

Turn your site into a production line with



Monolithic Construction with PERI



Monolithic Construction

Monolithic construction transforms traditional sequencing into a single-cycle operation. Instead of casting slabs, walls, and columns separately, all structural components are cast in place, in one pour, using a customised, lightweight formwork system. This method is ideal for projects with high repetition and limited variation — like housing developments, student residences, and educational facilities.

No plastering. No screeding. No patching. Just clean, accurate structure – straight from the formwork.



Simple assembly process
Assembly is self-explanatory. This lowers the fault rate at your construction site.

The incredibly lightweight, aluminium elements are planned individually and prefabricated to meet the specific requirements of the project. This enables you to implement virtually any building geometry in a straightforward manner. By working with only a few individual components and using a straightforward assembly process without a crane, it is possible to reduce material losses and speed up working processes on your construction site.



Robust and Lightweight Panels
Single extruded panels made from high-strength 6061 grade aluminium with vertical ribs enhance robustness while remaining lightweight





Top Product Features

- 5-day turnaround per unit — predictable, repeatable, fast
- Custom-designed for your project — every layout, opening, stair and slab detail is specified.
- up to 500 uses per formwork set — high reusability = lower cost per pour.
- Flat tie installation — speeds up setup, simplifies crew work.
- No plastering. Minimal rework. Just clean, cast concrete finishes.
- One operation: walls, slabs, beams, and stairs

Advantages

Wall thicknesses from 10 cm to 30 cm and slab thicknesses up to 20 cm

Lightweight aluminium elements enable crane-free setup and efficient site handling

Supports fresh concrete pressures up to 70 kN/m²

Tight panel joints and wedge couplers allow for clean, fast connections

Reusable conical ties, installed from one side only—no spacer tubes required

Modular and modifiable for subsequent or repeat projects

Straightforward, low-error assembly – reduces site faults and training time

Integrates with other PERI systems for additional flexibility



Customer Benefits

Training and Site Support

PERI provides on-site training, formwork supervision, and practical setup guidance — helping labour follow the casting cycle, minimise errors, and maintain consistent progress. The method is easy to adopt for local or entry-level labour, reducing reliance on skilled trades and improving delivery efficiency.



Consistent Quality and Finish

Project-specific formwork delivers precise alignment, integrated openings, and a smooth concrete finish — with no need for plastering. This reduces rework, accelerates handover to finishing trades, and ensures repeatable results from unit to unit.



Reduced Waste and Cleaner Cycles

With up to 90% less construction waste, the system cuts down on offcuts, plastering debris, and rework. Less clean-up. Fewer skips. Easier daily sequencing.