

# MASCON

For cost effective housing  
the Mascon Aluminum Formwork System  
is **THE ONLY SYSTEM**  
on the world market that...



forms any architectural design,  
with loadbearing walls,  
with a 15% cost saving, using  
unskilled labour, without cranes,  
without timber or plywood...

## Why Cast-in-Place Concrete?

Cement, sand and stone are readily available in most countries. Concrete is strong, durable, fire-resistant, rot and termite free. Concrete has low noise transmission, good thermal capacity, low maintenance, long life and is environmentally friendly.

Cast-in-place concrete, unlike pre-cast, does not have the construction joints that can cause problems of structural weakness and water penetration. Cast-in-place concrete also eliminates the high capital, handling and transportation costs associated with pre-cast concrete.

## Why Loadbearing Wall Design?

Ove Arup, internationally recognized structural engineers, in a comparative study on typical five-storey buildings erected in Cairo, Egypt, concluded:

*“The loadbearing wall design has structural and economic advantages over the column and beam solution, due both to the relative costs of the different elements and to the more efficient way the structure works.”*

Their analysis showed a 15.7% saving in structural costs by using loadbearing walls rather than the conventional column and beam with block infill.

## Why a Hand-Held Formwork System?

Hand-held forms are ideally suited to loadbearing wall designs of any configuration because they can form the complex connections other systems can't. And because they are small, they can be easily transported through small openings from floor to floor, and building to building.

Massive steel formwork systems require cranes to handle the forms. However, moving cranes among numerous low-rise buildings is not practical.

The hydraulic pressure of fresh concrete placed in loadbearing walls is very high. While timber and plywood forms can form columns and beams easily, they need expensive walers, bracing and ties when used to form loadbearing walls.





## Why the Mascon Construction System?

- Mascon forms ALL the concrete in a building - including walls, floor slabs, balconies, window hoods, curved and decorative features as well as columns and beams.
- Mascon enables all concrete to be cast monolithically, thereby eliminating joints.
- Mascon completes the entire structure of a building at a rate of 4 days per floor.
- All Mascon formwork is erected and dismantled without cranes, using unskilled labour equipped only with hammers.
- Mascon includes systematic construction scheduling and coordination of all trades.
- Mascon's all-aluminum components produce accurate, high-quality surfaces that save costs on the finishings and the fitting of doors and windows.
- The Mascon formwork equipment is environmentally friendly and fully recyclable.
- The Mascon formwork equipment is not damaged by concrete vibrators and mechanical operations. The equipment can be reused many hundreds of times.
- Mascon has a proven track record of constructing hundreds of buildings designed with loadbearing walls.

*... At a rate of  
4 days per floor!*

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And Mascon's free design and consultation services, as well as complete site training, accompany every set of its formwork.



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