

SPEEDFIT LOGIC SYSTEM

In Nigeria's **fast-growing construction industry**, the proper design and supervised installation plumbing systems is often overlooked, yet as earlier shown, **poor plumbing work** remains one of the **leading causes** of structural damage, health hazards, and high maintenance costs in residential and commercial buildings.

We recently carried out a desk survey of residential developments completed in Nigeria over the last 10 years and found that about 65% of plumbing installations experienced leakages within the first 2 years. More significantly our survey showed that over **85% of these defects** were attributable to the following **primary causes**;



Inferior Quality Materials

The use of substandard or fake plumbing materials due to economic pressures and unregulated markets is a major contributing factor to early failure.

Poor Workmanship & Installation

A lack of skilled or certified personnel and technical supervision on construction sites leads to improper installation, which can cause immediate or long-term problems.

Inadequate Maintenance Culture

Both public and private buildings often suffer from a poor or non-existent maintenance plan, allowing minor defects to escalate into major failures.

Enforcement of Building Codes

Weak or insufficient regulatory oversight (e.g. lack statutory inspections and approvals) contribute to a system where non-compliant practices regularly occur.

'Property developers often prioritize initial cost savings over long-term quality, leading to the selection of cheaper, less durable plumbing options. However subsequent failures result in economic losses for investors and property owners due to high repair and maintenance costs, and an appreciably faster depreciation of their building asset values.'

SPEEDFIT LOGIC SYSTEM

The Speedfit Logic System is based on the **Logic design layout**.

The system components comprise;

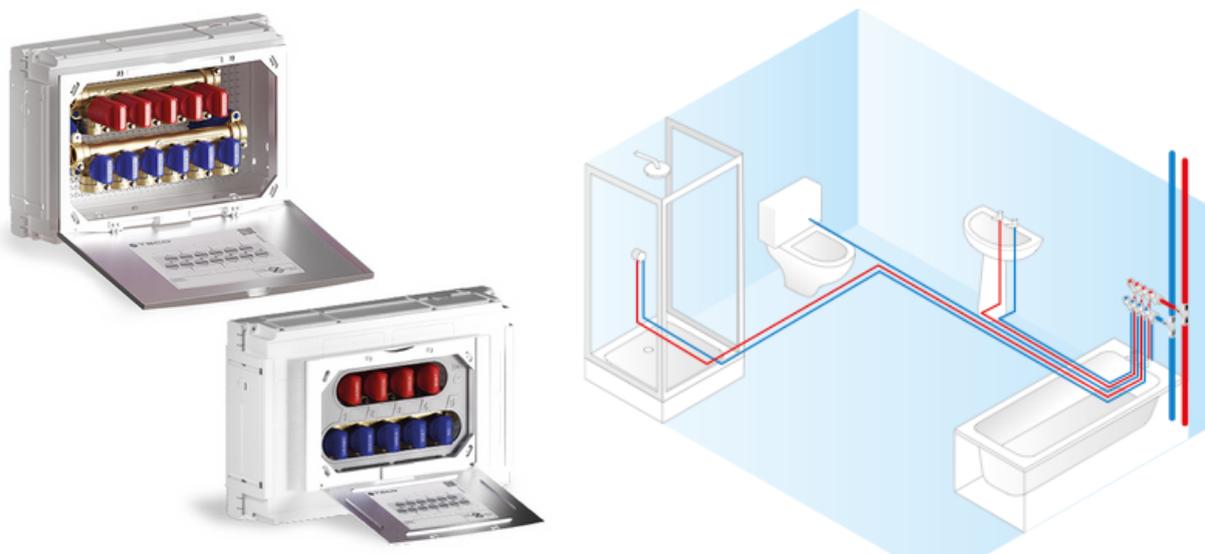
- 15mm & 22mm flexible Speedfit PEX piping – available in coils of up to 50m
- 2, 3 and 4 port Speedfit Multiport Tees, Sanitary Manifolds and Cabinet Boxes
- A range of Speedfit couplers, tap connectors, flexi-hoses and service valves

At Casaforte we provide **developers, consultants and property owners** with **professional technical advice** on how to get the best economy and performance efficiency from your project's plumbing design and installation using the Speedfit Logic System.

We offer the following **2 alternative solutions**;

Speedfit Logic Manifold System

This advanced system not only benefits from all the inherent advantages of the fast, easy, and leak-proof connections offered by Speedfit Technology, but has the added benefit of allowing for **individual flow control** to every fixture, and in the event of a problem the **individual isolation** of appliances, whilst leaving the rest of the system fully operational.

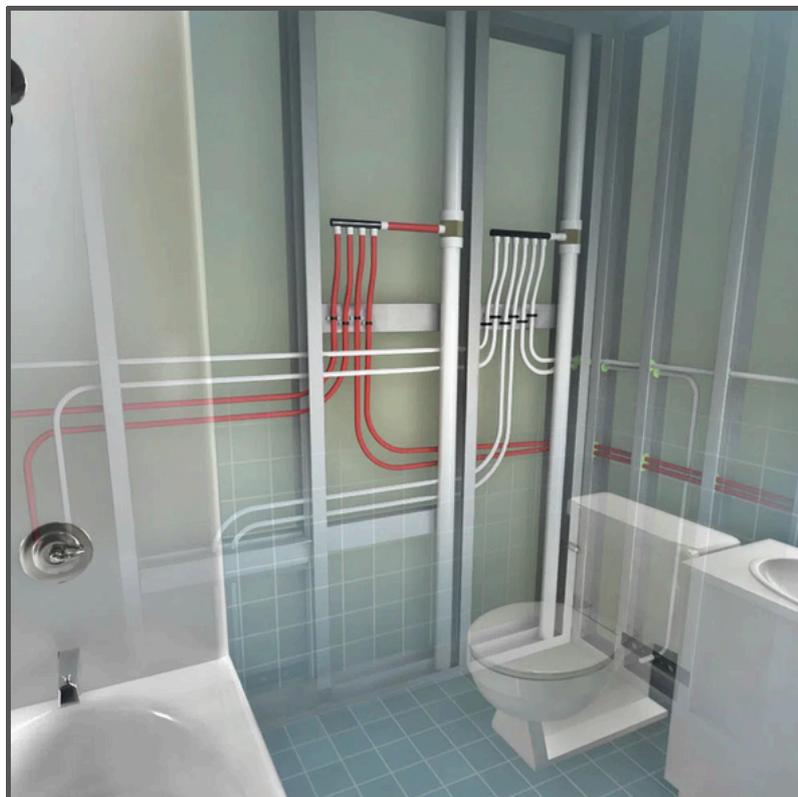


It means that the **'manifold box becomes to plumbing what the consumer box is to electricians'**, in that as each appliance has its own circuit of pipework, if the appliance leaks or is faulty that circuit can simply be turned 'off'.

SPEEDFIT LOGIC SYSTEM

Speedfit Logic Multiport Tee System

This alternative system offers a more economical Logic Design solution. It substitutes **enclosed multiport tees** for the accessible valve manifolds distributing water to each fixtures zone. Whilst this option does not provide the same level of flow control to individual fixtures, it still delivers the high quality performance characteristics offered by Speedfit Technology.



Both of these Speedfit Logic System options essentially allow for the hot and cold water supply in a building to be distributed directly from the supply points to the manifold boxes or multiport tees serving each fixtures zone, using **continuous flexible PEX piping** with no intermediate fittings, thereby completely removing the possibility of joint leaks. This allows for the piping to be safely embedded in floors, walls or ceilings **without risk of leakage**. The Logic design also **prevents pressure losses** in the distribution network, ensuring good flow rates are maintained to all sanitary fixtures and appliances individually supplied from a manifold valve or multiport tee.