

INFORMATION AND DOCUMENTS REQUIRED FOR THE DESIGN OF BATHROOM PODS

In the context of the collaboration between designers (architects, MEP engineers, etc.) and end-users in a prefabricated construction project, it is crucial to ensure **effective communication** and **close cooperation** to guarantee the project's success.

Below are key points outlining the information required by the prefabricator from the architect and the MEP engineers, and vice versa, along with the preliminary and final approval phases of the Mock-Up Bathroom Pod.

Information / Documents Required from the **Architect**

1. ARCHITECTURAL PROJECT DOCUMENTATION

- ✓ **Floor plans and sections** of the building
- ✓ **Floor slab build-up section** (to determine the available space for the concrete base of the bathroom pod)
- ✓ Any **detailed drawings** of the bathroom already included in the project

2. FUNCTIONAL AND AESTHETIC REQUIREMENTS

- ✓ **Descriptive specifications** of bathroom fixtures and fittings (if already available)
 - i. Taps and mixers
 - ii. Sanitaryware
 - iii. Accessories
 - iv. Bathroom furniture and mirrors
- ✓ **Energy saving requirements** for taps and mixers

3. PERFORMANCE REQUIREMENTS

- ✓ Acoustic performance
- ✓ Fire resistance and compartmentation type

Information / Documents Required from the **Mechanical Engineer**

1. MEP PLANS AND SPECIFICATIONS:

- ✓ Domestic water supply, including hot water recirculation (if applicable)
- ✓ Ventilation / air extraction
- ✓ Heating systems
- ✓ Coordination of the technical shaft

Information / Documents Required from the **Electrical Engineer**

1. ELECTRICAL PLANS AND SPECIFICATIONS:

- ✓ Electrical circuits with possible separation between lighting and power sockets
- ✓ Electrical wiring accessories (e.g. switch and socket series)
- ✓ Lighting fixtures and/or lighting performance requirements
- ✓ Coordination of the connection to the building's main electrical system

Preliminary Approvals

1. APPROVAL OF ARCHITECTURAL DESIGN

The prefabricator evaluates and confirms the technical feasibility of the proposed architectural design by producing the first draft of the executive drawing of the Mock-Up Bathroom, leading to a final confirmation by the site supervisor and the client for the production of the mock-up.

2. APPROVAL OF MEP DESIGN

The prefabricator ensures that all MEP requirements are effectively integrated and produces the executive MEP drawings of the Mock-Up Bathroom, to be approved by the MEP supervisor and the client before starting production.

3. MOCK-UP BATHROOM POD APPROVAL

1. Design and functional check also by the final user (e.g. nursing homes, hospitals, etc.)
2. Control of the implementation of the agreed construction details
3. Approval of the production and quality standards of finishes
4. Inspection of systems and connections to the building's main networks

A **close collaboration** between architects, MEP engineers, and prefabricators is essential to ensure that the prefabricated bathroom meets expectations in terms of design, functionality, performance, and construction quality.

The **preliminary approval** and **mock-up bathroom pod** approval phases play a crucial role in ensuring a smooth project process that meets the end client's requirements.

A good exchange of information and early-stage collaboration among all stakeholders will lead to a mock-up bathroom approval process with minimal revisions.