

# Shutter System



Styrene Shutter Wall



Re-usable Plastic Shutter Wall



# ICF

## Lock-Form

sustainable building solutions

# Products & Benefits



## ICF CONTRACTING PTY LTD

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Lock-Form is unlike any conventional formwork system in the world, the ability to offer the largest R-Value Insulation in the market today, giving the client the ability to build an efficient sustainable home without cost blow outs.

Lock-Form was designed specifically to service the sustainable building market & has proven to be the market leader in Australia.

## ICF Lock-Form System Benefits

### Temperature Stability

Buildings constructed with ICF Lock-Form panels enjoy a more even temperature throughout the day and night. This is contributed to by reduced air infiltration and excellent thermal values. Other ongoing benefits are listed below.

### Noise Reduction

Approximately only 1/3 of the volume of noise penetrates an ICF Lock-Form wall as passes through a conventional wood or steel framed system. This sharply reduces noise penetration of the building from sources such as traffic, weather and the operation of mechanical equipment.

### Energy Efficiency

Studies comparing the fuel bills of ICF houses and similar wood framed houses estimate that on average an ICF house will consume 43% less heating energy and 32% less cooling energy. Heating & cooling units can be downsized as a result of reduced load requirements.

### Strength

ICF Lock-Form walls are constructed of reinforced concrete, which has an excellent record for surviving natural disasters such as storms, fires, floods and earthquakes. For optimal results the design of your ICF Lock-Form walls (including wall thickness and reinforcement requirements) should be undertaken by an engineer in accordance with The Australian Standard for design of in situ concrete walls.

### Sustainability

Concrete is a material for the ages. It is resistant to rust, rot, fire, light, oxidation and pests. The earliest forms of concrete still survive in structures nearly two thousand years old.

### Environmentally Friendly

It is evident that steps need to be taken to preserve precious forestry resource. Building ICF Lock-Form homes significantly reduces the amount of timber required for new home construction.

### Design Flexibility

The ICF Lock-Form system can be a base for many conventional finishes such as render, brick, and various claddings. When building with ICF Lock-Form you can achieve many striking features that set your home apart from the rest.

### Ease of Construction

Working with ICF Lock-Form panels is lighter and faster than with many other types of material, hence cutting down valuable construction time.



Mr. Ari Schupak, Managing Director of ICF Contracting Pty Ltd says –

*“Lock-Form is an innovative, environmentally friendly formwork system that addresses Thermal Bridging to achieve energy efficient structures”*

**Lock-Form**™

## Plank & Tie System

