



# SCAFFOLDING ERECTION & DISMANTLING MANUAL

**SHAHID**  
Industries



# ABOUT US

## COMPANY PROFILE

Shahid Hussan Scaffolding Industries is the leading manufacturer and supplier of scaffoldings in the construction sector. We are a renowned firm with the most efficient result driven methods.

We offer a wide range of products, including Aluminum Scaffolding, Steel Scaffolding, Formwork and Shuttering Service, Building materials and Safety Items, etc. The quality of our products and services have made us attain a place in the market. We have a professional team of sales and service engineer who are there to understand your requirement and provide you with the best possible solution according to your requirement.

Not every customer needs scaffolding for lifetime, that's why, we offer rental services too. We give aluminum mobile tower on rental basis. If the requirement is for few days, or months, don't worry, you can hire the products on temporary basis. Also we provide erection and dismantling facility also.

Our products are manufactured professionally with utmost supervision to produce best quality solutions. We understand your needs that is why, we have a professional team of design and sales engineers to provide you the best possible solutions. Our products are of good quality, durable, mobile, easily accessible and highly affordable. We also provide transportation services for the product delivery. You can order the product and can receive it at the desirable site.

If you require the material on urgent basis, at odd times, do not worry, our plant is open 24x7 to serve our customers well. We have transformed ourselves in last few years. Furthermore, we are a customer driven company now. With the outstanding products, services and customer treatment, we believe in turning customers' dreams into reality. We are a global firm with services all around. We deliver our scaffolding services in Oman, Saudi Arabia, Qatar, Bahrain, Kuwait, Iraq, Dubai, Sharjah etc.

## OUR MISSION

Our mission is to manufacture the high quality scaffold material to give best experience to our customers. We have a well-qualified and professional team of design & sales engineers to find the most suitable solutions to your requirements so that every customer would be a repeat customer.

## OUR VISION

Our vision lies in making a difference with a different perspective. We aim not only to become a global company but also set the standard of quality, safety and customer satisfaction in the market.





# Why SHAHIDIND?

## **QUALILTY CHECKED**

All the products are quality checked before dispatch.

## **SAFETY CERTIFIED**

All the products are safety certified by top certification organizations of the world.

## **WARRANTY**

We give 5 years of manufacturing warranty on our products.

## **UNBEATABLE PRICES**

As we are the manufacturers you can get the best quality material at good prices. No need to get any third-party in the deal.

## **DELIVERY IN PAN UAE**

We deliver all our materials maximum within three working days at your desirable site. So there is no issue if you want the material at your site.

## **FREE TECHNICAL ASSISTANCE**

You can call us at our number to get free technical assistance by our sales engineers if you are not sure with the material specifications.

## **SHORTER LEAD TIMES**

Our manufacturing is always open. Our team is working 24x7 to produce the best quality material.

## **CUSTOMISED PRODUCTS AVAILABLE**

We understand sometimes the requirement demands special sizes of the scaffolding. We provide customized products on demand.

## **RELIABLE & COST EFFECTIVE**

All the products manufactured in our plant are cost-effective. The best material quality gives higher load capacity.



# Scaffolding Safety

*A scaffold shall be erected, altered and dismantled by or under the direct supervision of qualified workers. Employers shall ensure that scaffolds used by workers are in safe condition, regardless of who erected the scaffolds. A qualified worker means being knowledgeable of the work, the hazards involved and means to control the hazards, by reason of education, training, experience or combination of them.*

- *Always check that the scaffolds are in safe condition prior to use.*
- *Planks, decks and guardrails are installed and secure.*
- *Use a rope to move materials to upper level.*
- *Install diagonal braces at required levels and make sure ties are secure.*
- *Check that base is levelled and adjusted.*
- *Do not carry materials while climbing.*
- *Do not climb or stand on diagonal brace and guardrails.*
- *Do not work on scaffolding during storm or high winds.*



## Checklist-Scaffolding Erection

- ✓ *Ensure that all the braces are locked securely.*
- ✓ *Check all the components before erection.*
- ✓ *Inspect the stability of the tower before using it.*
- ✓ *Check that all the castor wheels are properly adjusted.*
- ✓ *Verify that the stabilizers are fitted as required.*
- ✓ *Platforms are secured as required.*
- ✓ *Toe Boards have been attached.*
- ✓ *Guardrails have been fitted properly.*



# Scaffolding Component Details

Before installation, it is very important to understand each and every component for better knowledge to comprehend the importance of the component at the required place in the aluminium tower.

## FRAMES

The vertical frame bears the platform and carries the vertical loads from the scaffold to the ground. All others parts are attached to the frames. It is the main component which carries most of the load.

## GUARDRAIL

The guardrail is the side protection for the users on the scaffold. It prevents the users from falling from the scaffold. It is placed at the height of knee of the user.

## HORIZONTAL BRACE

The horizontal brace is used at the bottom of the scaffold system to take up the horizontal loads from the vertical base

## DIAGONAL BRACE

The diagonal brace is used to distribute the vertical loads as well as provide support to the platform. It increases the stability of the frames.

## STABILIZERS

It increases the stability of the tower.

## PLATFORM

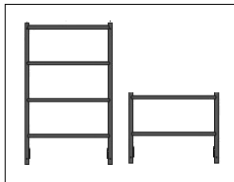
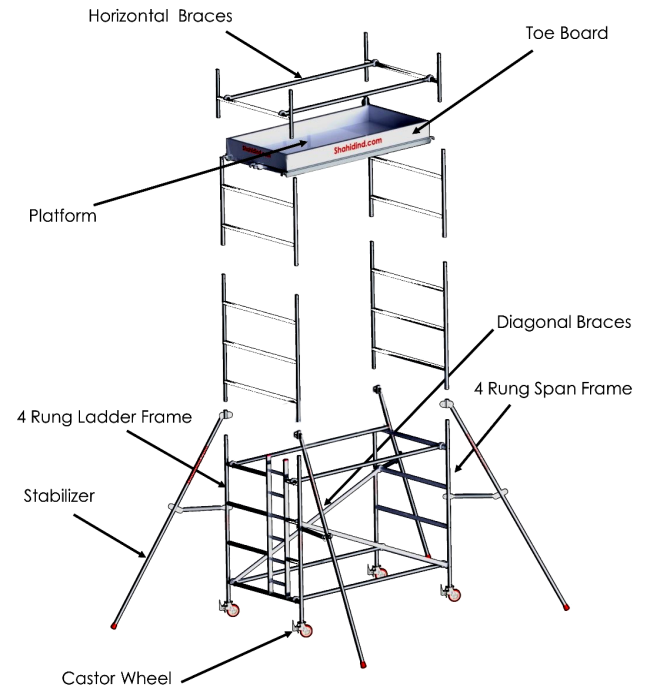
It provides space for the subject to stand, put the tools and helps in accessing the required height.

## TOE BOARDS

The toe boards prevents subjects, that are on the working platform, from falling from the scaffold. These are fixed at the outer side of the working platform

## CASTOR WHEELS

These are attached at the bottom frames to ensure ease in moving the scaffold from one place to other on the construction site. Also these have brake mechanism to avoid unrequired moving.



Frames & Guardrails



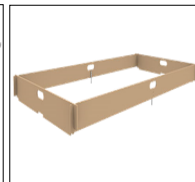
Horizontal & Diagonal Braces



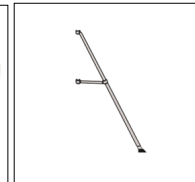
Trapdoor Platform



Standard Platform



Toe Boards



Stabilizers



Castor Wheels

# Scaffolding Erection Process

## STEP-1

1. Push 4 castor wheels into 4 adjustable legs of the scaffolding.
2. Adjust leg so that not more than 5 cm of the thread of the wheel is visible below the nut.
3. Lock the brakes of all the castor wheels tightly so that the scaffolding won't move.



## STEP-2

1. Fit one horizontal brace onto the vertical side of the ladder frame, just above the bottom rung ladder frame with the other locking hook facing outwards.
2. Secure the locking hook tightly into one side of the ladder frame.
3. Now hold the brace at 90° and lock the other end of the brace with the other span frame in parallel position.
4. Now you'll get this basic structure.



## STEP-3

1. Fit additional ladder and frames at the respective sides ensuring the line up and check that the snap lock pins are interlocked with both ends properly.
2. Fit two diagonal braces in opposite directions, from the first rung from one side and third rung on opposite side.
3. Ensure that the frames are vertical and level by checking with a spirit level and setting the sides as required.



## STEP-4

1. Place the platform at the given height. Adjust it with the hooks given on ends.
2. Fit the advanced guardrail frames on each side of the tower to complete the height.
3. Place the stabilizers and lock them tightly with the tower.
4. Check that all the components are secured tightly.



## STEP-5

1. To dismantle the tower reverse the building sequence.
2. Remove the platforms and stabilizers.
3. And then remove the end frames and braces.





## Products & Services

Aluminium Scaffolding  
Steel Scaffolding  
Baker Tower  
Podium Tower  
Ladders  
Cuplock System

Sales & Rental  
Erection & Dismantling  
Manpower  
Projects  
Inspection  
Safety & Installation



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