

GREEN BOX AND DGNB

- Your overview

PROCESS QUALITY

CRITERION	ITEM	WEIGHTING	HOW GREEN BOX CONTRIBUTES TO YOUR DGNB CERTIFICATION
<p>PRO1.1 Comprehensive project brief</p>	<p>ITEM 2 Sustainability goals</p>	<p>Max 0,1%</p>	<p>Set ambitious goals and requirements in your design and project planning and tender documents – Green Box can, for example, contribute with the following:</p> <p>Reuse and recycling/Circular economy:</p> <ul style="list-style-type: none"> · Fittings and sanitary installations can be dismantled at end-of-use phase and be included in the circular cycle. · All product information and drawings for each individual bathroom are available via a unique QR code attached to each bathroom. · From the end of 2026, Fermacell and steel can be separated. Fermacell can be recycled for the production of new Fermacell boards, and steel can also be recycled. · If the building is subsequently constructed, the light construction of the bathrooms makes it possible to dismantle the total cabin for refurbishment in three scenarios. <p>1. Upgrade for recycling in the same building The bathrooms can be removed from the shell structure and be transported for refurbishment in the factory, after which the newly renovated bathroom can be reinstalled in the original building. Alternatively, the bathrooms can be renovated/upgraded on site.</p> <p>2. Upgrade to recycling in new building The bathrooms can be removed from the shell structure and be transported for refurbishment and modification in the factory, after which the newly renovated bathroom can be reinstalled in a new building.</p> <p>3. For deconstruction There is explosion drawing of construction – see TEC 1.6.</p> <p>Minimisation of resource consumption and waste generation:</p> <ul style="list-style-type: none"> · All cables and hoses are shortened in advance. · Fermacell is primarily delivered to us in special dimensions – all waste is directly recycled into new Fermacell boards. · All clippings from our steel plant are recycled directly. <p>Minimisation of climate footprint:</p> <ul style="list-style-type: none"> · Consumption of concrete on the static structures of the building can be reduced due to the low weight of the bathrooms. · Green Box bathrooms are produced in Denmark, thereby reducing CO₂ emissions and climate impact on the road network. <p>Minimisation of drinking water consumption: Green Flow, our water-saving toilet, can reduce water consumption and wastewater discharge by up to 27% in a home.</p> <p>Minimisation of use of environmentally hazardous substances: Green Box only uses materials approved for Nordic Swan Ecolabelled construction and can also provide EPDs for all materials.</p> <p>Flexibility for technical installations, maintenance and recyclability: Our bathrooms are constructed with easy access to all the technical installations and are delivered with all the necessary information, making maintenance and recyclability easy.</p>
<p>PRO1.4 Sustainability aspects in tender phase</p>	<p>ITEM 1 Sustainability aspects in tender documents</p>	<p>Max 0,9%</p>	<p>Minimisation of resource consumption and waste generation:</p> <ul style="list-style-type: none"> · All cables and hoses are shortened in advance. · Fermacell is primarily delivered to us in special dimensions – all waste is directly recycled into new Fermacell boards. · All clippings from our steel plant are recycled directly. <p>Minimisation of climate footprint:</p> <ul style="list-style-type: none"> · Consumption of concrete on the static structures of the building can be reduced due to the low weight of the bathrooms. · Green Box bathrooms are produced in Denmark, thereby reducing CO₂ emissions and climate impact on the road network. <p>Minimisation of drinking water consumption: Green Flow, our water-saving toilet, can reduce water consumption and wastewater discharge by up to 27% in a home.</p> <p>Minimisation of use of environmentally hazardous substances: Green Box only uses materials approved for Nordic Swan Ecolabelled construction and can also provide EPDs for all materials.</p> <p>Flexibility for technical installations, maintenance and recyclability: Our bathrooms are constructed with easy access to all the technical installations and are delivered with all the necessary information, making maintenance and recyclability easy.</p>

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PRO1.5 Documentation for sustainable management	ITEM 1 Guidance on maintenance, inspection and operation	Max 0,25%	All drawing documents, lists of parts, quality assurance, image documentation and D&V can be accessed directly via a QR code attached to the individual bathroom. All manifolds can be placed in the ceiling and accessed via ceiling hatches – this ensures easy maintenance and protects the building from water damage.
	ITEM 2 Updating of drawings, tables, calculations and other documentation	0,25%	We draw everything right down to the smallest detail and create a reference bathroom, which is approved by the developer. The bathrooms are then produced 100% as approved, as the elements are produced on an automatic steel plant.
	ITEM 3 Facility Management (FM) manual	0,38%	We supply a full documentation package for operation and maintenance, including EPDs on fittings. In addition, both operators and residents can use the documentation package, which is accessed via QR code, which is unique to each bathroom.
	ITEM 4 Planning of operations using BIM	0,13%	All drawing documents can be accessed via a QR code in the individual bathrooms. Green Box draws all bathrooms in 3D and can export the files in the customer's desired format – e.g. IFC files.
PRO2.1 Construction site/ Construction process	ITEM 1 Minimisation and sorting of waste at the construction site	Approx. 0,31%	When using prefabricated bathrooms, all packaging for tiles, sanitation, installations etc. is removed from the construction site. In the production of the bathrooms, we are constantly working to minimise wastage and waste in our own production.
	ITEM 2 Low noise and vibration levels at the construction site	Approx. 0,31%	Using prefabricated bathrooms means that a lot of noise is removed from the construction site – this applies to all noise from cutting of materials for bathrooms, including adjustment of tiles with wet cutter and angle grinder.
	ITEM 3 Construction site with low dust level	Approx. 0,31%	
PRO2.4 User communication	ITEM 1 Energy and water-saving guidelines for users	0,1%	Green Box's standard range of fittings complies with requirements in accordance with the EU taxonomy for water consumption for mixers and cisterns etc.

ENVIRONMENTAL QUALITY

CRITERION	ITEM	WEIGHTING	HOW GREEN BOX CONTRIBUTES TO YOUR DGNB CERTIFICATION
ENV1.1 Building life cycle assessment	ITEM 1.1 LCA results in relation to benchmarks	Unknown	The LCA is project-specific. As input to the LCA calculation, you will need information about material quantities for: <ul style="list-style-type: none"> Galvanised steel Concrete Fibre gypsum We can supply EPDs on all materials. <p>As our bathrooms are prefabricated, we can reduce material consumption and waste by an average of 10% relative to the production of bathrooms on site.</p>
	ITEM 1.2 Climate bonus	Unknown	With bathrooms from Green Box, a reduction of 550-850 kg of CO ₂ emissions can be achieved per average delivery of seven bathrooms – due to the low weight of the bathroom and because it is produced in Denmark. <p>In the construction of the building, a significant climate footprint reduction can be achieved due to a reduction in resource consumption for two reasons:</p> <ol style="list-style-type: none"> As our bathrooms are prefabricated, we can reduce material consumption and waste by an average of 10% relative to the production of bathrooms on site. Consumption of concrete in the static structures of the building can be reduced due to the low weight of the bathrooms. For example, floor decks and floor construction are slimmed down to maximum 16 cm, so that all walls can be reduced in height, thus saving concrete. <p>The construction time can be shortened significantly, as we produce in parallel with the construction of the building. Our time consumption for a prefabricated bathroom is 40 hours. We estimate that the production of bathrooms on site takes 100 hours, thus reducing the time consumption by 60% as well as the number of construction site workers. This means that transport to and from the construction site is reduced.</p>
	ITEM 2 LCA for further phases (A4 Transport to construction site)	0,48%	Our production is located in Denmark and close to our three main markets (DK, SE, NO). We can provide data on transport from production site to construction site for use in LCA calculation of phase A4 Transport to construction site.
ENV1.2 Local environmental impact	ITEM 1 Pollutants and hazardous substances	Up to 4,5%	We only use materials that meet the strict requirements of the Nordic Swan Ecolabel and are approved for Nordic Swan Ecolabelled construction. We report sustainability data to Byggvarebedömningen and SundaHus.
ENV1.3 Sustainable resource extraction	ITEM 1.2 Natural stone from documented responsible origin		Green Box does not use natural stone in our bathrooms.
ENV2.2 Potable water demand and waste water volume	ITEM 1 Potable water demand and waste water volume	Up to 2,13%	In addition to an option for e.g. water-saving mixers in your bathrooms, you can easily choose Green Flow as an add-on. Green Flow is a water-saving toilet that can reduce water consumption and waste water discharge volume by up to 27% in a home without a risk of clogged discharge pipes.

ECONOMIC QUALITY

CRITERION	ITEM	WEIGHTING	HOW GREEN BOX CONTRIBUTES TO YOUR DGNB CERTIFICATION
ECO1.1 Life cycle cost	ITEM 2 Life cycle cost optimisation	0,96%	<p>Green Box bathrooms weigh only 325 kg/m² – the statical structures of the building can thus be slimmed down considerably. Quantities of concrete and price are significantly reduced, which can be seen in the life cycle cost of the construction project.</p> <p>The bathrooms can be supplied with prefabricated technology shafts containing all technical installations – thus reducing construction costs and construction time.</p> <p>By using Green Box bathrooms instead of bathrooms produced on site, you can achieve a total economic saving:</p> <ul style="list-style-type: none"> · Quantities of materials and waste are reduced by 10% on average. · Production time is reduced by 60% on average.
	ITEM 2.2 COE bonus	0,99%	<p>From the end of 2026, Fermacell and steel can be separated. Fermacell can be recycled for the production of new Fermacell boards, and steel can also be recycled.</p>
	ITEM 3 Building-related life cycle costs	Unknown	<p>Green Box bathrooms come with fully insulated connecting hoses, so that heat loss is reduced relative to concrete cast bathrooms.</p> <p>Ceilings can be delivered in steel – which means that there is no maintenance and that cleaning is easy for residents in the building.</p>
ECO 2.1 Flexibility and adaptability	ITEM 6 Construction	0,32 %	<p>Green Box contributes to great flexibility in load-bearing construction, as the bathrooms with any technology shaft have max. one stabilising wall.</p>
	ITEM 7 Technical installations – Flexibility	Up to 2,58%	<p>Our bathrooms can be made with all technical installations assembled in a prefabricated shaft that is large enough for components to be replaced. This means a high degree of replacement flexibility and only requires minor structural changes.</p> <p>Only floor heating hoses cast in the floor construction require extensive structural change in connection with conversion.</p>
ECO2.2 Commercial viability	ITEM 2 Robust solutions	0,32%	<p>The floor construction in Green Box bathrooms is made as a heavy construction in accordance with SBI Guidelines 252 for wet rooms. The bathrooms are therefore categorised as heavy wet rooms built with heavy construction.</p>
	ITEM 4 Building technical execution – extent of defects in connection with handover	0,64%	<p>Green Box has average complaint costs of 2.7% of the revenue, which is extraordinarily low for the industry.</p>

SOCIOCULTURAL QUALITY

CRITERION	ITEM	WEIGHTING	HOW GREEN BOX CONTRIBUTES TO YOUR DGNB CERTIFICATION
SOC1.2 Indoor air quality	ITEM 1 Degasification from building materials	Up to 1,01%	<p>The bathrooms are painted in our factory halls, which means that there is no degasification on the construction site or in the finished building.</p> <p>Only materials approved for use in Nordic Swan Ecolabelled buildings are used. Therefore, we do not expose our own employees or residents in the finished building to toxic chemicals and gases.</p>
SOC3.3 Plan layout and infrastructure	ITEM 2 Quality of areas of application	0,22%	<p>Our bathrooms are made as standard with allocated space for both dryer and washing machine.</p> <p>Our bathrooms are easily adaptable to disabled users.</p>

TECHNICAL QUALITY

CRITERION	ITEM	WEIGHTING	HOW GREEN BOX CONTRIBUTES TO YOUR DGNB CERTIFICATION
TEC1.1 Fire safety	ITEM 2 Additional fire safety	0,19%	Green Box does not use any PVC-containing materials.
TEC1.4 Use and integration of building technology	ITEM 1 Accessibility to technical installations	Up to 0,84%	Our bathrooms can be made with all technical installations assembled in a prefabricated shaft that is large enough for components to be replaced. There is good accessibility via a hatch in the wall or ceiling.
TEC1.5 Design for maintenance and cleaning	ITEM 5 Easy-to-clean interior	0,18%	<p>Green Box bathrooms are made with easy-to-clean interior:</p> <ul style="list-style-type: none"> · Toilets are wall-mounted as standard with a concealed cistern. · Water and drainage installations are always hidden in walls. · Any radiators are always placed at least 12 cm above the floor.
TEC1.6 Ease of recovery and recycling	ITEM 3 Reuse and recycling after end of life	Unknown	<p>Green Box bathrooms consist primarily of recyclable materials and are designed for separation. This means that the entire bathroom can be dismantled and reused, with the exception of the cast concrete floor. Explosion drawing of the construction of the bathrooms can be provided as well as instructions on how the different materials can be separated.</p> <p>As we use sheet membranes for wet room membrane as a unique feature, this further supports our focus on design for separation.</p>
TEC1.8 Documentation for Environmental Product Declarations (EPDs)	ITEM 1 Environmental Product Declarations	0,96%	Green Box has EPDs on all materials used in our bathrooms.

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 certified building project and steer your project safely to completion.

Green Box A/S

Vævervej 30
7490 Aulum
Denmark

Tel: +45 7311 5700
CVR: 36418281

info@greenbox.dk
www.greenbox.dk