BATHROOM
PODS
Our SCC Offsite Pod Division is headed by Renato Pasotti, an experienced senior specialist, who has been working in the offsite bathroom pod construction market since 1994, in Europe as well as in the Middle East, delivering best quality customized offsite bathrooms to leading Main Contractors and Hotel Developers, such as, but not limited to, InterContinental Hotels Group, Marriott International, Radisson Hotel Group and AccorHotels.

As you know, in any hotel, healthcare or multi-residential project, bathrooms are a critical path item for Main Contractors, Developers and Investors.

Our mission is to expand through innovation and to take part in the growth of the construction sector in all GCC countries as a problem-solving task force in order to improve efficiency and quality of the building industry in the Middle East.

We produce top-quality, factory controlled lightweight steel framed bathrooms, combining build quality, sustainability and efficiency at competitive prices, according to high-quality standards and strictest local and international quality requirements for the hotel, healthcare and residential building sector in the GCC.

Our construction system is without question the most cost-effective solution for the manufacturing of bathroom pods in light steel framing in terms of production efficiency and CAD design capability.
Our expandable manufacturing plant and warehouse based in the New Industrial Area of Riyadh, KSA, has a current production capacity of more than 3,000 pods/year.

Labor force: 40 highly skilled manpower.

What is more, we provide Factory-in-a-Box solutions for flexible, quick and mobile manufacturing capacity on demand.
Saudi Ceramic Company is a leading provider of quality building solutions that include various types of ceramic products (ceramic tiles, porcelain tiles, sanitary wares and accessories), electric water heaters, bathrooms fittings, including baths, shower trays, mirrors and mixers. Other products include plastics and red bricks.
BATHROOM PODS
These podded units are fully manufactured in our offsite production plant and supplied to the construction site complete with water intake pipes, waste system, electrical installation, lighting, ventilation system, cladded with first class tiles and equipped with the best sanitary ware, faucets and accessories.

We offer free installation assistance for the first pod delivery to site and provide for detailed shop and installation drawings (plans and elevations).
Significantly reduced construction times.

In any hotel, healthcare or multi-residential project, bathroom and kitchen construction is usually a critical path item. The need for successive intervention by multiple tasks, some more than once, can take weeks or even months, whereas, with proper design and planning, a podded bathroom and kitchen can be installed in less than 20 minutes. Consequently, there can be major savings in construction overheads and financial costs.

Certainty of costs.

All quoted prices are for design, construction and delivery to construction site of fully equipped bathroom units. In other words, you will no longer have to face unexpected additional costs on site.

Quality assurance.

By building offsite bathroom units under factory conditions it is easier to ensure proper quality control during construction, avoid previous work being damaged by subsequent trades and fully MEP & HVAC testing before final installation of the pods.
In order to avoid any mistake or misunderstanding in the final equipping of the pod, it is important to manufacture a benchmark pod to evaluate and verify that all components meet the client’s requirements before starting with mass production.

One single contractor means one single guarantor for structure and test certificate conforming to installation according to the regulations in force, in particular, for plumbing and electrical installations, including after-sale service.

Normally, the pods are delivered just-in-time to the site by truck (up to 5 units per load depending on size). This avoids the storage and handling of components on site and consequently losses and damage.
ADVANTAGES

7 Cleaning and Protection.

The pods are thoroughly cleaned prior to delivery. During transport by truck, storing and final positioning each pod will be protected with its own waterproof polyethylene sheeting and temporary door.

8 Avoidance of site damage.

With a properly designed pod, where all service connections are located outside the pod, there should be no need for any trade to enter the pod after placing it on site. Indeed, the pod can remain sealed until shortly before being commissioned.

9 Skilled labour.

Minimal skilled labour requirement on site.


10 Dimensional accuracy.

Podded bathrooms are manufactured under strict quality and dimensional control. The result is that interior walls are flat, square and smooth.

11 Structural strength.

Although the pods are not intended as structural elements, these are sufficiently strong to support fixtures such as doors, hanging cupboards, sanitary ware, accessories, wall covering, etc.

12 Flexibility.

While there are obvious cost advantages in basing design on an existing standard, it is possible to build a pod to almost any design and vary wall, floor and ceiling thickness to suit individual requirements in order to obtain the real “made-to-measure” offsite bathroom pod.
ADVANTAGES

13

Range of fixtures and finishes.

Fixtures and finishes may be sourced from any supplier specified by the client.

14

Repairability.

All fittings and finishes can be repaired or replaced by conventional methods. All piping and plumbing are ducted and accessible.
PRODUCTION PROCESS
We have developed a highly efficient offsite cold formed steel framing production concept within our main bathroom pod manufacturing plant, where the strip steel is fed through powerful forming machines which shape it into a channel profile, automatically punch out pre-programmed holes for pipework, ductwork and bolt fixings, and then cut the extruded channel to length.

Lightweight galvanized channel frames have several advantages over conventional welded steel box frames which were previously used for the manufacture of prefabricated bathroom pods.

They are significantly lighter than welded steel frames, more cost-effective to produce and offer superior fire and acoustic performance.

In production terms, cold-rolling the lightweight pod frame in this way offers a complete offsite control of the assembly process, along with optimum “on-demand” manufacturing flexibility. Having an in-house cold rolling capability also allows to avoid fluctuations in the price of fabricated steel.

For added protection, we also maintain a full back-up of all steel forming operations to ensure continuity of output at all times, while the computer-controlled formers can be easily re-programmed for any additional or ad-hoc production runs of channel which are required.
The cold-rolled galvanized steel sections are stacked in double-sided wheeled racks (stillages), each side of which holds the required section lengths to form a complete pod.

At this stage, each pod first receives its unique production id, which initiates the paper trail for all subsequent quality control.

The stillages are wheeled to the panel assembly area where the sections are riveted to form the frame for the wall panels. For added rigidity, the studs can be spaced at different centers, compared with 600 mm centers in conventional partition construction. Externally, this steel frame can also subsequently be used by the site contractor as studding for dividing walls if required.

The walls are lined with building boards which are machine-cut before being wheeled to the panel assembly area and fixed with self-tapping screws.

Roof panels are made from rigid welded steel frame which are sheeted with building boards on the ceiling and same material on the roof in order to avoid any damage on site.

These prefabricated bathroom pods are also specified as floorless, either for installation in an existing structure or where the main construction type does not suit floored pods.
The pod frame is now in a rigid state and is moved to the main assembly hall for fitting out.

The floor panels are made of reinforced concrete or steel frame lined with low profile building boards and are usually equipped with tested lifting points.

All the wall panel sections except one are placed in position on the floor panel and are clamped together prior to permanent screw fixing with self-tapping screws.

The assembled ceiling/roof panel is lifted on to the wall panels and carefully aligned for bolt fixings. The remaining wall panel is placed into position, and all wall panels are secured to the floor panels with bolt fixings.
FITOUTS AND FINISHING

The pod frames can be fitted now with nylon wheels to enable them to be moved up the finishing production lines where a number of different finishing processes are carried out under quality control supervised conditions: taping, tanking, first fix, tiling, painting, second fix, first cleaning, final testing, quality approval checks and final cleaning.

The wet areas of the pod are waterproofed prior to tiling using an approved tanking system. This entails applying coats of tanking gum and rubber tape in the 90° corners to render the pod intrinsically waterproof prior to tiling.

The mobile assembly lines represent an extremely efficient manufacturing process which enables both high-volume production and advanced quality control. Each line has several tooled workbench areas, each dedicated to a different element of production: tiling, plumbing fitting, electrical and final cleaning.
TESTING

All bathroom pods are fully tested prior to dispatch.

All plumbing, electrical and ventilation services within the pod are completed in the factory and routed to a termination board on an exterior pod wall for quick and easy hook-up on site.

All pipework is pressure-tested in the factory, to 6 bar for 30 minutes on the supply pipework (roughly three times average main pressure), and to 6 bar for 15 minutes for drainage and waste pipework. For purpose of comparison, an average car tyre is inflated to about 2.20 bar.

On its journey up the assembly line, each individual pod is continuously inspected at every stage of construction by our factory supervisors, who have the authority to pull any pod off the lines if any deficiencies in workmanship are identified.

Each finished pod is signed-off with a comprehensive certification of inspection document.

Finally, each approved pod is given a thorough clean to remove plaster dust, grout traces and any other construction waste.

Now only a practised eye could differentiate between a factory-made bathroom pod and a traditionally-fitted bathroom.
DELIVERY

The cleaned and inspected pods have a temporary door fitted before they are removed from the assembly line for protective wrapping.

Heavy-duty polythene sheeting is used to protect the roof, and the entire pod is automatically wrapped with clear polythene film.

A delivery schedule is agreed in advance to suit site access and off-loading facilities.

Pods have to be off-loaded by site crane using lifting slings, generally at a rate of about 4 pods per hour.

Forklift off-loading should be strictly avoided.

When off-loading by crane has been specified, we supply all necessary lifting apparatus.

When the pod has been off-loaded, it is important to set it down on suitable temporary supports to compensate for any uneven surface which could distort and damage the frame.

These supports must be placed at appropriate shimming points to ensure the dead load of the pod is transmitted correctly.
SITE HANDLING

The best way to install the bathroom pods is when they are craned upon just-in-time delivery directly from the trailer into final location, via vertical installation, avoiding storage and consequently unnecessary handling on site.

On the construction site, prefabricated bathroom pods can also be craned on to scaffold landing platforms or cantilever gantries which have been placed level with the floor structures where the pods are to be finally positioned. As an alternative, they can be craned on to hoist platforms which lift them to the appropriate level.

From the landing area, the pods can be moved to their final installation positions or to a storage area.

Shims or pads may be used by the contractor at designated locations to adjust the final floor level of the pod.
PROJECTS

Our SCC Offsite Pod Division is headed by Renato Pasotti, an experienced senior specialist, who has been working in the offsite bathroom pod construction market since 1994, in Europe as well as in the Middle East, delivering best quality customized offsite bathrooms to leading Main Contractors and Hotel Developers, such as, but not limited to, InterContinental Hotels Group, Marriott International, Radisson Hotel Group and AccorHotels.
Head Office, Sales and Marketing:
P.O. Box 3893,
Riyadh 11481
Saudi Arabia

Contacts:
Tel. +966 11 8298888
Fax +966 11 4627569

✉️  info@saudiceramics.com
🌐  saudiceramics.com
/facebook(saudiceramics)
/others(920011124)