

WHAT IS FORMWORK

TIMBER

The oldest and most widely used formwork. Builders freely create structure from lumber and plywood. Cost-effective on small residential projects. Ideal on jobs where labour cost is lower than timber.

Unfortunately, reusability is limited and fabrication is time-consuming. Not Viable for large-scale construction.

ENGINEERED

Made of either steel or aluminium. All parts are Prefabricated for workers to assemble on job sites. The modular design makes them ideal for large-scale commercial projects. parts are durable and have low maintenance cost.

Unfortunately they are not the most cost-effective on smaller worksites.

INSULATED

An interlocking design cut from Insulated Concrete Forms (ICF). ICF is fire-resistant and improves thermal & acoustic insulation. Additionally, they are easy to use which explains their growth in popularity.

FABRIC

As its name hints, this fabric-like structure can mould concrete into any shape, no matter how abstract.

It's the next step in complex concrete structures as technology, and the construction industry evolves.

PLASTIC

Plastic alternatives combine an interlock system with a lightweight material. The outcome is a formwork that can withstand over 100 uses. It is popular on residential sites.

Plastic formwork is extremely lightweight and easy to handle and assemble. In addition, sheets are highly cost-effective because of their reusable nature.

WHAT IS FORMWORK?

Formwork is a permanent or temporary casing for freshly poured concrete until it cures into the desired shape.

Workers can choose formwork types based on project scope, budget, structure, and the surrounding environment. This is evident in the different categories of formwork available on the market.

WHY IS IT SO IMPORTANT?

Formwork is too important and irreplaceable for numerous reasons:

The process provides a minimal floor-to-floor construction cycle that reduces the timeline of a project. Site managers can mobilise and demobilise on time, saving time and money to allocate elsewhere.

Creates a quality finish to concrete surfaces. The higher the quality of formwork used, the smoother the finish. It also enhances the safety of workers on site.

Builders gain access to solid surfaces once concrete cures. Additionally, builders can now establish an elevated work platform through scaffold rigs.

Formwork is here to stay despite new technological advancements in building and construction. Through big and small differences, every type has its own unique advantages depending on the worksite and the scale of the structure.