

AERAFORM Innovation Panel Building Systems is a great alternative to Aluminium formwork and matches or outperforms it on seven critical parameters

AERAFORM® vs Aluminium Formwork



Costs

Aluminium Formwork

The initial investment in purchasing shuttering material is exceptionally high—around Rs. 5000/—per sqft, approx., on the slab area. Also, the material stays useful for only 50 to 100 repetitions before it becomes redundant.

AERAFORM

There is zero initial investment required to install AERAFORM, as it is a factory-manufactured and installed on-site solution. The customer pays only for the actual installation.



Finishing

Aluminium Formwork

If implemented correctly, it can give an excellent finish. However, skilled manpower is a big issue builders face, and hence, if the shuttering work is done incorrectly, the final finishing is greatly affected.

AERAFORM

AERAFORM panels offer an incredible finish. They are of superior quality since they are factory-manufactured and installed on-site. With the help of minimum equipment support, the regular masons working at the site can install AERAFORM wall panels.



Flexibility

Concrete Blocks

Concrete makes inside revisions, modifications, or alterations impossible, making the Aluminium formwork structure inflexible. Also, moving electrical points invites intensive labour with equipment like a grinder or concrete breaker.

AERAFORM

Modifications, revisions, or alterations are possible with AERAFORM and moving electrical points is easy, fast and hassle-free.



Light weight

Aluminium Formwork

Concrete weighs approximately 2500 Kg/Cu M, four times heavier than AERAFORM, resulting in a heavy structural design.

AERAFORM

AERAFORM wall panels have a density ranging between 600 - 700 Kg/Cu M. Being four times lighter than concrete; they make for a lightweight, cost-effective structural design.



Heat

Aluminium Formwork

Asphalt and cement surfaces absorb heat from the sun, increasing their surface temperature and making life uncomfortable inside the room. Air conditioners are necessary, increasing energy and electrical consumption and costs.

AERAFORM

The AAC material in AERAFORM helps keep the temperature inside the rooms up to 5 degrees cooler. The microscopic pores prevent surface heat from being transmitted indoors, leaving the room comfortable for its inhabitants.



Earthquake Resistance

Aluminium Formwork

Steel and reinforced concrete are stronger and more pliable, making Aluminium formwork suitable for resisting seismic vibrations to a certain degree.

AERAFORM

The lightweight AAC material in AERAFORM absorbs vibrations, reducing the impact of earthquakes on the structure and thus providing earthquake resistance. Additionally, the material may dissipate energy and aid the structures to withstand seismic effects.



Green construction

Aluminium Formwork

Curing is essential for the hydration of cement, which strengthens concrete. Furthermore, plastering demands curing to level up the undulations in the coarse surface of concrete. The wasteful use of a natural resource like water makes the process ecologically unfriendly.

AERAFORM

Waste materials like fly ash and GGBS are used to manufacture AERAFORM Panels, making them sustainable. No curing is required, thereby saving the wasteful use of precious water. Additionally, plastering is eliminated since a finished plaster or putty is applied as a sub-surface directly on panels to prepare the surface for the paint coat.