



**doka**

The Formwork Experts.

# Aluminium Formwork **Doka Monolithic**

Pouring walls and slabs in one flow.

[www.doka.com](http://www.doka.com)

Produced by

**MFE**

## Aluminium System Formwork Doka Monolithic produced by MFE

MFE offers a revolutionary aluminium formwork construction system which has been developed and successfully used around the world to form cast-in-place reinforced concrete structures.

### Fast construction times and high quality concrete finishes

Using MFE aluminium formwork, all structural building components can be cast in concrete in a single operation that dramatically reduces construction times and results in an extremely strong and high quality concrete structure. The formwork is custom designed and made-to-measure for each project and is able to monolithically form all components at the same time including

- Walls
- Floor slabs
- Columns and Beams
- Stairs
- Balconies
- Door and window openings are also incorporated

The resulting structure is extremely strong, highly accurate, and achieves a high quality surface finish with only minimum "skim coat" required for final surface finishing. Using the system, our customers are able to dramatically increase the speed of construction with high-rise buildings constructed at a rate of 4-5 days per floor and landed properties constructed at a rate of one house per day using a single set of forms. MFE aluminium formwork systems can be operated by trained nonskilled workers and requires no specialist tools or equipment.



▲ Doka Aluminum Formwork System produced by MFE is a high-performing formwork designed to cast walls and floor-slabs quickly in a single pour



▲ Thanks to test assembly we can every time ensure the correct setup of the system - especially for special areas like as staircases, special shaped walls, etc.

### MFE aluminium formwork panels are adaptable for a number of concrete forming requirements

MFE formwork is easily adapted to all types of concrete forming requirements, from office towers, hotels and up-market high-rise condominiums, to single and double story homes and affordable housing projects.



▲ Build smart - Doka Aluminum Formwork System produced by MFE allows highly cost-effective forming achieved by an adaptive and logical system concept



▲ Exact adaption to to project specific requirements eliminates adjustment work on site and speeds up forming time

## Your benefits of using aluminium system formwork.

---

MFE aluminium system formwork is very simple to use, reduces your cycle times and saves costs.



### Simple to use

Can be assembled with non-skilled labour with simple training and no special tools required



### Short cycle times

Typical cycle times of 1 floor every 4-5 days or 1 single story house a day are achieved with MFE Formwork solutions.



### Cost savings

Substantial direct and indirect building cost reduction is achieved with MFE aluminium formwork solutions.



### Lightweight

Average weight is only 23-25 Kg m<sup>2</sup> so no heavy lifting or cranes are required.



### Reusable

MFE Formwork can be used 300-500 times so ROI is maximised with multiple projects.



### Full recyclable

Aluminium formwork is 100 % recyclable at the end of its useability.



### Reduces site rubbish

Constant reuse keeps the construction site clean, safe and tidy and reduces cost of site clearing.



### Design flexibility

MFE design team highly experienced in designing formwork solutions for multiple types of building and applications.



### Accuracy by design

Highly accurate building dimensions and high quality finish minimises costly remedial works.



### Finish quality

Achieves a high quality finish after removal with only minimum "skim" coat required and no heavy plastering or extensive finishing needed.



### Low carbon emissions

Countries start to specify that wooden formwork should not be used anymore, as it is not reusable.

## References

---



▲ 150 Mid-range linked townhouses in the Shah Alam area in Kuala Lumpur



▲ Multi generational and harmonious residential sanctuary, where a cycle time target of 5 days per floor was achieved due to the formwork solution.



▲ Cameron Highlands, Summer Square comprising ground floor and 4 storey low rise apartment buildings with retail at ground level. Retail units cast first and apartment floors completed at a rate of one floor every 5 days.



▲ The Cayan Tower, a luxury apartment building with a striking helical shape, turning 90 degrees over the course of its height.

