



LEADER OF  
**PLASTIC**  
**CONSTRUCTION**  
FORMWORK

Light Weight | High Strength | High Quality

StepUp  
PLAST

**STEP UP PLAST LLP**

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The background of the left side of the page is a photograph of a construction site. In the upper portion, several yellow tower cranes are visible against a clear sky. Below them, a large, dark grey, corrugated metal panel is shown in a perspective view, appearing to be part of a building's formwork. The bottom part of the image shows a construction worker in a yellow hard hat and safety vest working on a concrete structure. A green bucket is visible in the foreground.

All type of  
Building Formwork  
Solutions

## ABOUT COMPANY

STEPUP PLAST

**Stepup**, 10 years of experience in building materials manufacturing and production, we are committed to providing our customers with the highest quality products and the best project solutions.

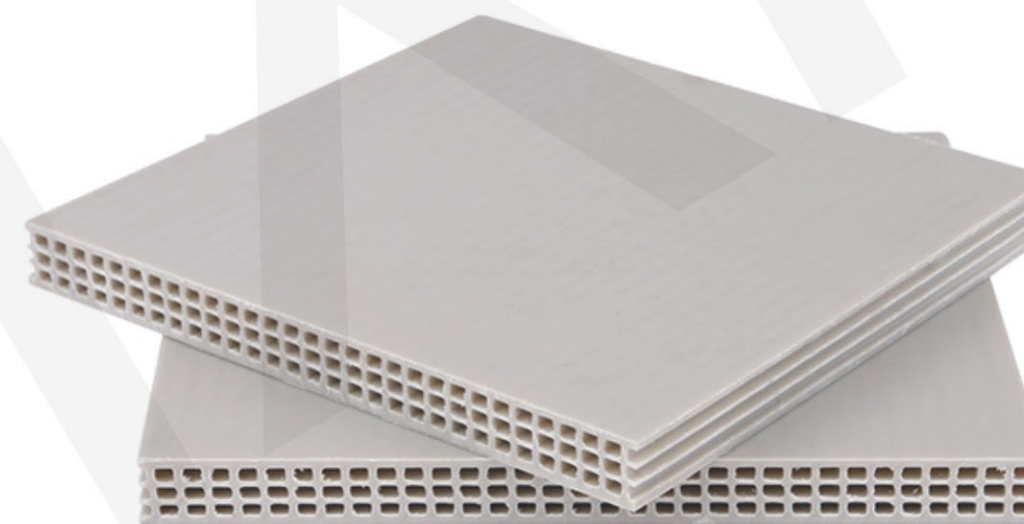
**Stepup Plast** is located in Morbi, Gujarat INDIA. It is a national high-tech import & export enterprise integrating R&D, production, sales and service.

**Stepup Plast** employs well-known domestic experts and has more than 10 years of research and development history of building materials. Our products cover plastic building templates and rubber plastic insulation materials.

Since its inception, the company has always adhered to the "quality first, integrity first, cooperation and win-win" business philosophy, so that the company's management standardization, institutionalization. It improves the industry competitiveness and social influence, constantly promote the renovation and upgrading of building technology. In the future, Stepup will not live up to expectations, continue to provide better products and services for domestic and foreign customers, and strive to be the mainstay of the industry.

# INTEGRITY INNOVATION DEVELOPMENT

## PRODUCT INFORMATION



**Stepup Plast** formwork is a kind of energy-saving and green environmental protection product, pp plastic combined with macromolecule nano-technology. Plastic formwork is a new product after wood formwork, composite steel formwork, bamboo-wood bonding formwork and all-steel large formwork. Hollow plastic formwork is energy saving and environmental protection, and can completely replace the traditional steel formwork, wood formwork, square wood, What's more, its amortization cost is very low.

Considering the labour problem & cost of formwork system we at **Stepup Plast** thought to develop an alternative formwork system which could help the industry to not only reduce construction cost but also a system that is easy to install, dismantle & handle. We were able to successfully develop for the first time in India a **Stepup Plast** formwork which can overcome most of the issues dis-cussed above.

### TECHNICAL INFORMATION

<b>Dimensions</b>	8x4feet
<b>Colors</b>	White and Grey
<b>Thickness</b>	12mm & 15mm

### PRODUCT APPLICATION

• Roof Forming • Building Wall • Pillars



REDUCE



REUSE



RECYCLE

The stitching of form work is strict and smooth, and the concrete wall after pouring and molding is good. The surface finish of concrete structure after demoulding far exceeds that of the existing Fair-Faced Concrete form work, without the need of secondary plastering and saving work and material.

Various specifications, any size, thickness can be customized according to the requirements of building engineering.

The invention has the advantages of light weight, good toughness and strong process adaptability, can be used for sawing, planing, drilling and nail, can be used as a curved-surface special-shaped form work, can be connected in any combination in the longitudinal direction and transverse directions, and can be randomly formed into any geometric shape, and can meet the needs of various building forms.

No pollution, no toxic and harmful gas emissions, scrap and used form works can be 100% recycling and reuse, which realizes zero pollution, zero waste.

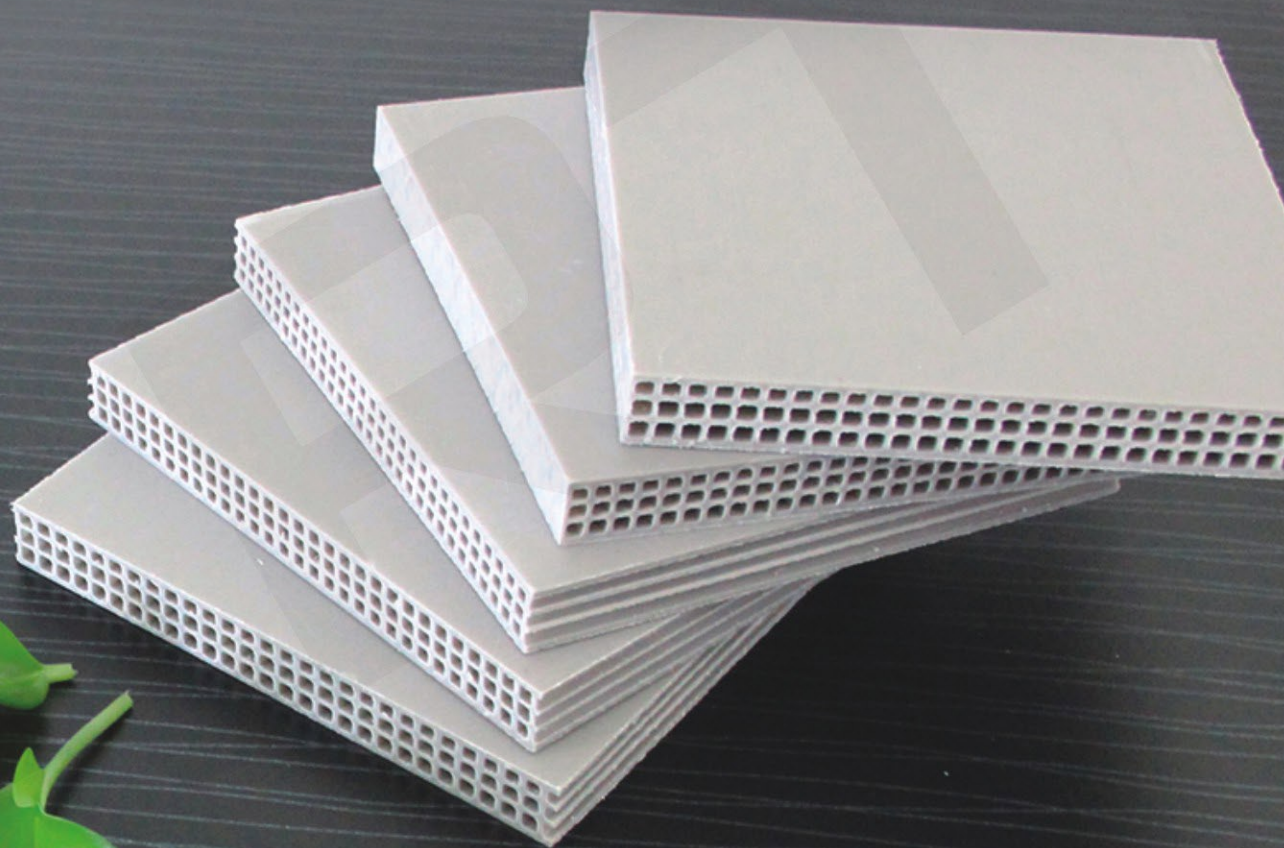


## ADVANTAGES OF PLASTIC FORM WORK

- High and low temperature Resistant
- Smooth, Light & Water Proof
- Light and Easy to Install
- The Demoulding is simple and convenient
- Customization
- Easy Maintenance
- Energy Saving and Environmental Protection
- Cost is Reduced



UNIQUE AND INNOVATIVE  
**ENVIRONMENT FRIENDLY**  
 PLASTIC FORMWORK



## COMPARISONS OF STEPUP TO OTHERS

PERFORMANCE	StepUp PLAST	MODULAR PLASTIC FOAM WORK	PVC PLASTIC FOAM WORK	PLYWOOD	BAMBOO PLYWOOD	METAL FOAM WORK
Wear resistance	Good	Good	No	No	No	No
Corrosion resistance	Good	Good	No	No	No	No
Tenacity	Good	Bad	---	---	---	---
Impact strength	High	Easily broken	Normal	Poor	Poor	High
After absorbing water	No deformed	No deformed	Deformed	Deformed	Deformed	Deformed
Release agent	No need	No need	Need	Need	Need	No
Wrap used	No	No	Yes	Yes	Yes	No
Weight (kg/sq)	6	10	15	7.2	7.5	
Recycle	✓	✓	✓	---	---	---
Bearing capacity	High	Bad	Normal	Normal	Normal	Hard
Eco friendly	✓	✓	✓	---	---	---
Cost of use	Low	Higher	High	Higher	Higher	Higher
Reusable time	Over 60	Over 60	20-30	3-6	6-8	100



## SUPERIORITY

Statistics show that in the cast-in-place concrete structure project, the formwork project generally accounts for 20% to 30% of the cost of the concrete structure project, accounting for 30% to 40% of the engineering work. accounting for about 5% of the construction period. Under the premise of ensuring the quality of concrete engineering, what kind of template materials can be selected to be the most economical and reasonable is major problem faced by many projects.



## APPLICATION

**Stepup Plast** Formwork is widely used in construction projects, bridge engineering, assembly line turnover and other types of projects;



SHEAR WALL



COLUMN



BEAM



STAIR BRACE



STAIRS



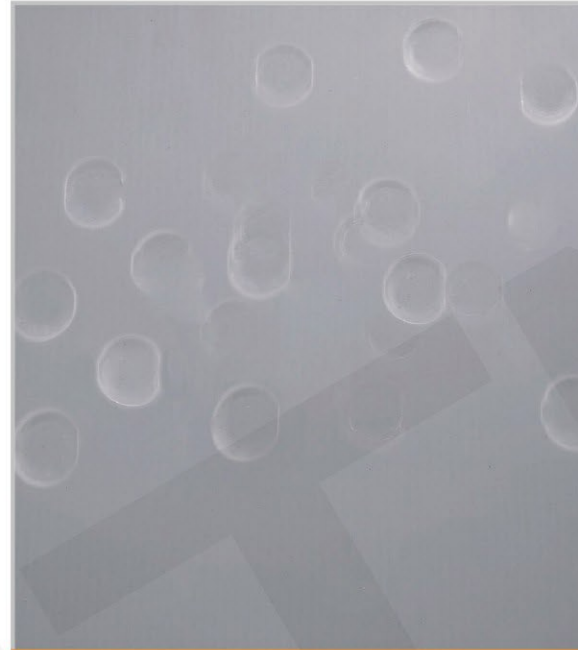
ROOF

# QUALITY INSPECTION METHOD



## 1. FLEXIBILITY TEST

Toughness test when the formwork is bent: Use a forklift to crush the formwork that is not in the same plane (one side is grounded, one side is placed obliquely), and the formwork is intact without damage after rebound.



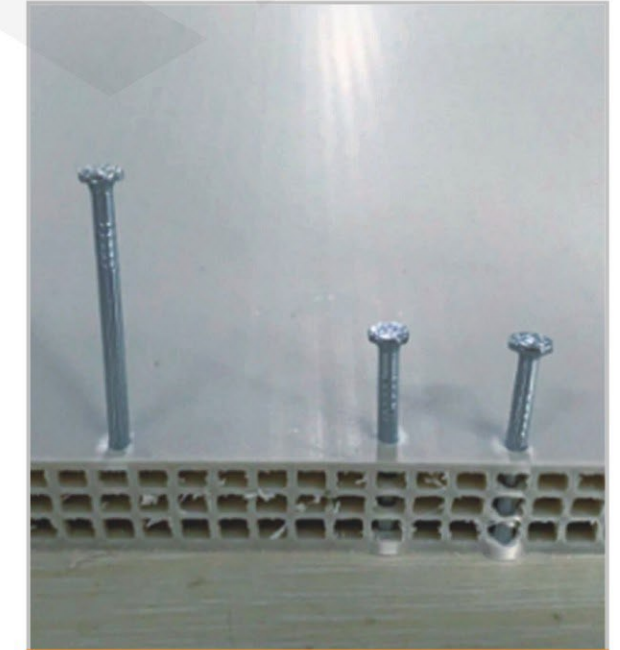
## 2. IMPACT STRENGTH TEST

Use a small round head hammer to slam the smooth surface of the plastic building formwork and observe the surface depression. Good quality building templates will have depressions, but there will be no cracks.



## 3. SHRINKAGE TEST

Put the two formwork side by side on the wooden board to record the gap distance between the two nights, the difference is not more than 3mm-5mm compared with the previously measured data.



## 4. NAIL-HOLDING STRENGTH

Nail at a distance of 5mm from the edge of the plate. If there is no crack, this indicates that the quality of the plate is good; after the nail is nailed, observing whether the bonding state of the nail and the formwork is saturated and tight.

## PRODUCING PROCESS

Our **Stepup Plast** building formwork uses polypropylene resin as the base material, and uses exclusive chemical additives to add toughening, strengthening, weathering, anti-aging and flame retardant properties. It has high strength and small deformation and is suitable for use under various conditions.



### RAW MATERIAL PREPARATION

After the raw material particles enter the machine, they slowly melt at high temperature.



### EXTRUSION

The melted raw material is injected into the extruder and thoroughly mixed and stirred in the extruder.



### FORMING

The raw materials are mixed and stirred in the extruder, then pressed and extruded into the mold to be cooled and shaped, and conveyed by the conveyor into a semi-finished product.



### CUTTING

The cutting machine cuts and grinds the semi-finished formwork, ensuring that the dust is not exposed during the cutting process.



### FINISHED PRODUCT

Finished after Cutting and Polishing.