



ModuBath® – Smart, Efficient, Compliant Modular Bathroom Solutions

by USET Solutions

PRODUCT OVERVIEW



ModuBath is a fully integrated, pre-fabricated bathroom unit, precision-manufactured off-site to minimize on-site labor and accelerate project delivery. Designed for consistency, efficiency, and durability, each ModuBath unit is delivered as a complete, waterproofed solution, ready for plug-and-play installation.

KEY FEATURES

Complete Integration

- Pre-installed plumbing, electrical, tiling, sanitaryware, cabinetry, waterproofing, and lighting
- Factory-quality assurance and minimal on-site intervention

Australian Standards Compliant

- Fully meets **AS 3740:2021** for waterproofing
- Complies with **AS/NZS 3500** for plumbing and drainage
- Electrical installations per **AS/NZS 3000 (Wiring Rules)**
- Tiles and materials meet **AS 3958** for ceramic tiling

WaterMark Certified Components

- All plumbing fittings and fixtures are **WaterMark certified**, ensuring product quality, safety, and compliance with National Construction Code (NCC)

Customizable Configurations

- Layouts available for studio, 1BR, 2BR apartments, student dorms, hotel suites, and aged care
- Finish options: matte or gloss tiles, stone or acrylic benchtops, frameless or semi-framed shower screens
- Optional add-ons: grab rails, smart mirrors, bidet, sensor lighting, underfloor heating

Fast & Clean Installation

- Delivered with lifting lugs, forklift base frame, and service connection points
- Can be installed in under **3 hours per unit**
- Ideal for high-volume, repetitive layouts

TECHNICAL SPECIFICATIONS

Parameter	Specification
External Dimensions	1.8m–3.0m (W) x 2.0m–2.8m (L) x 2.4m (H)
Waterproofing System	2-layer with membrane & bond-breaker
Structural Base	Steel chassis with anti-rust coating
Wall Panels	Marine-grade fiber cement / HPL panels
Floor Finish	Slip-resistant porcelain tiles
Electrical	Fully prewired, LED, GPO, exhaust fan
Plumbing	PEX piping, dual flush cisterns
Transport	Forkliftable or crane-liftable



Color Steel System

- **Chassis:** Utilizes fiberglass chassis or PU foam with ceramic tile overlay, offering high strength and a solid, non-hollow feel.
- **Wall Panels:** Employ a steel plate film-lamination process with high-temperature thermal bonding, ensuring no peeling or easy scratching. They provide excellent thermal insulation, heat resistance, soundproofing, corrosion resistance, and antibacterial properties.



Tile System

- **Base Plate:** Uses a fiberglass base plate with tile overlay or PU foam with tile overlay, providing high strength and a solid, non-hollow feel.
- **Wall Panels:** Made by directly bonding tiles with a PU base material or aluminum honeycomb core, ensuring high strength.

Bathroom Base Panels



Steel Chassis

The steel chassis is constructed with steel plates + ceramic tiles.

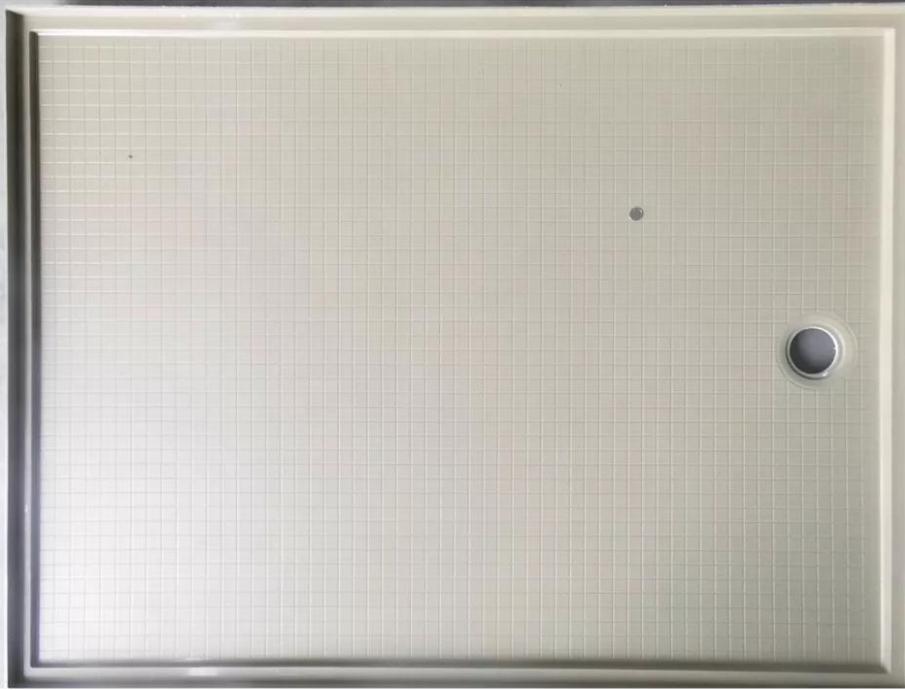
- The chassis is formed by integral bending, providing excellent waterproofing.
- Not limited by standard dimensions; customizable based on layout.
- Structural composition: Reinforced square tube frame + plastic honeycomb + resin gel coat.
- Composite material molded as one piece, ensuring superior waterproof performance.
- Integrated finish and main material, with a smooth surface for easy cleaning.
- High strength and lightweight—only 50% the weight of a standard steel chassis.
- No shape restrictions, fast mold production.



Fiberglass Chassis + Tile Structure

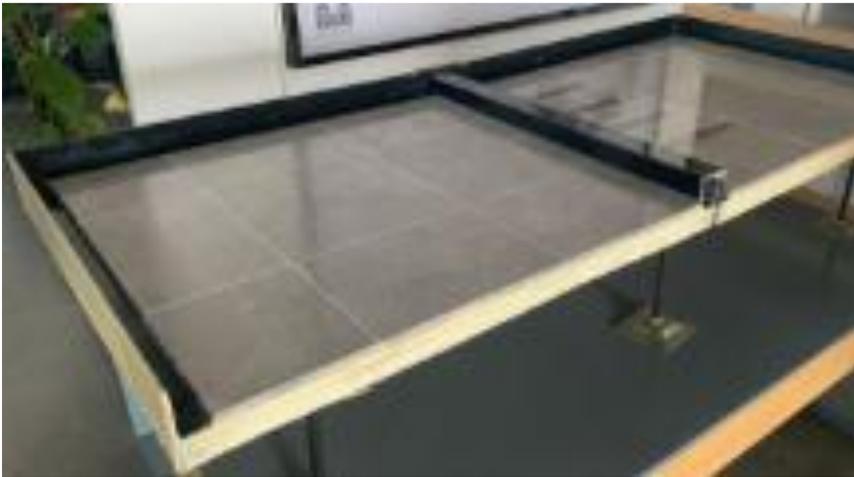
Structural composition: Reinforced square tube frame + plastic honeycomb + resin gel coat + tiles.

- Production capacity: **200 pcs/day**
- No shape restrictions, fast mold production.



SMC Chassis

- One-piece compression molding for high processing efficiency and low cost.
- Lightweight, easy to transport and install.



Polyurethane Foam + Floor Tiles

- Uses high-strength polyurethane foam as structural and adhesive material.
 - Finished surface: Ceramic tiles.
 - No dimensional restrictions, customizable based on layout.
 - Lightweight, easy to transport and install.
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APPLICATIONS

- Hotels & Motels
- Build-to-Rent & Social Housing
- Student Accommodation
- Boarding Schools & Staff Housing
- Modular Construction Projects



Ramada Encore Hotel, UK



Green Sun Hotel, Philippines



Marriott Hotel, Germany



Smartino Hotel, Germany

ADVANTAGES



- ✓ Faster Project Turnaround
 - ✓ Higher Quality Control
 - ✓ Reduced Site Disruption
 - ✓ Lower Labour Costs
 - ✓ Greater Sustainability
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QUALITY & COMPLIANCE

ModuBath is manufactured under ISO 9001:2015 Quality Management System and all components are sourced from certified suppliers. Every unit undergoes rigorous testing before dispatch.

WaterMark Certified
AS/NZS Compliant
Ready for State/Local Building Approval

KEY CONTROL POINTS

Elevation, Section, and Composite Diagram of Aluminum Honeycomb Panel

1. Elevation Benchmark: Provide the 1-meter finished floor level (FFL) reference line and confirm the final surface height.
 2. Water Supply: Water pipe interfaces must be reserved, typically above the ceiling.
 3. Electrical Supply: Reserve interfaces and provide at least 1 meter of excess wire, usually above the ceiling.
 4. Same-Floor Drainage: Install drainage pipe tees and strictly control elevation to avoid backflow.
 5. Upper/Lower-Floor Drainage: Pre-drilled openings must be accurately positioned, with a tolerance of $\leq 30\text{mm}$.
 6. Site Preparation:
 - Bathroom floor must be level and square, with no major deviations.
 - Ensure the area is clear of debris.
 7. Installation Sequence:
 - Base frame installation first, followed by bathroom partition wall construction.
 8. Equipotential Bonding: Position the bonding point within the vanity cabinet cutout.
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INTEGRATED BATHROOM INSTALLATION PROCEDURES



1. Work surface inspection and cleaning



2. Marking: Layout base pan positioning lines and finished floor elevation reference lines



3. Base pan positioning



4. Base pan protection



5. Wall panel installation



6. Plumbing system connection



7. Ceiling installation



8. Window opening cutting



9. Window frame installation



10. Hardware and electrical fixtures installation



11. Sanitary ware installation



12. Sealant application and final cleaning

DELIVERY & SUPPORT

- **Lead Time:** 4–6 weeks from order confirmation
 - **Warranty:** 10-Year Waterproofing, 5-Year Fixtures
 - **Support:** Shop drawings, BIM files, and technical consultation available
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CONTACT US



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