CR 136

Certification rule for

type approval of prefabricated wet room modules

RISE Research Institutes of Sweden AB
Certification
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Foreword

A type approval is an independent third-party confirmation that a product meets the requirements of the Planning and Building Act (PBL) Chapter 8, Section 4, as well as the associated regulations. The certification is carried out in accordance with the regulation TYP, which governs the type approval system.

Type approval is conducted by RISE in the Certification department and is carried out under accreditation according to EN ISO/IEC 17065. The tests forming the basis for type approval must be performed by accredited and independent testing laboratories in accordance with EN ISO/IEC 17025. The ongoing manufacturing control is conducted in accordance with EN ISO/IEC 17020.

This certification rule is based on current regulations and standards but may be revised in the future, for example, to adapt to new regulations and standards or as a result of experiences gained from the application of the certification rule.

This edition of the certification rule supersedes previous editions.

This is a translation from the Swedish original document. In the event of any dispute as to its content, the Swedish original shall take precedence.

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RISE Research Institutes of Sweden AB
Certification

Martin Tillander
Director Product certification

Postal address:
Box 857
SE-501 15 Borås, Sweden

Telephone: +46 10 516 50 00
E-mail: info@ri.se
Internet: www.ri.se

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1 Introduction

This certification rule covers the certification process and the requirements for type approval of prefabricated wet room modules.

The purpose of this certification rule is to meet manufacturers' needs for verifying that their construction products comply with applicable requirements under the Planning and Building Act and associated regulations. When a construction product is type-approved, it means that its properties have been pre-assessed as specified in the type approval. The assessment is documented by referencing the requirements in the applicable regulations.

This certification rule refers to external references. For dated references, only the cited edition applies. For undated references, the latest edition of the reference (including any amendments) applies.

2 Scope

2.1 The scope of the type approval

Prefabricated wet room modules manufactured in a factory for transport and installation on the construction site, comprising floors, walls and ceilings, as well as waterproofing systems with connected plumbing products and other incorporated subsystems/components that have a functional link to the wet room system’s watertightness and to water and wastewater connections.

2.2 Intended use

Prefabricated wet room modules intended for use as wet rooms in dwellings, hotels, and other buildings with similar requirements.

3 The certification process

3.1 Application

Applications for type approval must be made in writing on the designated application form and accompanied by technical documentation containing a detailed description of the product, its design, manufacturing process and intended use. To facilitate the initial examination, installation and/or instructions for use and the results of any tests already carried out should be attached.

3.2 Initial review of the application

The initial review of the application verifies that this certification rule applies and that the content of the application is complete and acceptable. In case of ambiguity or if the content is incomplete, RISE will clarify these issues with the applicant before the certification process can continue. If it is not possible for RISE to undertake the assignment, the applicant will be notified together with a justification.

If RISE undertakes the assignment, the applicant receives an order confirmation that the application has been accepted. A certification agreement is thus established.

Should it be necessary to engage subcontractors for all or part of the evaluation, the applicant is informed. The applicant may object to the selected subcontractor.

3.3 Evaluation

The evaluation process checks whether the product meets the requirements specified in sections 4, 5 and 6.

In the evaluation process, investigations are carried out to determine whether assessment documentation exists in accordance with the established specification of requirements. The evaluation may include type testing, review of drawings and documents, or assessment of calculation data. In some cases, previous test results may be used for the evaluation, provided that the tests were conducted by an accredited and independent testing laboratory.

Furthermore, the manufacturer must verify that there is a factory production control that is considered to meet the requirements of this certification rule. This is verified by an accredited inspection body carrying out an initial audit, documenting the results in an audit report. In some cases, reports from previous product audits for similar or equivalent products/systems may be used in the evaluation.

A control plan, which describes the manufacturer's factory production control and audit of the factory production control, is established.

In cases where the product and/or the documentation shows deficiencies, i.e., does not meet the requirements, the evaluation can be cancelled.

The results of the evaluation are summarised and submitted for review and decision.

3.4 Review and decision

The evaluation is reviewed, and if approved, the process will proceed to a decision about certification. Once the decision is finalized, a type approval can be issued.

3.5 Type approval

The type approval is issued to the applicant, and its validity is based on the continuous fulfillment of the conditions.

3.6 Validity

The type approval is issued with a maximum period of validity of five years. The type approval can then be renewed, see below.

The validity requires that the manufacturer's factory production control is monitored in accordance with the control plan, see section 6.

Valid type approvals are presented on RISE's website.

3.7 Renewal

Applications for renewal shall be submitted in writing at least 6 months before the end of validity. Upon application, an assessment will be made of the steps required to renew the certificate/type approval. If no changes have been made to regulations, specifications, etc., the type approval can normally be renewed without further action.

A prerequisite is that the product remains unchanged in relation to the original type approval or the latest revision. The absence of changes shall be certified by the applicant.

The pre-renewal assessment also considers the audits (product audits) of the manufacturer's own control carried out during the period of validity.

3.8 Changes to type approved products

No changes to the type-approved product, including changes in production, may be made without this being assessed and approved by RISE. The manufacturer must therefore notify RISE of any changes planned for the type-approved product, including changes in production process. The notification shall be accompanied by a description of the changes and an additional technical file.

RISE will determine the necessary steps for ensuring that the type approval can continue to be valid after the changes have been made. The assessment may necessitate additional tests. If the result of the amendment means that the type approval can still be valid, the type approval is revised with the new information. The type approval shall retain its original period of validity.

4 Requirements

Products type-approved according to this certification rule have pre-assessed properties that enable buildings and construction works to meet the requirements of planning and building act, chapter 8, 4 § PBL, regarding essential technical characteristics:

1. Load-bearing capacity, stability and durability
3. Protection with regard to hygiene, health and the environment

Building regulations applicable from 2025-07-01

The requirements in section 4 of this certification rule take into account the following sections of the Swedish National Board of Housing, Building and Planning's regulations:

The National Board of Housing, Building and Planning's regulations and general advice on the load-bearing capacity, stability and durability of buildings, etc. BFS 2024:6	Project design and execution	Ch. 2, Sec. 9–10
	Durability	Ch. 2, Sec. 13
The National Board of Housing, Building and Planning's regulations with regard to hygiene, health and the environment, water management and waste management. BFS 2024:8	Materials	Ch. 2, Sec. 1
	Moisture proofness	Ch. 7, Sec. 1–2, 7–8, 10–11
	Water and sewage installations	Ch. 8, Sec. 1–7, 12–14

4.1 Type testing

The evaluation of the product characteristics is carried out by means of a type test of one or more samples representative of the production process. The test is carried out by accredited and independent testing bodies according to EN ISO/IEC 17025.

The testing and evaluation are carried out as described below.

4.1.1 Waterproofing System

Waterproofing systems must be declared and CE-marked according to the European Parliament and Council Regulation (EU) No 305/2011 of March 9, 2011 (CPR) based on one of the European Assessment Documents:

EAD 030352-00-0503 Liquid applied watertight covering kits for wet room floors and/or walls.

EAD 030436-00-0503 Watertight covering kits based on flexible sheets for wet room floors and walls.

EAD 030437-00-0503 Watertight covering kits based on inherently watertight boards for wet room floors and walls.

Documentation for the waterproofing system must include:

- European Technical Assessment (ETA)
- Certificate of conformity of the factory production control
- Declaration of Performance (DoP)

Waterproofing systems without a CE mark must undergo type testing by an accredited laboratory. Documentation from the type testing must demonstrate compliance with all requirements in one of the European Assessment Documents.

4.1.2 Adhesive for Ceramic Tiles not Part of a Waterproofing System

Adhesive for ceramic tiles not included in a waterproofing system must have verified properties according to EN 14891:2017 for application on the relevant substrate:

- Initial adhesion
- Adhesion after water immersion
- Alkali resistance
- Heat aging

4.1.3 Functional Testing

The prefabricated wet room module must have documentation demonstrating its waterproofing when tested according to a combination of the methods described in annex A and annex E of EAD 030352-00-0503.

Floor areas frequently exposed to water must be equipped with floor drains. The floor and its waterproof layer must slope toward the drain in areas frequently exposed to water.

Backfall is not permitted in any part of the space.

Tap water installations inside the wet room module must be inspected and installed to prevent any leaking or condensation water from coming into contact with moisture-sensitive materials, also see requirement 4.1.4.

The conduit for leakage indication from cabinets and leakage boxes should be laid with a slope along its entire length. Service openings and outlets for leakage indication must not be placed in the location of a bath or shower. A service opening in the ceiling should have be draining through the hatch.

Water installations must be securely fastened. Water pipes must be clamped.

Wastewater pipes are laid with a slope along their entire length. The wastewater installation must not cause backflow.

In the wet room module, surface layers, joints, connections, and penetrations must be arranged to be easily cleaned and prevent microbial growth.

Fastenings for items such as wash basins, wall-hung toilets, and any disability aids must have verified strength and durability verified by the relevant standard or testing method (e.g., EN 997:2018 chapter 5.4 for wall-hung toilets). All fastenings must also be waterproof. Strength, durability, and waterproofing are preferably examined simultaneously during functional testing.

4.1.4 Installation Products

Installation products included in the wet room module's hot water, wastewater, and heating installation, as well as other components intended for use with these products, must have valid Swedish type approval or be CE-marked. See requirements for the manufacturer's factory production control under point 5. Installation products to be installed in the wet room module that are connecting to the wet room module's waterproofing system must be included in functional testing according to 4.1.3 and may not be replaced by another type-approved product without approval from RISE.

4.1.5 Material Requirements

Material requirements must always be applied to the extent applicable to the specific product. Material requirements should be described in the company's documentation regarding factory production control, see requirements for the manufacturer's factory production control under point 5. Walls, floors, or ceilings made of metallic materials must either be naturally resistant or made resistant through protective measures. Hot-dip galvanized steel sheet with coating Z275 according to EN10346:2015 or equivalent is considered to fulfill the requirements for type approval under corrosion conditions equivalent to atmospheric corrosion. Walls, floors, or ceilings made of metallic materials that simultaneously act as a waterproofing layer require an extended analysis to investigate resistance based on additional factors that may affect durability. Acid-resistant stainless steel or equivalent is considered to fulfill the requirements for resistance when the material simultaneously acts as a waterproofing layer. Properties of metallic materials and coatings should be verified with a certificate type 3.1 according to EN 10204:2005. Walls, floors, or ceilings made of plastic materials must have verified aging resistance corresponding to the lifespan specified by the manufacturer.

4.1.6 Robustness and Stability

The prefabricated wet room module must have verified robustness and stability. The load-bearing structures, including connections between parts, must be dimensioned through calculation. Documentation of numerical analysis for the verification of robustness and stability requirements must include at least:

Objectives and purpose of the analysis: what has been calculated and how it relates to the requirements to be fulfilled in the certification process. Quantitative formulations of strength and stability requirements should be based on appropriate design rules (e.g., Eurocode).

Specification of the selected mathematical model and calculation technique to solve it, such as hand calculations, Finite Element Analysis.

Description of selected load cases and how they represent relevant situations in the product's life cycle, such as use, installation, transport, etc.

Description of boundary conditions, initial conditions, material properties, and all parameters, including any safety factors.

Description of software used in numerical analysis.

Description of results and the reliability of their basis, developed, for example, through validation against experimental data, derivation from appropriate design rules (e.g., Eurocode), or alternative calculations.

Description of simplifications and assumptions made to develop the calculation model and results of the analysis. More detailed guidance on the structure and content of calculation reports will be provided during the certification process

4.2 Technical documentation

Products covered by this certification rule must have an unambiguous definition. The following documentation must be provided for type approval:

- Product name,
- Product description,
- Description of intended use,
- Drawings and material specifications,
- List of all constituent materials and components,
- Detailed instructions for assembly/installation/design,
- Copies of test reports, calculation reports, or other evidence demonstrating compliance with the requirements set out in clause 4.1,
- Copies of type approval certificates or performance declarations for the installation products used.

All documents, including drawings, product descriptions and installation instructions, etc., should be clearly marked with name or number and the date or version number.

4.3 Associated documents

The associated documents must be in Swedish and contain such information as to enable correct installation/assembly of the product. Associated documents can be, for example, documents for design, assembly/installation, inspection and operating and maintenance instructions. The associated documents are published together with the type approval.

5 Factory production control by the manufacturer and/or importer/distributor

The manufacturer and/or importer/ distributor must have factory production control that ensures that products bearing the certification label comply with the requirements of this certification rule.

The manufacturer and/or importer/distributor shall have an organisation responsible for and carrying out this verification. Staff must be familiar with the tasks and have access to adequate instructions.

Factory production control must be described in a control plan.

The factory production control shall include acceptance control, production control and final inspection.

The control plan shall specify the controls and sampling, the current test methods and the measures taken in the event of a failed result.

The manufacturer, in their control, must ensure that installation products are labeled with Swedish type approval or CE marked as per 4.1.4. Additionally, the manufacturer must verify that type approvals are valid or have documentation indicating the version of the declaration for CE-marked installation products.

The manufacturer should conduct inspections of completed modules to the extent deemed necessary to ensure compliance with specified requirements. The manufacturer must review modules before delivery concerning dimensions, execution, and quality. Furthermore, a random final inspection should be conducted, where relevant functions and characteristics are to be verified. The scope of the factory production must be adapted to the volume of production, deliveries, etc.

Test and inspection equipment must be regularly maintained and calibrated.

Any deviations detected during factory production control must be investigated and corrective measures must be taken to prevent recurrence. Products that do not comply with the requirements of the certification rule may not be labelled according to it.

Complaints about type approved products, labelling, marketing, etc. from customers or other stakeholders must be documented and made available to the inspection body.

All documentation of the manufacturer's own control, including journals, etc., must be available to the inspection body and kept by the manufacturer for at least five years.

6 Supervisory inspections

Supervisory inspections shall be carried out by inspection bodies accredited according to EN ISO/IEC 17020, type A.

Supervisory inspections, referred to by RISE as product audits, are carried out at least once per calendar year through visits to the manufacturer and/or importer/distributor, at times determined by the inspection body.

During the visit, the inspection body carries out checks to ensure that the factory production control works in accordance with the control plan. The control includes

examination of inventory, manufacturing, journals, test equipment and more. If necessary, samples are taken or purchased for audit testing.

The inspection body also carries out controls to ensure that the manufacturer has not made any changes to the product, that the product is marked according to the type approval and that the type approval is still valid.

If the audit testing and/or the result of the supervision of the factory control fails, the reasons shall be investigated by the manufacturer and reported to the inspection body. If, after investigation and analysis by the inspection body, it cannot be ensured that products or factory production control meet the set requirements, the inspection body must report this to RISE Certification.

The supervisory control shall be described in a control plan.

6.1 Sampling and audit testing

The inspection body selects products at random from the manufacturer, warehouse, and workplace or purchases them from retail outlets. Audit testing is carried out by the inspection body or under the responsibility of the inspection body.

Functional testing of a complete wet room module with regard to watertightness, according to 4.1.3, should be carried out when renewing the type approval or in the case of significant changes in the wet room module's construction and when changing the waterproofing system, but at least every five years.

Sampling and audit testing shall be described in a control plan.

7 Labelling requirements and manufacturer´s declaration

The holder of the type approval has the right to label the products covered by the type approval.

Labelling shall contain the following information:

- Holder *(Name or registered trademark of the company responsible for the product)*
- Place of manufacture, factory name or equivalent
- Traceability *(the serial number, date or other marking to be included in the manufacturer's inspection record)*
- The type approval number
- ⊤ *(The registered trademark of the National Board of Housing, Building and Planning no 241 217, BFS 2013:6 TYP 7 15§)*
- 1002 *(RISE identification number as certification body)*
- Inspection body *(name or registered trademark)*

The location of the labelling (product, packaging, delivery note, installation instructions, etc.) shall be indicated in the respective type approval and the primary purpose of the labelling is to identify the product on the building- or construction site.

The product shall be accompanied by a manufacturer's declaration certifying that production has taken place in accordance with the documents on which the type approval was granted.

8 General terms and conditions

Provided in the RISE document *General certification rules for certification of products CR000*.

9 References

The following reference documents are necessary when using this document. For dated references, only the cited edition applies. For undated references, the most recent edition of the reference document (including any additions) applies.

EN ISO/IEC 17065	Conformity assessment - Requirements for bodies certifying products, processes and services
EN ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories
EN ISO/IEC 17020	Conformity assessment – Requirements for the operation of various types of bodies performing inspection
EAD 030352-00-0503	Liquid applied watertight covering kits for wet room floors and/or walls
EAD 030436-00-0503	Watertight covering kits based on flexible sheets for wet room floors and or walls
EAD 030437-00-0503	Watertight covering kits based on inherently water-tight boards for wet room floors and or walls
EN 14891:2017	Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives – Requirements, test methods, assessment and verification of constancy of performance, classification and marking
EN 10346:2015,	Continuously hot-dip coated steel flat products for cold forming – Technical delivery conditions
EN 10204:2005	Metallic products – Types of inspection documents
EN 997:2018	WC pans and toilets with integral water trap
CPR	Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products.
Eurocode	SS-EN 1990–SS-EN 1999, Eurocodes: Basis of structural design and design of structures (Eurocode 0–9).
PBL	Planning and Building Act (2010:900)
TYP	BFS 2013:6 TYP 7 - The Swedish National Board of Housing, Building and Planning's Regulations on Amendments to the Regulations and General Guidelines (2011:19) on Type Approval and production Control
BFS 2024:6	The National Board of Housing, Building and Planning's regulations and general advice on the load-bearing capacity, stability and durability of buildings, etc.

BFS 2024:8	The National Board of Housing, Building and Planning's regulations with regard to hygiene, health and the environment, water management and waste management
TKR 000	RISE General rules for production control
CR 000	General certification rules for certification of products

10History

2024-01-15 Certification rule established.

2025-12-26 Certification rule revised due to new building regulations.