

# PVC FORMWORK



PVC concrete formwork is a high-performance construction material made from durable, eco-friendly PVC. It is designed to withstand harsh conditions, offering excellent moisture resistance and protection against

corrosion and deterioration, making it a superior alternative to plywood or metal. With its high reusability, PVC formwork guarantees cost-effectiveness and sustainability over multiple construction cycles. Its lightweight structure ensures easy handling and installation, reducing labor costs and speeding up assembly for residential, commercial, and industrial applications.



## Specification

<b>Size</b>	915x1830mm, 1220x2440mm, 1220x3000mm, customizable
<b>Thickness</b>	12mm, 15mm, 16mm, 18mm
<b>Density</b>	0.65, 0.7, 0.75, 0.8 g/cm <sup>3</sup>
<b>Surface</b>	Smooth
<b>Customizable Options</b>	Available upon request to accommodate specific project requirements

# PVC VS Plywood Formwork

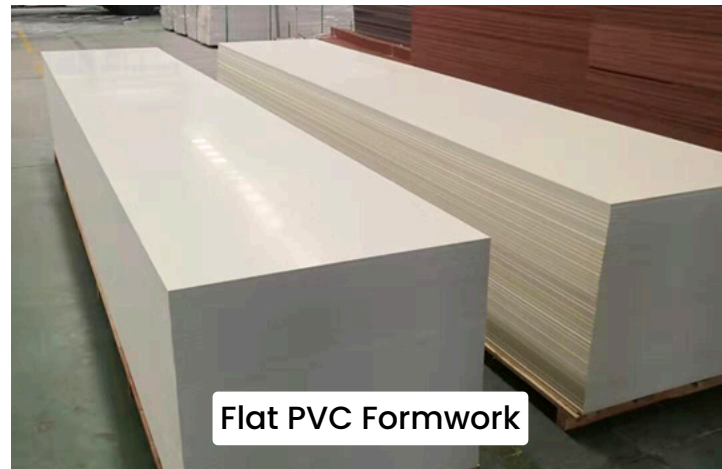


We conducted a practical comparison of plywood and PVC formwork on our construction site. The picture on the left illustrates both types of formwork being utilized in the same building and area. Notably, both formworks have been reused 6 times.

Feature	PVC Formwork	Plywood Formwork
<b>Hardness</b>	70 - 75 Shore D	Less than 30 Shore D
<b>Flatness</b>	Flat overall, slightly bent	The bending height is close to 2cm
<b>Surface</b>	No damage on the surface, with small dent	The surface is damaged, especially near the edge
<b>Corners</b>	Intact and undamaged	The corners are cracked, not right angles
<b>Service life</b>	Can continue to be used	Out of use
<b>Concrete Surface</b>		
<b>Wall, Beam, Pillar</b>	Overall clean and smooth	Rough with dirt and scratch, and uneven concrete
<b>Ceiling</b>	Tight joints, with only a little concrete overflow	There is excess concrete in the joints, need to be removed manually



# Shape Types



Flat PVC Formwork



Curved PVC Formwork

# Technical Data Sheet

- Testing Sample: PVC concrete formwork, 18mm thick, density 0.75 g/cm<sup>3</sup>.

Test Item	Method	Unit	Result
Hardness	ASTM D2240	Shore D	75
Water Absorption	ASTM D570	%	1.5
Flexural Strength	ASTM D790	MPa	26
Flexural Modulus	ASTM D790	MPa	1000
Tensile Strength at Yield	ASTM D638	MPa	30
Tensile Modulus	ASTM D638	MPa	1200
Elongation at Break	ASTM D638	%	15
Modulus of Elasticity	ASTM C1548-2	MPa	1600
Charpy Impact Resistance	ASTM D6110	KJ/m <sup>2</sup>	36

# Construction Sites

## • Residential / Commercial Construction



## • Public Buildings



## • Industrial Construction

