

SMART
PODS
by Saudi Ceramic Co.

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Saudi Ceramics

WHO WE ARE, WHAT WE DO

Smart Pods 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, hotel developers and companies, such as but not limited to InterContinental Hotels Group, Hilton Hotels & Resorts, Marriott International, Radisson Hotel Group and AccorHotels.

As you know, in any hotel, healthcare or multi-residential project, traditional bathroom construction on site is a very critical path for main contractors, developers, investors and end users.

Our mission is to expand through innovation, and to take part in the growth of the modular construction sector in the Kingdom of Saudi Arabia as a problem-solving task force in order to improve the efficiency and quality of the building industry.

We manufacture top-quality, factory controlled lightweight modular steel framed bathroom units, combining build quality, sustainability and efficiency at competitive prices, according to the international and national standards and quality requirements for the hotel, healthcare and residential building sector in the Kingdom of Saudi Arabia.

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.



Saudi Ceramic Company



Founded in 1977, Saudi Ceramic Company is a leading provider of quality building materials and solutions which include various types of ceramic products (ceramic tiles, porcelain tiles, sanitary wares and accessories), electric water heaters, bathroom fittings, including baths, shower trays, mirrors and mixers. Other products include plastics, red bricks and ready-made offsite bathroom pods.

With over 42 years of experience, the Company has gained a well-deserved reputation for manufacturing quality with high standards both nationally and internationally.

Saudi Ceramic Company is the largest manufacturer of its kind in Saudi Arabia and a well-recognized brand.

State-of-the-art investments, quality, customer service and satisfaction are the trademarks of its long-term visionary philosophy.

FACTORY AT A GLANCE



Our manufacturing plant based in the New Industrial Area of Riyadh ensures adequate production capacity of supplying high-quality bathroom pods at affordable prices to meet the needs of any new construction project, whether large-scale or small, fast-track or spread out over time.

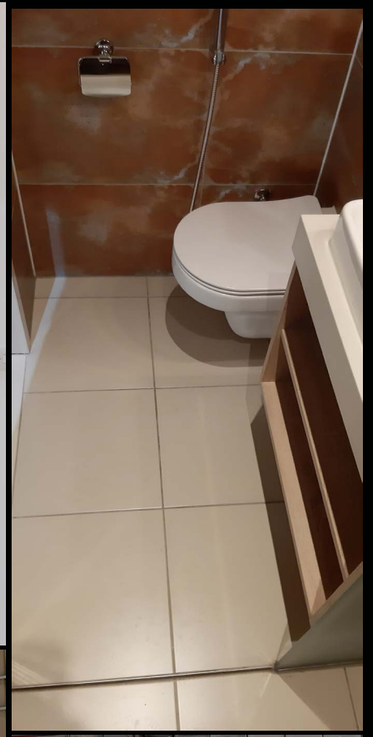
What is more, we provide Factory-in-a-Box solutions for flexible, quick and mobile manufacturing capacity on demand, whenever and wherever needed.

SMART **PODS**

The **Smart Pods** 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.















ADVANTAGES

1 SIGNIFICANTLY REDUCED CONSTRUCTION TIMES.

In any hotel, healthcare or multi-residential project, bathroom construction is usually a very critical path. 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 can be installed in less than 20 minutes. Consequently, there can be major savings in construction overheads and financial costs.

2 CERTAINTY OF COSTS.

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

3 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.

4 BENCHMARK POD.

In order to avoid any mistake or misunderstanding in the final equipping of the bathroom unit, 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.

5 GUARANTEE.

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

6 SIMPLE LOGISTICS.

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

7 CLEANING AND PROTECTION.

The smart pods are thoroughly cleaned prior to delivery. During transportation by trailer, 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 smart pod, where all service connections are located outside the bathroom, 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 LABOR.

Minimal skilled labor 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, et cetera.

12 FLEXIBILTY.

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 your "made-to-measure" offsite bathroom pod.

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 for future maintenance.

15 BUILDING MATERIALS AND SOLUTIONS.

All building materials and solutions provided by one single local source.

16 MADE IN KSA.

And proud to contribute to the Saudi Vision 2030.

PRODUCTION PROCESS

We have developed a highly efficient offsite cold formed steel framing production concept within our main manufacturing plant, where the strip steel is fed through powerful forming machines which shape it into a channel profile, which is automatically equipped with 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.

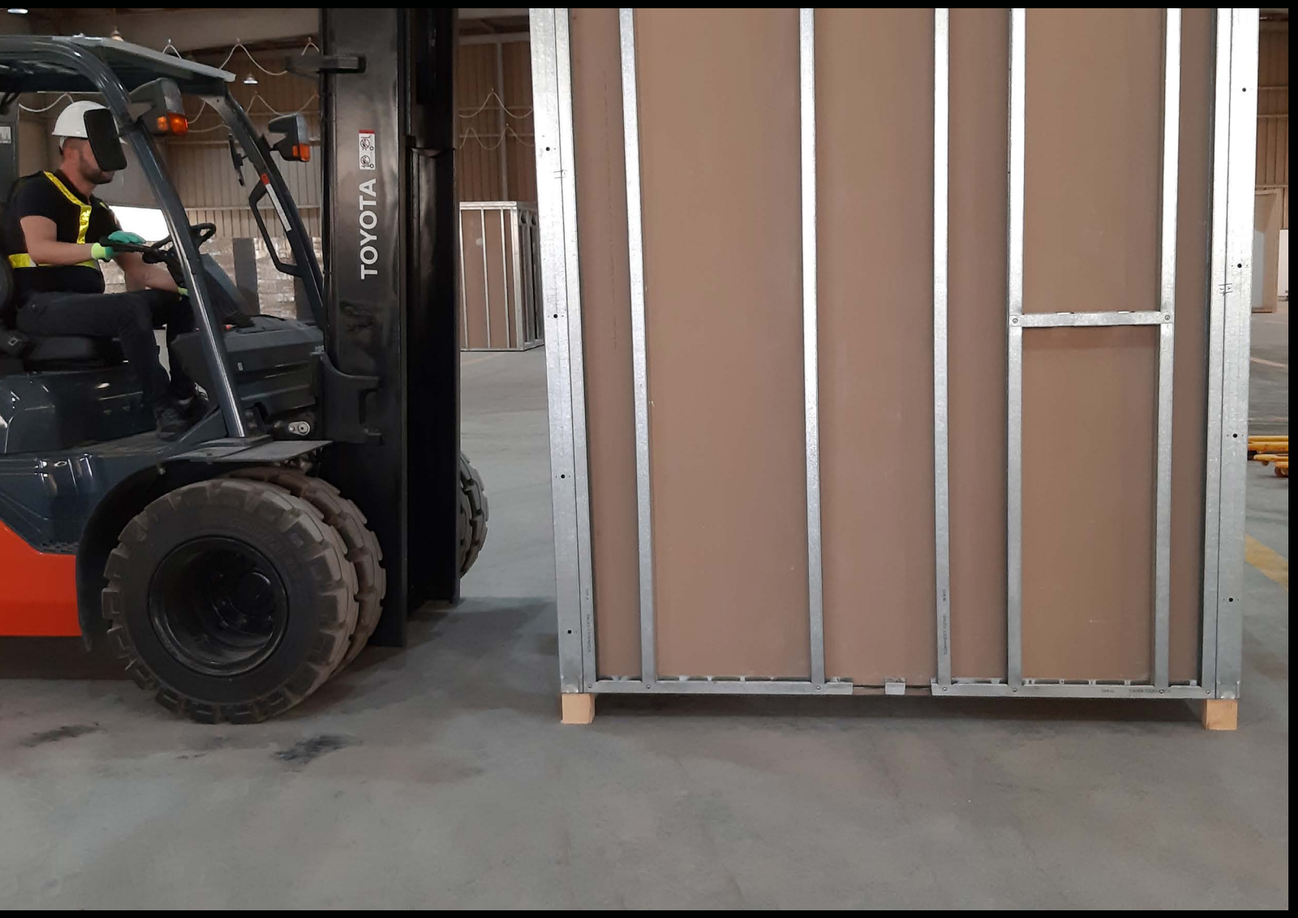
The walls are lined with building boards which are machine-cut before being wheeled to the panel assembly area and fixed with self-tapping screws.

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 smart 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 smart 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 AND DELIVERY



TESTING

All Smart 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 before shipment to the construction site. On its journey up the assembly line, each individual smart pod is constantly 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 can differentiate between a factory-made bathroom pod and a bathroom built on site.



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 must be offloaded by site crane using lifting slings, generally at a rate of about 4 pods per hour.

Forklift off-loading should be strictly avoided.

When offloading by crane has been specified, we supply all necessary lifting apparatus and assistance on site.

When the pod has been offloaded, 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 smart 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 smart 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

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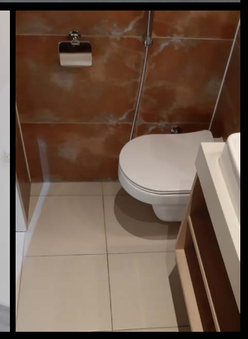


Smart Pod for Hotel









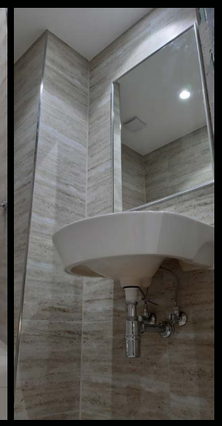
Smart Pod for Management Village



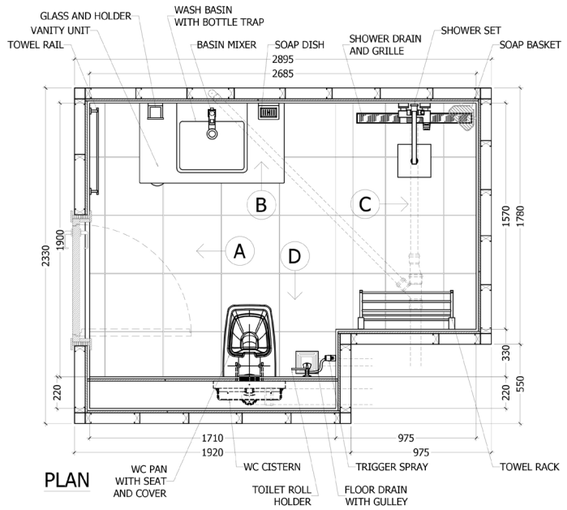




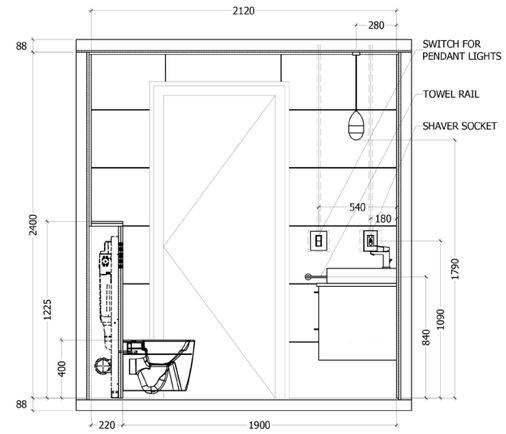




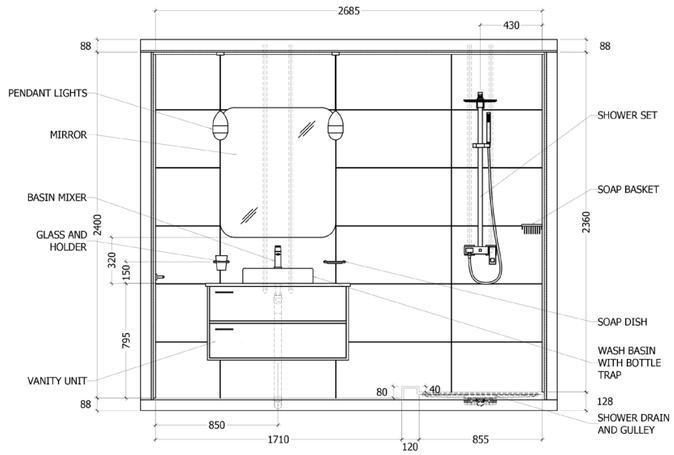
Smart Pod for Workers Accommodation



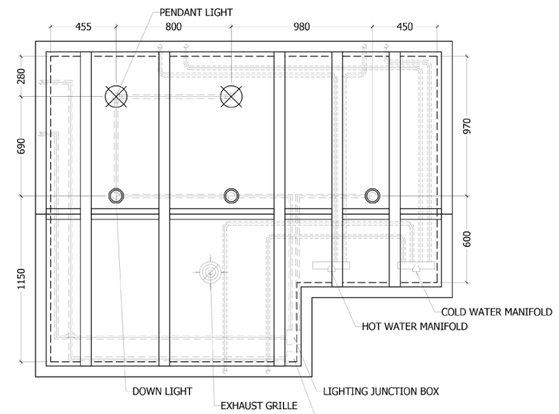
PLAN



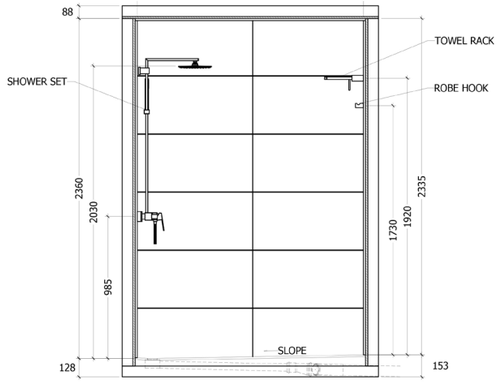
VIEW A



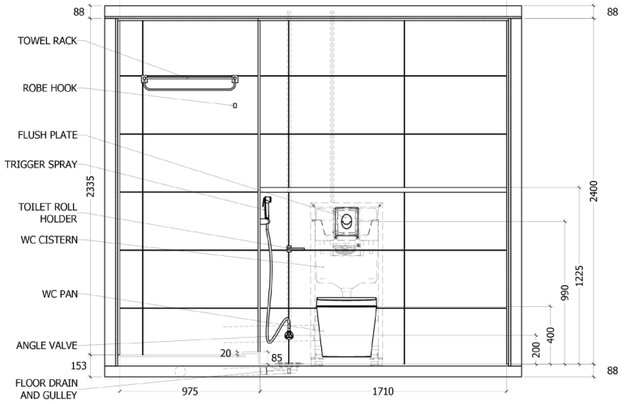
VIEW B



REFLECTED CEILING PLAN



VIEW C



VIEW D

A1 01	**AS - BUILT PLAN**
SCALE	1:20 MM

REVISION NO: 1	FOR APPROVAL	DATE :	19-AUGUST-2019
REVISION NO: 2	–	DATE :	–
REVISION NO: 3	–	DATE :	–
REVISION NO: 4	–	DATE :	–

CODE	ISSUED FOR:	DATE :	BY:
C	SUBMITAL FOR CONSTRUCTION	2019	–
B	SUBMITAL OF TENDER DOCUMENTS	2019	–
A	SUBMITTED FOR APPROVAL	19-AUG-2019	XD

SMART PODS

PODS DEPARTMENT

PROJECT TITLE:

MOCK-UP
HILTON DOUBLE TREE

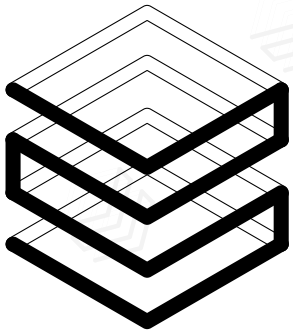
DRAWING NAME:

AS-BUILT MOCK-UP

DRAWN BY :	XYMOUND DE LEON	DATE :	AUG. 19, 2019
NOTED BY:	N. A.	DATE :	–
CHECKED BY :	MR. RENATO PASOTTI	DATE :	–
APPROVED BY :	MR. RENATO PASOTTI	DATE :	–

SCALE: 1 : 20 MM

SHEET NO. PODS-19001



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