MARLEY pipesystems

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CASE STUDY: PRO-FIT HOT & COLD WATER SYSTEM, JOHANNESBURG CBD

Reaching new heights of delivery

In recent years, Joburg has been on a drive to regenerate its inner city to better accommodate its current and future residents. As part of this huge regeneration strategy, a number of old and dilapidated high rise buildings are being completely stripped and converted into living apartments in areas such as Braamfontein, Joubert Park, Yeoville and Doornfontein.

During construction, there were a number of factors that would influence the successful completion of each and every project, one of which was the choice of plumbing system. Operating in areas where the crime rate is high, copper parts had to be ruled out due to theft risks on site.

Pro-fit is helping to reduce those risks by offering a polymer-based range of products that make up the hot and cold water system for multi-storey buildings.

THE CHALLENGE

Marley was initially involved in the project to convert a 17 storey building from copper to Pro-fit. The success of this particular project led them to secure a contract for the next building to be renovated, a 29 storey behemoth that would serve over 450 living apartments.

Providing hot and cold water to the upper floors of high rise buildings like this is a fundamental requirement and the main challenge for plumbing system engineers who must consider a number of variables such as available municipal water pressure, flow demand, pipe and valve materials, riser locations, pressure regulating stations not to mention economics and even acoustics.

Requirements:

- ✓ Safe and reliable hot and cold water plumbing solution
- ✓ Quick and hassle-free installation and maintenance

One System.
Countless Satisfied End Users

29	16	450
Storey Building	**Apartments per Floor**	**Total Apartments**

Helping Joburg meet its promise for a better future

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A winning system for high rise buildings

For the project, Pro-fit was used as part of a fusion PPR (Polypropylene Random) plastic piping system to supply water throughout the building. The lower storeys are supplied directly from the pressure in the public water main while the upper storeys are supplied from pressure-boosted main risers through a pressure reduction valve for each group.

PE (Polyethylene) has been widely used for the safe transport of potable water for more than 35 years with no harmful leaching of elements into the supply line. Added to this track record, The Pro-fit system is JASWIC approved and has been tested and rated in accordance with SANS ISO22391 for hot and cold water supply systems. The ingenuity in design and material properties of the system offered many benefits for the project:

- ✓ Ease of installation
- ✓ Increased reliability
- ✓ Reduced costs
- ✓ Reduced noise levels
- ✓ No scrap value

Ensuring value for years to come

For Marley, working on big projects like this one is never just about the sale, it's about ensuring sustainable installations that add value to everyone it touches. To this end, Marley was closely involved in the project to make sure that contractors and installers had access to expert advice at all times. This included the provision of training to each project team to help familiarise them with the product so that they would be comfortable using it. On-site technicians were also available to provide fault-finding support for any installation troubles that were encountered.

The Final Result

Although the project is still in progress, the outcomes of the installations so far have demonstrated the Pro-fit system's powerful capabilities.

The contractors were impressed by the ease of use, hassle-free operation and cost-effectiveness of the system, as well as the value-added service that was provided. S**o much so that they are keen to work with the Pro-fit system and Marley again in their next renovation** – this one, a 19 storey building.

For the latest product information and local distributors, visit
www.marleypipesystems.co.za

Pro-fit

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