



Summary of the METROBLOCK Building System

- ➔ **METROBLOCK** is a building system, designed and developed in Nigeria and configured to deliver **high quality and durable affordable housing** through an efficient process that cuts **construction time, reduces wastes and generates employment**.
- ➔ The **METROBLOCK** Building System Technology uses **5 basic block units** to form walls and openings. A service block variant of the standard block is designed to access electric and plumbing pipes and their wall fixtures.
- ➔ The METROBLOCK Building System delivers on **quality, time and cost**. Structures built using this system have the following features:
 - 1. BUILD FASTER** - The system cuts **construction time by 50%**.
 - 2. NO NEED FOR MORTAR** - Blocks **do not require mortar at joints** as they are designed to interlock.
 - 3. NO NEED FOR EXPENSIVE SKILLED LABOUR** - Blocks are **self-aligning** and do not require skilled labour. Anyone can build with these blocks with minimal training.
 - 4. SEISMIC RESISTANCE** - **Reinforcements run through walls** giving them strength and the mechanical framework necessary for tensile and compressive integrity.
 - 5. LONG SERVICE LIFE** - **30 years maintenance-free**, at least, on the building's fundamental structures.
- ➔ **FEATURES.**
 - A. Wall reinforcements run through service channels from concrete floor slab up entire wall height to ring beam.
 - B. Channels for plumbing , electrical & reinforcements. eliminate the need for opening and patching of walls.
 - C. Blocks articulate easily requiring little time and no specialized skill by sliding reinforcements & pipes through channels.
 - D. They articulate in a tight fit at mortarless joints offering both vertical and horizontal resistance.
 - E. Service blocks allow for easy access to pipes and installation of fittings.
 - F. Corner blocks are sturdy with double channels for bigger reinforcements.
 - G. The system has excellent acoustic and thermal qualities owing to its double facing wall.
 - H. METROBLOCK double crab-like grip gives it exceptional strength and stability.

➔ **LINTELS AND AC OPENINGS.**

As proof of its ability to respond to local building preferences, the system has a series of **lintels that seamlessly lock with blocks as well as openings for AC units.**

These features are not available in other similar building systems from other parts of the world. It shows how the **METROBLOCK** can be adapted to local preferences.

➔ **ADAPTING CONVENTIONAL BUILDING PLANS TO THE METRO SYSTEM.**

Any conventional building plan can be adapted to the METROBLOCK Building System. Our design and adaptation system ensures standards and specifications are met for all projects.

➔ The **METROBLOCK** Building system can be used for all types of building projects:

A. Residential

B. Institutional

C. Single floor/Up to 3 floors

And for:

1. Mass social housing

2. Estates

3. Private buildings.

Because of its high level of efficiency the **METROBLOCK** Building System seeks to deliver typical 1,2 and 3 bedroom within 2 to 3 weeks post foundation.