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# GN50 MODULAR ALUMINIUM SCAFFOLDING SYSTEM

*Your Ultimate Choice*

PATENT NO. ZL2007 1.0031801.4



▲ Extraordinary light cantilever scaffold designed to erect on 100 floor skyscraper.



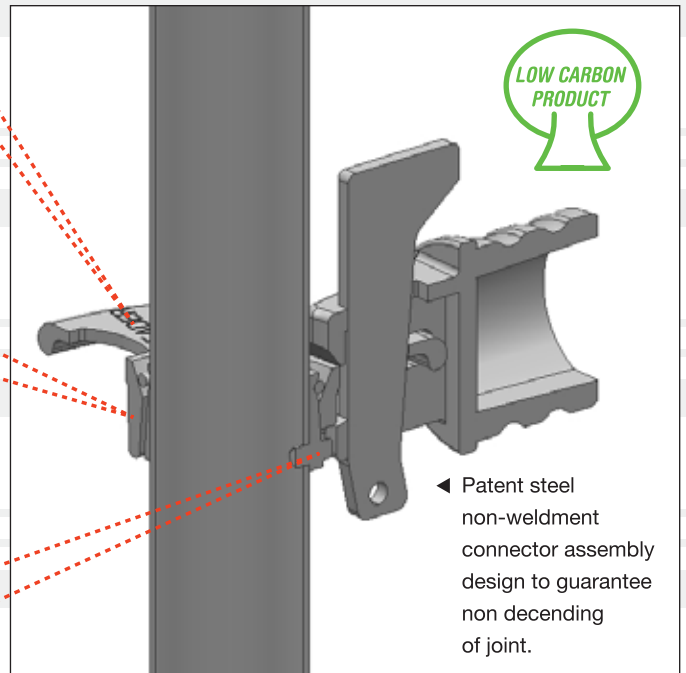
# NON WELDMENT JOINTS WITH GENIUS NON DECENDING CONNECTORS

## PATENT NON WELDMENT DESIGN

The unique patented innovative design joint which excludes the downward movement of the connectors and entirely eliminate the conventional welding method and changes the load distribution mode of traditional metal scaffold. The non weldment design minimize the electricity for manufacturing supports GN50 to be a **LOW CARBON** environmental product.

All load on the horizontal / diagonal braces are instantaneous transported to the ring connectors instead of directly onto the vertical standard. The robust ring protection enable greater load capacity and avoids any damages to the vertical standards at the connecting points due to external impact.

At the joint, the robust ring connector transfers most vertical load to the centre of the aluminium tube, giving firm and tight connection without clearance for movement.



## ALL-ROUND MULTI-DIRECTIONAL DESIGN

All-Round Multi-Directional design allows full omni functions and prominence in constructing various scaffolding with complicated construction geometry cost effectively.



▲ Exclusive Joint System in All-Round Multi-Directional Design.

## LIGHT WEIGHT COMPONENTS

All components of Leader GN50 Modular Scaffolding System are composed by light weight aluminium and cast steel and equivalent quantity of the scaffolding system is only 1/3 weight of traditional steel scaffolding, offering the scaffolding system to exclude any weight considerations and thus enable efficient erection, easy transportation and storage.



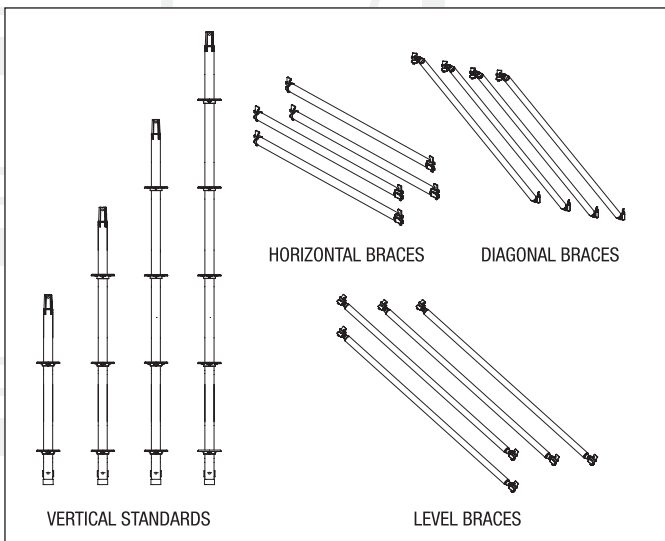
▲ Light weight aluminium components enables fast and labour saving erection of scaffolding.

## EASY MANAGEMENT DESIGN

Leader GN50 Modular Aluminium Scaffolding System is designed with fewer components, which are easy to manage, safer to assemble and dismantle providing uncountable merits with maximize performance.

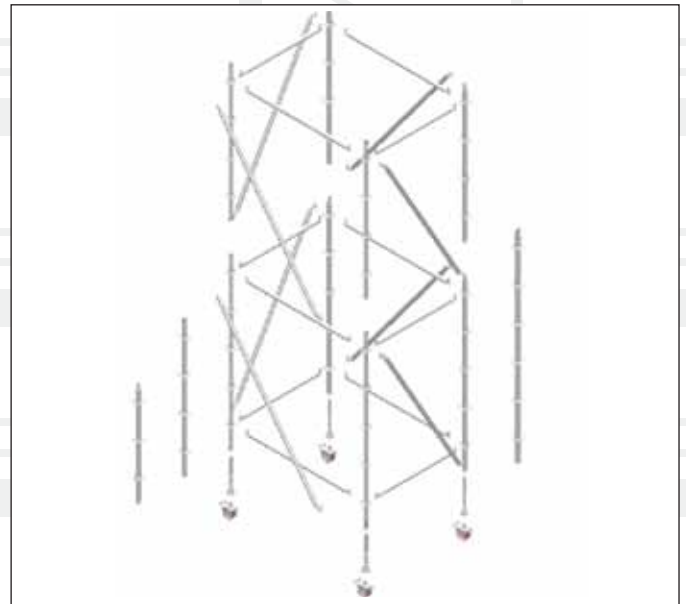
### EASY HANDLING COMPONENTS

- Only comprises four basic components: Vertical Standards, Horizontal, Diagonal and Level braces.
- High flexibility, can be designed in every height, length, width and all angles.
- All components are designed for effective, safe erection and long term usage.



### SPACE SAVING COMPONENTS

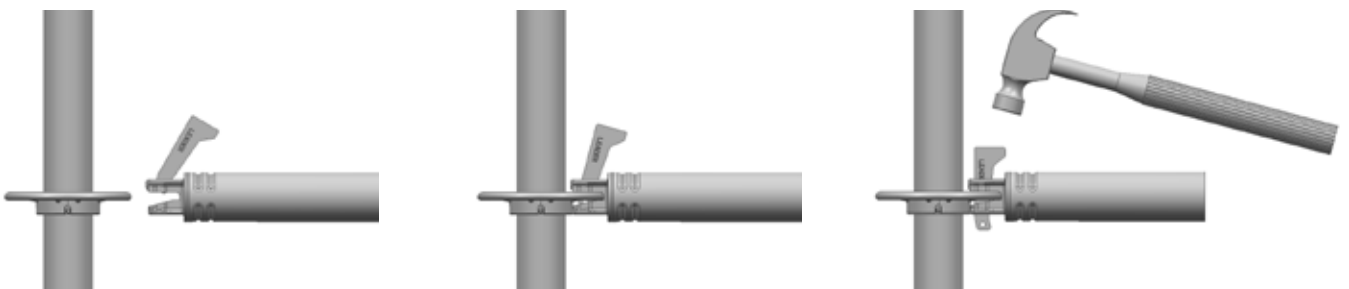
- Vertical standards, horizontal / diagonal and level braces are all in single tubular design. All components could be volume in stacks which is compact and space saving to provide the most convenient storage and transportataion.



### EFFICIENT ERECTION

Leader GN50 Modular Aluminium Scaffolding System eliminates time consuming layout procedures, speedy assemble and dismantle is ensured as the connector insert hole patterns are in right angles and precisely aligned. Connections between horizontal, diagonal, level braces and the vertical standards are designed for speedy erection:

1. Position horizontal or diagonal braces to the steel connector.
  - All-round connector accepts up to eight connections in one effective plane.
2. Horizontal and diagonal braces are fitted with a wedge housing that is pushed over the patent steel connector.
  - During erection, the wedge is positioned parallel to the horizontal. A rivet at the tip of the wedge secures it within the connection.
3. The horizontal / diagonal brace is held securely as soon as the wedge is in place.
  - In fact the wedge creates a tight connection between the steel connector and braces, even without a hammer.
  - Tapping the wedge with a hammer creates a really secure connection between the braces and the steel connector.



## MULTI-APPLICATION FOR ANY COMPLICATED CONSTRUCTION GEOMETRY

Leader GN50 Modular Aluminium Scaffolding System with its Multi-Directional design can be easily adapted to any complicated construction geometry. With its flexibility, design combinations could be infinite to suit special maintenance in different terrain working environment, such as suspending scaffolding, cantilever rack, bridging frame, curved frame and stage rack etc.

### CANTILEVER SCAFFOLD PLATFORM & PLATFORM BRIDGE

Leader GN50 Cantilever Scaffold Platform and Platform Bridge allows workers to stand on concrete position for safe maintenance work. Without employing extra special accessories, workers can easily and efficiently assemble or dismantle the cantilever scaffold platform or platform bridge. The platform bridge span can be set up to 12.5m. The scaffold platforms have safe, strong and reliable structure to enable great load capacity, which fully comply with the loading requirement of building construction.

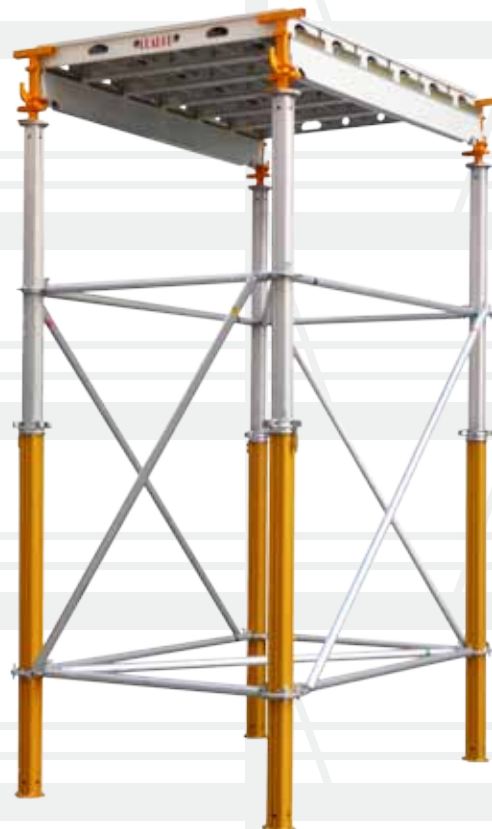


### CONJUNCTION WITH PATENT LEADER ALUMINIUM SHORING & PANEL SLAB FORMWORK SYSTEM

Leader GN50 Modular Aluminium Scaffolding System with outstanding load capacity could adapt to any kind of constructional engineering, it can be used in conjunction with Leader Aluminium Shoring and Panel Slab Formwork System. This combination has a high capacity up to 90kN, which is beyond the other aluminum scaffolding system's ability.



▲ GN50 Vertical Standards (thick wall > 3.2mm) could be used as light duties Aluminium Props and in conjunction with Leader Aluminium Panel Slab Formwork System.

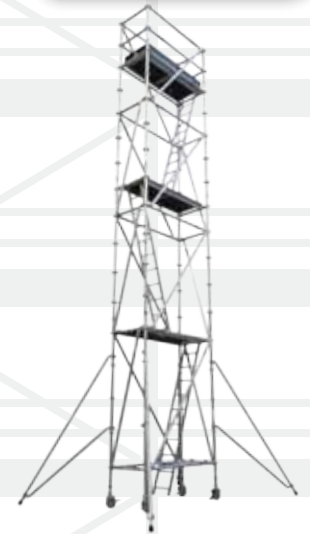


▲ Scaffold fit in with Leader Aluminium Shoring and Panel Slab Formwork System for heavy duties.

# ALUMINIUM MOBILE SCAFFOLD TOWERS



Leader GN50 Aluminium Mobile Scaffold Towers are compliant with EN1004 : 2004 and have been awarded the GS Certification by TUV Rheinland.



## SINGLE WIDTH TOWER

- Suitable for working in limited Space.
- Option to be equipped with vertical or incline ladders and clip on ladders.

### DIMENSIONS

Width: 0.85m

Length: 1.8m / 2.0m / 2.5m / 3.0m

Working Height (m)	4.1	4.6	5.1	6.1	6.6	7.1	7.6	8.2	8.7	9.2	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7
Platform Height (m)	2.1	2.6	3.1	4.1	4.6	5.1	5.6	6.2	6.7	7.2	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7

## DOUBLE WIDTH TOWER

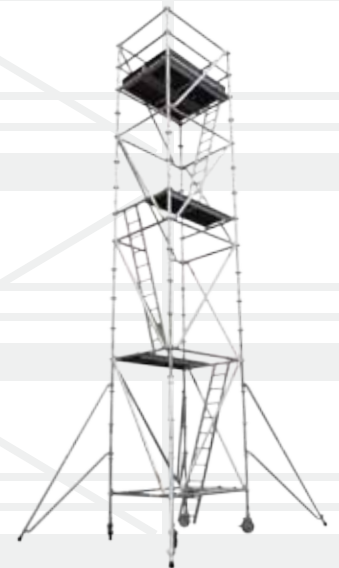
- Provide more stable, wider and comfortable working space for the users.
- Option to be equipped with vertical or incline ladders and clip on ladders.

### DIMENSIONS

Width: 1.45m

Length: 1.8m / 2.0m / 2.5m / 3.0m

Working Height (m)	4.1	4.6	5.1	6.1	6.6	7.1	7.6	8.2	8.7	9.2	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7
Platform Height (m)	2.1	2.6	3.1	4.1	4.6	5.1	5.6	6.2	6.7	7.2	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7



## STAIRWAY TOWER

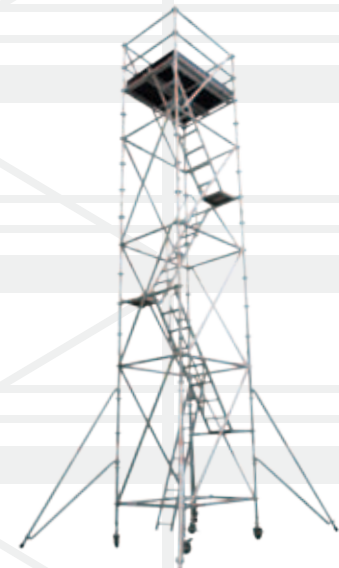
- Equipped with stairway ladder and handrail, safe for climbing.

### DIMENSIONS

Width: 1.45m

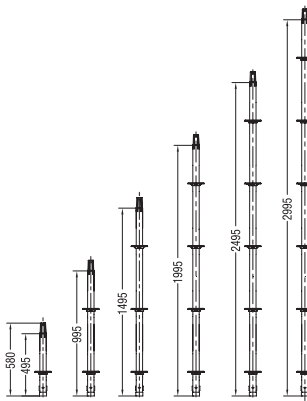
Length: 1.8m / 2.0m / 2.5m / 3.0m

Working Height (m)	4.1	4.6	5.1	6.1	6.6	7.1	7.6	8.2	8.7	9.2	10.2	10.7	11.2	11.7	12.2	12.7	13.2	13.7
Platform Height (m)	2.1	2.6	3.1	4.1	4.6	5.1	5.6	6.2	6.7	7.2	8.2	8.7	9.2	9.7	10.2	10.7	11.2	11.7



# BASIC COMPONENTS, SPECIFICATIONS & ACCESSORIES

## VERTICAL STANDARDS

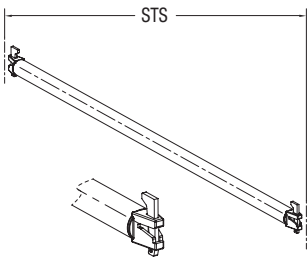


Rung to rung 500mm.  
Tube diameter :  $\phi 50.8 \times 1.8\text{mm}$

Code	Length	Weight	Code No.
VS1	0.5m	1.0kg	2 01 0501
VS2	1.0m	1.8kg	2 01 0502
VS3	1.5m	2.6kg	2 01 0503
VS4	2.0m	3.4kg	2 01 2004
VS5	2.5m	4.2kg	2 01 2505
VS6	3.0m	5.1kg	2 01 3006

Optional Tube available for higher loading  $\phi 48.3 \times 3.2\text{mm}$  /  $\phi 48.3 \times 4.0\text{mm}$  /  $\phi 50.8 \times 3.2\text{mm}$

## HORIZONTAL BRACES

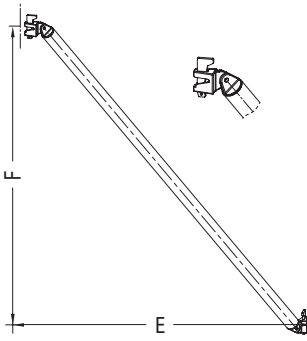


Special dimensions available  
Tube diameter :  $\phi 50.8 \times 1.8\text{mm}$

Code	STS	Weight	Code No.
HB0106	0.69m	1.3kg	2 02 0106
HB0112	1.29m	1.7kg	2 02 0112
HB0216	1.64m	2.1kg	2 02 0216
HB0220	2.0m	2.5kg	2 02 0220
HB0225	2.5m	2.9kg	2 02 0225
HB0230	3.0m	3.3kg	2 02 0230

Optional tube available for higher loading  $\phi 48.3 \times 3.2\text{mm}$  /  $\phi 48.3 \times 4.0\text{mm}$  /  $\phi 50.8 \times 3.2\text{mm}$

## DIAGONAL BRACES

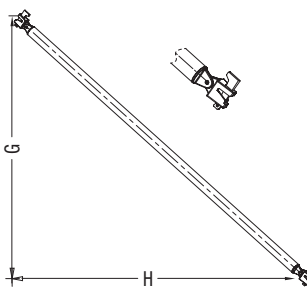


Special dimensions available  
Tube diameter :  $\phi 50.8 \times 1.8$

Code	Size (ExF)	Weight	Code No.
DB2006	0.69 x 2.0m	2.6kg	2 03 2006
DB2012	1.29 x 2.0m	2.7kg	2 03 2012
DB2016	1.64 x 2.0m	2.8kg	2 03 2016
DB2020	2.0 x 2.0m	3.2kg	2 03 2020
DB2025	2.50 x 2.0m	3.4kg	2 03 2025
DB2030	3.0 x 2.0m	3.7kg	2 03 2030

Optional Tube available for higher loading  $\phi 48.3 \times 3.2\text{mm}$  /  $\phi 48.3 \times 4.0\text{mm}$  /  $\phi 50.8 \times 3.2\text{mm}$

## LEVEL BRACES

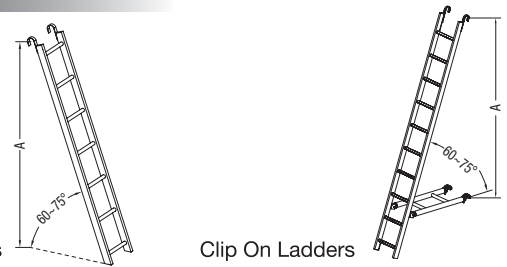


Special dimensions available  
Tube diameter :  $\phi 50.8 \times 1.8\text{mm}$

Code	Size (GxH)	Weight	Code No.
LB0616	0.69 x 1.29m	2.2kg	2 04 0616
LB1216	1.29 x 1.64m	2.4kg	2 04 1216
LB0620	0.69 x 2.0m	2.6kg	2 04 0620
LB0625	0.69 x 2.5m	2.8kg	2 04 0625
LB0630	0.69 x 3.0m	3.0kg	2 04 0630

Optional Tube available for higher loading  $\phi 48.3 \times 3.2$  /  $\phi 48.3 \times 4.0\text{mm}$  /  $\phi 50.8 \times 3.2\text{mm}$

## LADDERS

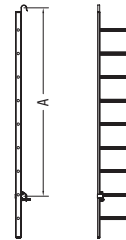


Incline Ladders

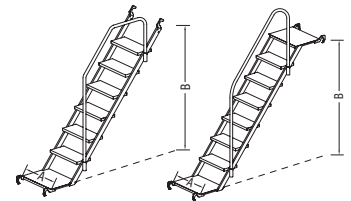
Clip On Ladders

Code	Length	Weight	Code No.
IL15	1.0m	4.5kg	2 13 0315
IL20	1.5m	6.0kg	2 13 0320
IL25	2.0m	7.5kg	2 13 0325
IL30	2.5m	9.0kg	2 13 0330

Code	Length	Weight	Code No.
CL3	1.0m	5.4kg	2 15 0310
CL4	1.5m	6.4kg	2 15 0315
CL5	2.0m	7.5kg	2 15 0320
CL6	2.5m	8.6kg	2 15 0325



Vertical Ladders



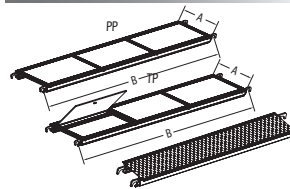
Stairway Ladders

Code	Length	Weight	Code No.
VL10	1.0m	3.2kg	2 12 0310
VL15	1.5m	4.8kg	2 12 0315
VL20	2.0m	6.4kg	2 12 0320
VL25	2.5m	8.0kg	2 12 0325

Code	Length (AxB)	Weight	Code No.
SW15	0.5x1.5m	10kg	2 14 0515
SW20	0.5x2.0m	11.8kg	2 14 0520
SW25	0.5x2.5m	12.6kg	2 14 0525

\*All Ladders available in custom made special dimensions.

## PLATFORMS

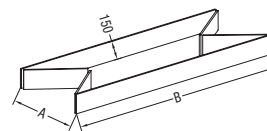


Plain / Trapdoor platform

Code	Size (ExF)	Weight	Code No.
PP1206	0.6 x 1.29m	9.1kg	2 05 1206
PP1606	0.6 x 1.64m	11.3kg	2 05 1606
PP2006	0.6 x 2.0m	13.9kg	2 05 2006
PP2506	0.6 x 2.5m	17.0kg	2 05 2506
PP3006	0.6 x 2.0m	20.6kg	2 05 3006

\*Optional Aluminium Platforms

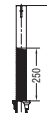
## ACCESSORIES



Toe Boards (Hinge Type)

Code	Size (AxB)	Weight	Code No.
TSB	0.69 x 1.64m	7.6kg	2 11 0616
TWB	1.29 x 1.64m	8.1kg	2 11 1216

\*Optional Aluminium Toeboards



Adjustable Leg



Castor



Base Plate



U Clip



Spring Clip

Code	ALS	CT6	CT8	BP	UJ	SSB
Code No.	2 06 0628	2 09 0015	2 09 0020	2 07 0640	2 08 0640	21 6 0026

Stabilizers



STAB1



STAB2



STAB3



STAB4

\*Platforms & Toeboards available in custom made special dimensions.

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Unit D, 1/F., Fung Yip Ind. Bldg. 170 Wai Yip St., Kwun Tong, Kowloon, H.K.  
Tel: (852) 2744 2111 Fax: (852) 2796 2882  
info@avion.com.hk [www.avion.com.hk](http://www.avion.com.hk)

FACTORY :

**LEADER**  **易達** | **廣州藝達**  
**GUANGZHOU LEADER EQUIPMENT LTD.**

Tan Bu Industrial Park, Tan Bu, Hua Du Qu,  
Guangzhou, Post Code 510820, China  
Tel: (86) 20-8674 7299 Fax: (86) 20-8674 1177 [www.leaderlift.cn](http://www.leaderlift.cn)