PREFABRICATED BATHROOMS IN FUTURE CONSTRUCTION

Choose prefabricated bathrooms for your construction project for a successful and well-executed project from start to finish.

Green Box
BATHROOMS OF THE FUTURE

www.greenboxnorge.no

WHY GO FOR PREFABRICATED BATHROOMS?

Reasons to go for prefabricated bathrooms rather than bathrooms produced in situ include cost and time savings – and also environmental considerations are increasingly playing a role. The construction of the future requires documented resource efficiency and lower environmental impact. Therefore, we see a growing interest in prefabricated solutions that can help reduce material waste and optimize energy consumption on the construction site.

The production of prefabricated bathrooms is standardised and can take place concurrently with other phases of a construction project. This ensures optimised project planning and timely execution, even allowing the construction period to be shortened. Batch production also guarantees:

- High quality and finish across bathrooms, which can otherwise be difficult to achieve.
- Possible customisation of series of bathrooms tailored to the exact style and needs of specific projects.
- Reduced waste volumes, energy consumption and working time on the construction site.
- More precise resource utilisation and less waste on the construction site.

STRONG REASONS TO GO FOR PREFABRICATED BATHROOMS

Shorter construction times and lower costs	Consistent high quality and finish	Less environmental impact and optimised use of resources

PROJECT EXECUTION FROM A-Z

Construction projects are complex, and success depends on careful planning and management. This is crucial to the successful execution and completion of construction projects within the agreed budgets and time frames.

Professional project and budget management tools, communication platforms and document management systems are essential. A proven and documented project execution process with defined clarification phases is also an important factor for all stages and sub-elements of construction. All involved project parties need to be involved in the process.

For inspiration, below we present an overview of the six-step project execution process developed by Green Box. A process that is based on solid experience and always executed in close collaboration with our customers – ensuring careful consideration of all aspects and decisions before the batch production of project-specific bathrooms commences.

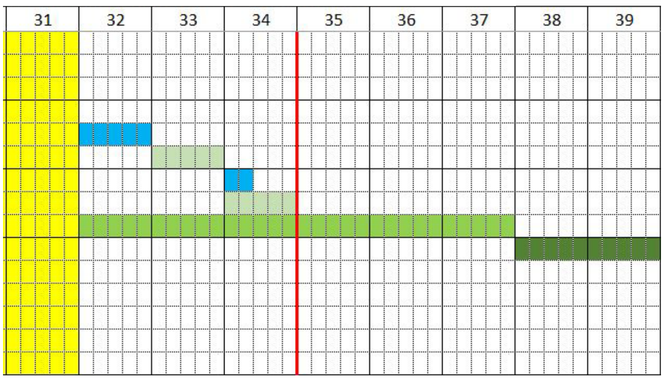
STEP 1-3

1. KICK-OFF MEETING

After the contract is signed, all projects begin with a meeting. This is attended by our project manager, and we carefully go through all project details with the customer, including:

- Number of bathrooms
- Variants and flips
- Materials and design
- Electricity, plumbing and ventilation installations
- Budget, timetable and delivery deadlines

Project execution plan for bathroom for ****



2. DESIGN & PLANNING

After the kick-off meeting, our project manager works closely with our production planner and drawing office to develop the final production plan, drawings and design for the complete bathrooms. We work with two types of project execution plans – a standard plan, and an expanded plan for hotels and assisted-living facilities, which typically involve multiple project parties.

All design work is done in 3D. The customer receives interior and exterior perspective drawings, showing all technical installations and choice of materials, for approval before the bathrooms are put into production.

3. REFERENCE BATHROOM

Once the drawings are approved, a bathroom is produced. This is first approved internally. The involved project parties are then invited to inspect it together with the project's permanent Green Box project manager.

Any necessary adjustments are made to the drawings, after which production commences.

STEP 4-6

4. PRODUCTION COMMENCES

When batch production begins, all production employees have digital access to our quality assurance system, containing photo documentation, drawings and quality control points. Quality assurance is carried out at all workstations. A final inspection is conducted by our QA department.

At the start of production, each bathroom is assigned a unique ID, which is accessible via a QR code. This allows everyone involved in the project to track each bathroom all the way through production and out to the construction site.

5. FIRST DELIVERY & INSTALLATION

Our service employees are present on the construction site for the first delivery.

They are ready to advise on unloading and handling of the finished bathrooms.

The bathrooms are inspected inside and out. Finally, system keys for the locked bathrooms are handed over.

6. COMPLETION

Projects are always wrapped up in collaboration with our project manager.

The service team travels to the construction site and performs a defect inspection.

A QR code in the bathroom gives all relevant project parties, including the client, contractor, facility manager and residents, access to all documentation, drawings, equipment lists and quality control history for each bathroom.

BATHROOMS OF THE FUTURE

Green Box produces prefabricated bathrooms in an innovative and lightweight design with cast concrete floors.

We are working purposefully to develop solutions that support a construction process focused on efficient resource utilization and reduced environmental impact – benefiting both the economy and the climate. Prefabrication is a step toward a construction process in which the total CO_2 emissions can always be documented across the production, transportation, and assembly phases.

That is why we call our bathrooms **THE BATHROOMS OF THE FUTURE**.

We offer builders, contractors, and architects prefabricated bathrooms with a high degree of design flexibility, reducing time and coordination on the construction site and helping to lower the overall CO_2 impact of the construction.

WEIGHT: 325 KG/M2

INSTALLATION HEIGHT: 95 MM

3 KG CO2 / M2 / YEAR

12 FACTS ABOUT THE BATHROOMS OF THE FUTURE

1. The bathrooms feature a lightweight construction with walls and ceilings made from a combination of galvanised steel and Fermacell. Only the floors contain a reduced layer of concrete. This means that our standard bathrooms weigh only 325 kg/m^2.

2. The lightweight construction results in bathrooms that, as standard, have a calculated CO2 emission of approximately 3 kg CO2/m2/year. The calculation is based on standard data and assumes typical conditions of use. Documentation is available on request.

3. An LCA calculation can be prepared for each bathroom.

4. With a low standard installation height of just 95 mm, the bathrooms make it possible to pare down a building's structure and inter-floor spacing, thereby reducing material consumption.

5. The closed steel construction and UV-resistant packaging protect the bathrooms from weather and water ingress. The bathrooms can therefore be left outside or in an open building shell in all weather conditions for up to six months.

6. Green Box bathrooms are produced with materials that meet the requirements for use in Nordic Swan Ecolabelled construction and are suitable for use in DGNB-certified construction projects.

7. Every bathroom undergoes thorough quality assurance several times during production, and all documentation is registered digitally.

8. A QR code gives all project parties quick and easy access to all documentation, drawings, equipment lists and quality control history for each bathroom. Before, during and after production.

9. All bathrooms are produced in Denmark.

10. The only lightweight, prefabricated bathrooms produced in Denmark to have a SINTEF approval.

11. Batch-produced and tailored to each specific project, with great architectural freedom in terms of design, choice of materials and positioning of technical installations.

12. Flexible and easy to install. A dedicated service team is ready to help on the construction site when the first bathroom is delivered and installed.

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WE ARE READY TO ADVISE YOU

If you have any questions or need guidance, you are always welcome to contact us.

As experts in prefabricated bathrooms, we offer professional advice that can help you create the best possible bathroom solution for your building project and steer your project safely to completion.

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