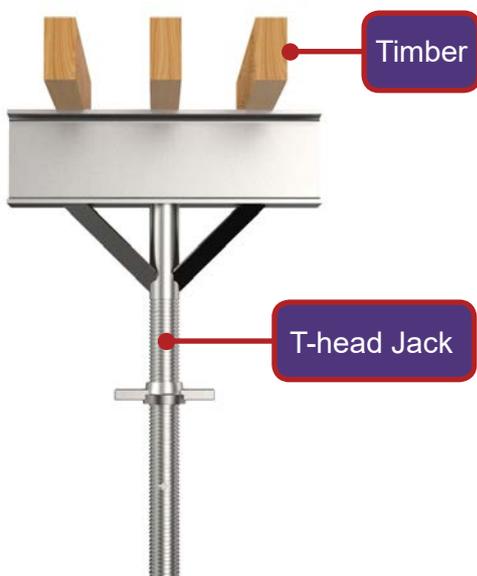


22. T-head Jack

- Used for the outermost layer of shoring scaffolding, when there is a need for support above.
- The support length is 250mm from the center of the outermost shoring system to the left and right.
- The size of H Beam is 150×75×5×7mm × L:500mm.
- Adjustable height 300mm.



● Application



23. Super Modular Shore (SMS)

- This is a variation of Ring System, and the main body is assembled with the standard components of shoring system.
- To assemble 4 Verticals forming a strong prop by Double Wedge Lock, which increases the supporting strength of the single prop by nearly 4 times, and can be used to replace the steel frame.
- The frame body can be extended horizontally and vertically by using the standard Horizontal and Vertical to increase its stability.





● Super Modular Shore (SMS) Components



Connection Unit

- Connection Method

Spigot-Up: Bolt the plate to the Jack for SMS. Insert the Ø60.2mm Basic Socket downward into the Spigot for Vertical extension.

Spigot-Down: Insert downward into the Verticals. The plate bolt holes allow connection to the main bearer or modular extension. (Refer to assembly diagram on P42)

- Steel Tube Material: STK500

Tube Length: 130mm
 Tube: Ø60.2×t:3.2mm
 Plate: 220×220×t:10mm,
 Ø18mm×4 holes
 Washer: Ø70×t:10mm
 Exposed Spigot Length: 120mm
 Spigot: Ø48.6×t:2.5mm



Locking Hook for Connection Unit

- Hook the hook end into the large hole of the Ring (Diagonal hole).
- Insert the thread end into the slotted holes of the upper and lower Connection Units, then secure with a nut.

Specification:
 Ø1/2"×L:216mm+Single-end
 Ball Screw thread
 Finish: Electroplated



HN-15ET Washer L: 30mm

- Main Purpose: With Double Wedge Locks and multiple Jack Bases, a 30mm washer creates a height offset for Handle Nut adjustment.
- Installation: Place the washer above the Handle Nut before installing the Basic Socket. (see Option 2 on P42).

Material: 20# Steel (≈ S20C)
 Specification: Ø52×30mm
 Finish: Hot-Dip Galvanized
 Used with Jack Base



Double Wedge Lock

- Main Purpose: Used to connect Verticals to increase the structural strength of frame body.
- Connection: Put Double Wedge Lock into the small holes of ring disc of the two adjacent Vertical, and fix by wedge
- Material: FCD450

Length: 90mm
 (Distance between the Vertical center 150mm)



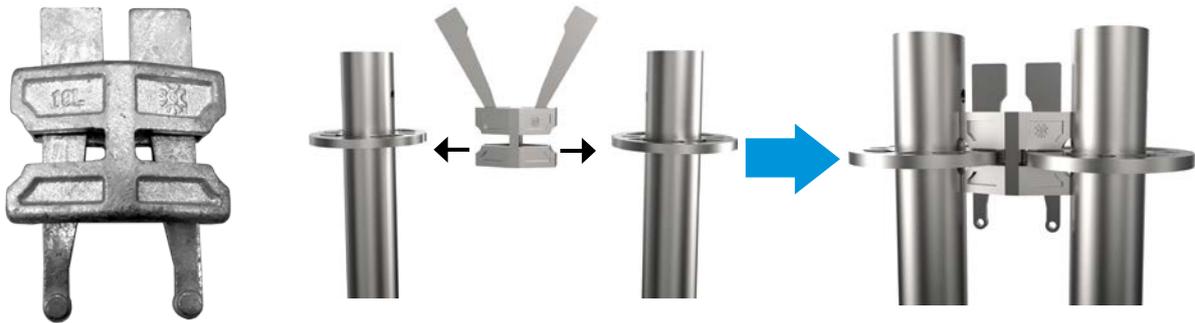
Jack for Super Modular Shore

- Main Purpose: To adjust the SMS height.
- Connection: To connect Connection Unit by bolt & nut.
- Material: Threaded Tube STKM 13A
 Handle Nut SS400
 Base Plate SS400

Base Plate: 220×220×t:10mm
 Threaded Tube: Ø78×T:12mm
 Handle: Ø32×100mm
 Adjustable: 390~520mm

● Double Wedge Lock

- Used to connect 2~4 Verticals forming a strong prop to enhance the bearing capacity.
- It is often used for the scaffolding body that needs high bearing capacity design such as limited space, suspended scaffolding or temporary passage, and the addition of guardrail posts around the working platform.
- Applied to $\varnothing 48.6\text{mm}$ and $\varnothing 60.2\text{mm}$ Vertical.



Test Report

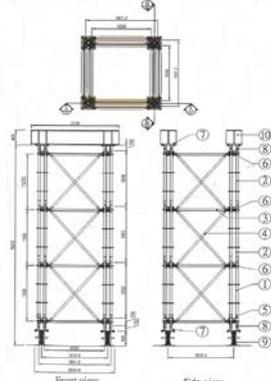
NCKU Research and Development Foundation
Engineering Technology and Material Laboratory
Department of Civil Engineering, NCKU
Testing Report Sheet

Page : 2/2

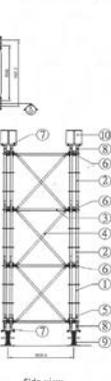
(107) No. SB0103 Date : December 20, 2018

Project : N/A Manufacturer : SUCCOOT CO., LTD.
Truster : SUCCOOT CO., LTD. Sampler : SUCCOOT CO., LTD.
Sender : SUCCOOT CO., LTD. Date Received : December 18, 2018
Sample : Super Modular Shore(SMSXW : 1.5m*L : 1.5m*H : 5.4m)

Tube Outer Diameter (mm)	Tube Thickness (mm)	Frame Dimensions (mm)		Max. Load (t)
		Plan Dimensions	Height	
60.3	3.2	1650/1650	5400	306.09



Front view



Side view



No.	Item	Material	Specification
1	Vertical W/G/Spigot	STS304	$\varnothing 60.2 \times 3.2$ mm
2	Vertical	STS304	$\varnothing 60.2 \times 3.2$ mm
3	Horizontal	STS304	$\varnothing 48.6 \times 3.2$ mm
4	Diagonal	STS304	$\varnothing 48.6 \times 3.2$ mm
5	Diagonal	STS304	$\varnothing 48.6 \times 3.2$ mm
6	Double Wedge Lock	PC3450	Fit on
7	Shut & Nut for Steel Beam	A325	$\varnothing 25 \times 90$ mm
8	Shut & Nut for Steel Beam	STS304	$\varnothing 40 \times 213$ mm
9	Jack for Super Modular Shore	SI480	$\varnothing 76.2 \times 173$ mm
10	Pin Beam	40x40x10x12x100mm	

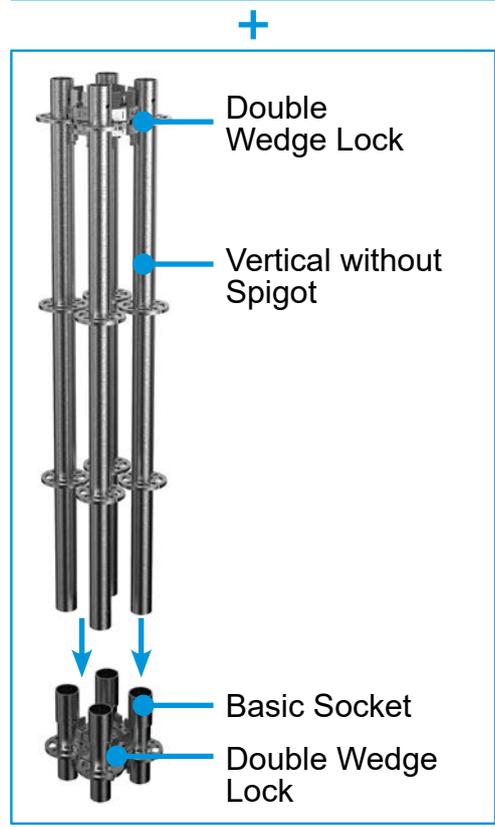
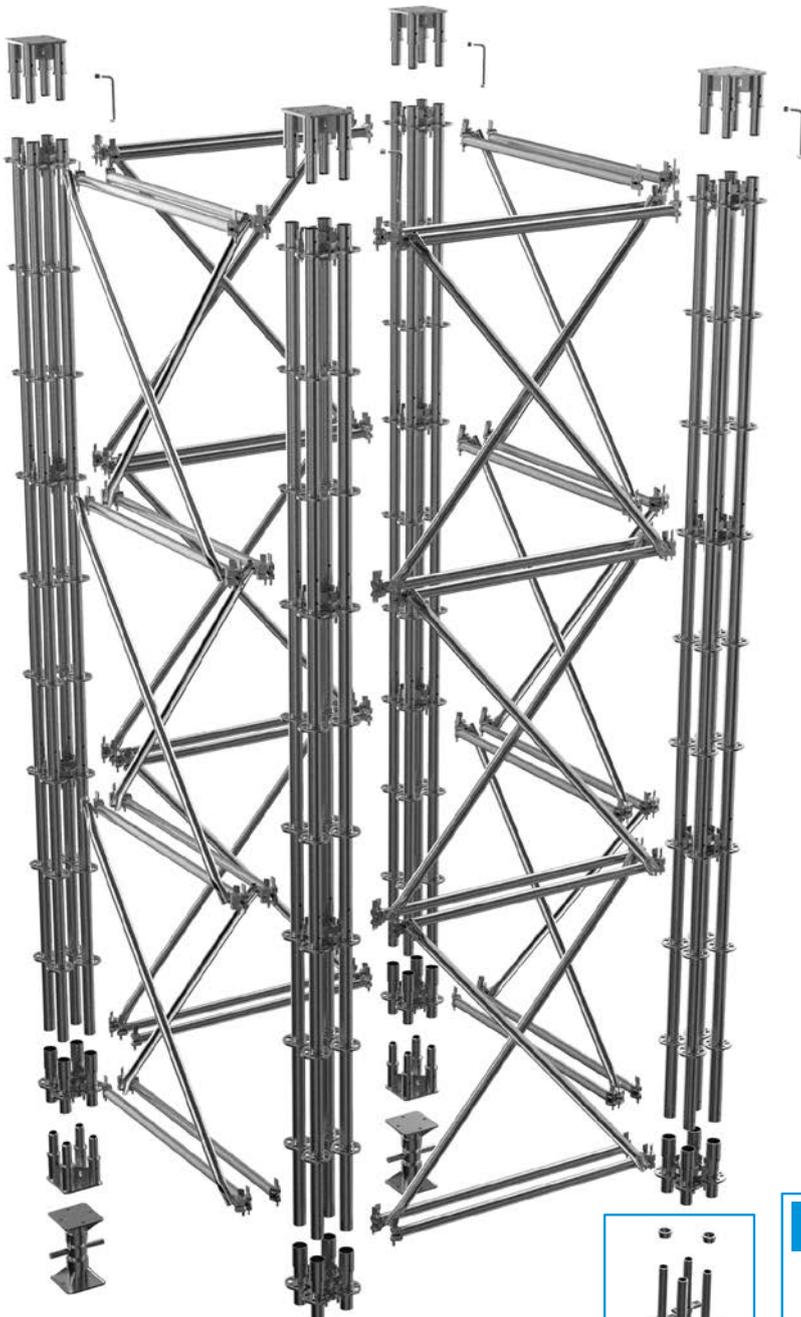
TESTING RESULTS ARE VALID ONLY FOR THE SPECIMENS PROVIDED BY THE SAMPLER ◀

Tester : Yung-Feng Lee

Test Photo



● Components Overview

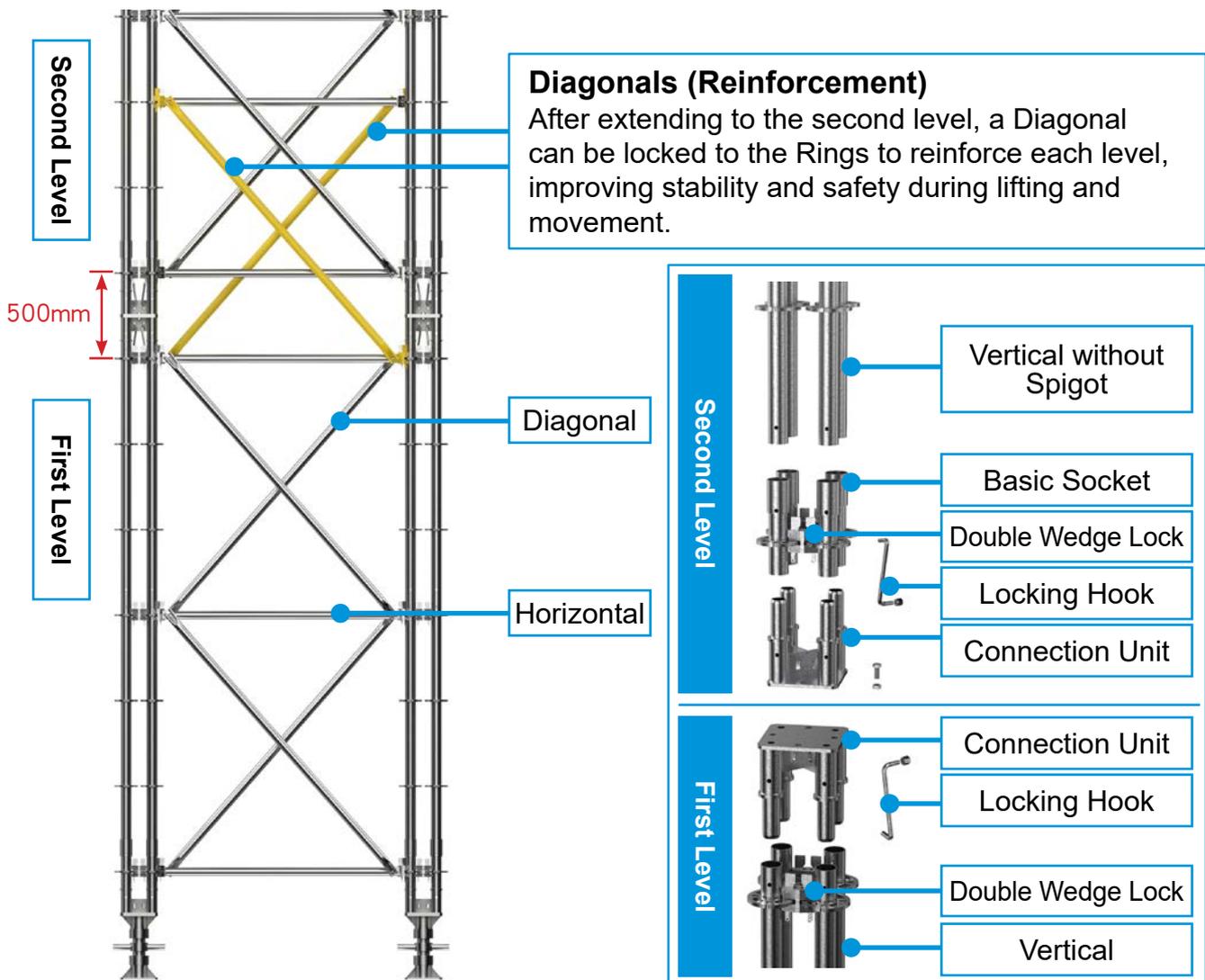


Option 1	Option 2
4 sets A325 Ø5/8" Bolts & Nuts	3cm washer allows Handle Nut adjustment.
 Connection Unit  Jack for SMS	 3cm Washer  Jack Base

● **The SMS allows modular extension by direct connection.**

The structure is extended upward by bolting the Connection Unit.

The consistent 500mm Ring spacing allows direct Diagonal installation for stability and safety.



Option 1

Connection Unit + Jack for SMS

Features

- The Connection Unit is bolted for increased stability.
- The Jack for SMS provides high strength and height adjustability.

Advantages

- Enhanced structural stability
- Suitable for ultra-heavy load applications

Option 2

Washers (L:30mm) × 2 pcs + Jack Bases (Ø48.2 × t:5.0 × L:600mm) × 4 sets

Features

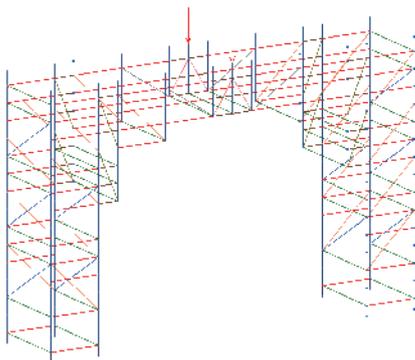
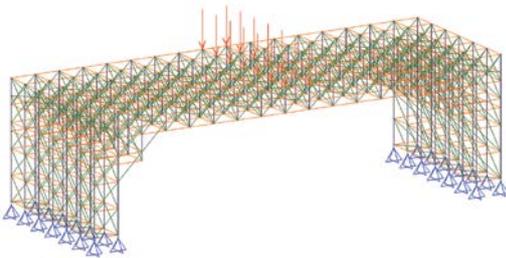
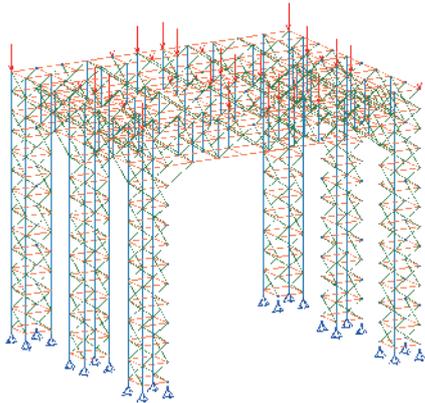
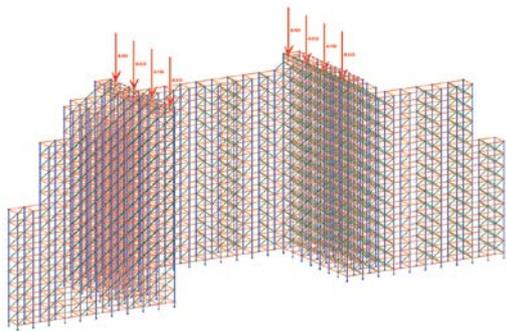
- Washers on diagonal Jack Bases enable easy height adjustment.
- Lightweight Jack Bases enable easy handling and moving.

Advantages

- Uses standardized components

24. Design

With the extensive work experience, our engineering team can provide the effective and efficient design, including full site assembly details and load calculation.



25. Conclusion

Optimal structural design and advanced construction methods are the essential factor to a project. Following are the advantages of our Ring System Scaffold :

- It can be applied in extensive range of projects.
- Applied with the advanced construction methods can save time and labor cost.
- High quality and precision scaffolding enable us to deliver an excellent performance on load-carrying capacity.

Significant projects where our Ring System Scaffold has been used:

Taiwan :

- National Freeway NO.3 – C305,C318.
- Taiwan High Speed Rail – CIP
C210,C215,C220,C280,C295, Access Tower
T210, T220, Station S220, S280, S290.
- Taipei Rapid Transit – Neihu Line, Nankung Line
CE-730A.
- Kaohsiung Rapid Transit – CR5, CR6.
- Taipei – Ilan Expressway.
- Taiwan Railway – Elevated Project (Wutu-Hsichih),
Wujih New Station.
- Hi – Tech Factory – Hsinchu, Central Taiwan &
Southern Taiwan Science Park.
- Bali-Shin Dien Expressway C801.
- Dragon Steel Corporation – Phase 2 Expansion
Project.
- Taichung Metropolis Road No. 4 – C704A, C706,
C707, C708, C709B and No. 2.
- National Freeway No.6 – C602, C604, C608,
C609.
- Taoyuan Airport Access MRT – CE02,CE03B.
- Yuanlin Township Area Elevated Railway Project –
YCL121,YCL321.
- Hualian – Taitung Electrification Project – CL312,
CL314.
- Kaohsiung Metropolitan Railway Underground
Project – CL112, CL113, CL311.
- Elevated Railway System of MRT Development in
Taichung – CCL431.
- Beimen – Yujing East – West Expressway Project
– E707-3.
- Taichung MRT - CJ910, CJ920
- Taichung High-Tech Industrial Southward Road &
Daija River Across Bridge
- Taipei MRT - Wanda Line CQ860, CQ870, CQ840,
CQ842, CQ850A
- Taoyuan MRT - Green Line GC01, GC02, GC03
- Tainan Metropolitan Railway Underground Project
– C211, C214

Other Countries :

- Thailand – Suvarnabhumi Airport, Airbus A380
Maintenance, Bridge
- Malaysia – Box Girder, Pier Cap.
- Dubai, U.A.E. – Canal Bridge.
- South Africa – Koega Bridge.
- Spain – Bridge.
- Vietnam – Mong Duong II Coal Fired Power Plant,
Pump Station.
- Congo – Building Shoring, Wall Construction.
- Colombia – Bridge.
- Philippines – Shopping Mall Project.
- Singapore – Plant Project, Access Tower for bridge.
- Australia – Shoring for Tunnel and Vault in mine.
- Indonesia – Melak Bridge at East Kalimantan,
Shoring and Formwork of Cooling Tower.
- China – Chongqing Bridge, Haikou Underground
Box Culvert
- Israel – Logistic Center with Galleries, Factory,
Bridge.
- New Zealand – Factory.
- Mexico - Access Tower for Commercial Building
- Panama - Working Platform for Containers at
Terminal



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Superior COmpany Of Taiwan

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2026/01

