CR 134

Certification rule for

type approval of sealing between waterproofing systems and installation products in wet areas

RISE Research Institutes of Sweden AB
Certification

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Foreword

A type approval is an independent third-party confirmation that a product or system 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 will take precedence.

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Certification

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1 Introduction

This certification rule covers the certification process and the requirements for type approval of sealing between waterproofing systems and installation products in wet areas.

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

This certification rule covers type approval of sealing between waterproofing systems and installation products in wet areas. The purpose is to ensure a functional seal between the installation and the waterproofing membrane in the floor and/or wall.

The certification rule can be applied to:

- A specified installation product in combination with one or more waterproofing membrane systems.
- A specified waterproofing membrane system in combination with one or more defined installation products.

Installation products include, for example, floor drains for wall-adjacent placement, distribution cabinets, wet room cassettes, built-in boxes for mixers, and pipe penetrations. Installation products must be intended and suitable for connection to a waterproofing membrane system designed for use in wet rooms.

2.2 Intended use

System for ensuring watertightness at the interface between a waterproofing system and an installation product in a wet area.

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 system

No changes to the type-approved system, 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 system, 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

Systems type-approved under this certification rule have pre-assessed properties that enable buildings and structures to meet the requirements of Chapter 8, Section 4 of the Swedish Planning and Building Act (PBL), regarding technical performance requirements:

3. Protection with regard to hygiene, health, and the environment

Construction and design regulations according to BBR and EKS

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 Building Regulations (BBR):

BBR (2011:6) – regulations and general advice, including amendments up to BFS 2024:5	Waterproof layers	BBR 6:5331
	Interior floors and walls exposed to water	BBR 6:9531

Building regulations applicable from 1 July 2025

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:

Regulations on protection with regard to hygiene, health and the environment, and the conservation of water and waste (BFS 2024:8)	Moisture profness	Chapter 7. 7–8 §§ Chapter 7. 10 §

Both waterproofing membrane systems and installation products must have pre-assessed properties through type approval or CE marking. Type testing must be carried out on the combined system, i.e., the connection between the installation product and the waterproofing membrane system.

4.1 Waterproofing system

Waterproofing systems (based on sheet, liquid, or board materials) must be performance-declared and CE-marked in accordance with Regulation (EU) No 305/2011 (CPR), based on EAD 030352-00-0503, EAD 030436-00-0503, or EAD 030437-00-0503. The following documentation must be available for the waterproofing system: European Technical Assessment (ETA), certificate of conformity for factory production control, and a Declaration of Performance (DoP).

For waterproofing systems or individual components/products that are not part of a CE-marked system, compliance with the requirements of the relevant EAD must be demonstrated. This can be done through type testing carried out by an accredited and independent laboratory.

4.2 Installation product

Installation products must have a valid Swedish type approval or be performance-declared and CE-marked in accordance with Regulation (EU) No 305/2011 (CPR), based on a harmonised standard (hEN) or a European Technical Assessment (ETA). For CE-

marked products, the documentation must include a Declaration of Performance (DoP) and, where applicable, a certificate of conformity for factory production control.

Installation products are grouped to make assessment and testing more efficient and to ensure that different products with the same function are assessed in a consistent manner. The products can be divided into the following product groups:

1. Products with equivalent flange and bonding material (adhesive flange)
2. Products with equivalent mechanical fastening of the waterproofing layer (clamping joint)
3. Products with a factory-fitted collar, or a separate elastic collar that is pulled over its mating part, made of the same material and supplied by the same manufacturer.

4.3 Type testing

The system's properties are evaluated through a combination of drawing review, document review, and type testing. The drawing and document review form the basis for how installation products are grouped, so that products with similar design and function can be assessed within the same product group. For each product group, a representative product is selected and verified through type testing. The testing is carried out by accredited and independent testing bodies in accordance with EN ISO/IEC 17025.

Type testing is performed according table 1 and the following:

- Depending on whether the product is intended for floor or wall mounting, type testing of a representative product per product group shall be carried out according to section 4.3.1 or 4.3.2. Testing according to 4.3.1 may also be accepted as a basis for the assessment of wall-mounted products, but the reverse does not apply.
- Type testing according to 4.3.3 is performed when using a butyl collar or rolled waterproofing membrane with fiber tape/sealing band.
- Type testing according to 4.3.4 is performed for products in Product Group 3 in combination with foil-based waterproofing systems.
- Type testing according to 4.3.5 is performed for products in Product Group 1 in combination with foil-based waterproofing systems.

Table 1 – Type testing

	Test Method	**Requirement**
4.3.1	EAD-030352-00-0503 Annex A* For floor installation.	The combination of waterproofing system and installation product shall be watertight.

4.3.2	EAD-030352-00-0503 Annex E or F* For wall installation. The size of the test specimen determines which method can be used.	The combination of waterproofing system and installation product shall be watertight.
4.3.3	EAD-030352-00-0503 Annex B*	The combination of waterproofing system with butyl collar and installation product shall remain sealed after shear and tensile loading with 2 mm deformation.
4.3.4	EN 13859-1:2014, Annex F*	The combination of foil-based waterproofing and pre-mounted foil flange shall be watertight after 48 hours of exposure to a 600 mm water column.
4.3.5	EN 12317–2:2010*	The shear strength in a 30 mm overlap joint shall be greater than or equal to 330 N/50 mm width. Tested against the same material as used in the installation product.

* See section 4.5 for modification and adaptation of the method.

4.4 Extension

If a system consisting of a foil-based waterproofing membrane system and an installation product has been verified as watertight through complete testing in accordance with EAD-030352-00-0503 Annex A, E or F, the type approval may be extended to include additional combinations as described below.

An extension may be applied when the new combinations belong to the same product group in accordance with Section 4.2 and are based on the same watertightness principle, type of waterproofing foil, and adhesive type as the previously tested reference combination.

If the new products differ only in dimension, geometry, or minor design details that do not affect the watertightness function, the extension may be approved following document review and technical assessment without additional testing.

For product group 1, i.e. products with an equivalent flange and bonding material (bonding flange), if the waterproofing membrane is changed or if a new adhesive of the same adhesive type is used, but the material type and the watertightness principle are otherwise unchanged, the bond strength shall be verified by shear testing in accordance with 4.3.5.

For product group 3, i.e. products with a factory-fitted collar or a separate elastic collar that is pulled over, made of the same material and within the same system/manufacturer, an extension may also be based on verification by testing in accordance with 4.3.4, provided that the watertightness principle and the material type in the collar/membrane are unchanged compared with the previously tested reference combination.

4.5 Modification of Test Methods

The test methods have been modified in the following respects to better reflect the intended use of the system and to ensure that the results are relevant to the property being determined.

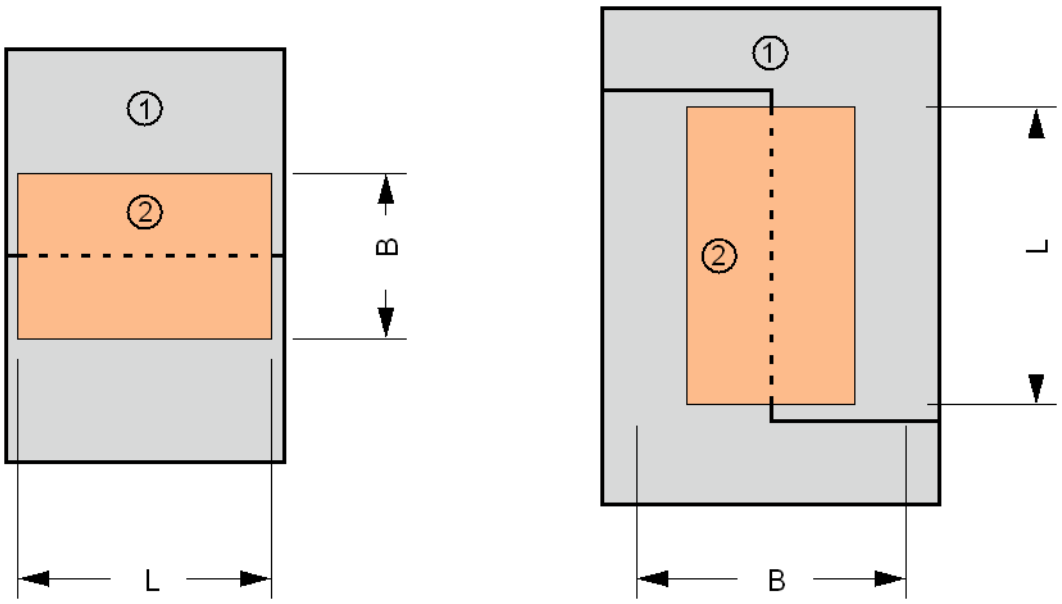
Modification of EAD-030352-00-0503 Annex A
The installation product shall be mounted during testing according to the installation instructions of both the product and the waterproofing system.

The drying time of the waterproofing system before testing shall follow the manufacturer's instructions, but not exceed 7 days.

Modification of EAD-030352-00-0503 Annex E or F
The size of the test specimen determines which of the test methods can be used. The dynamic load described in the test method shall only be applied to installation products that can be mechanically loaded. For other products, the dynamic load does not need to be performed. The test shall consist of 2 × 1,500 spray cycles.

Modification of EAD-030352-00-0503 Annex B
The combination of waterproofing system with butyl collar or rolled waterproofing with fiber tape/sealing band and installation product shall remain sealed after shear and tensile loading with 2 mm deformation according to EAD-030352-00-0503 Annex B.

Test specimens are manufactured according to the sketches below:

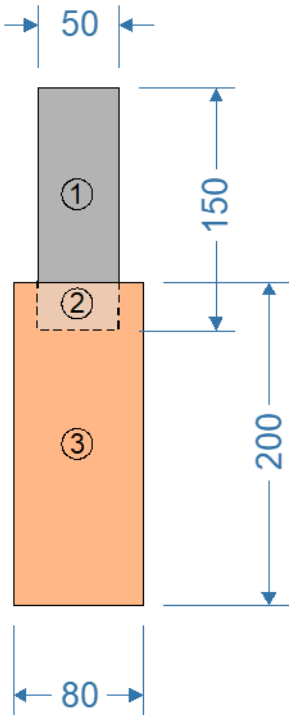


① Particle board
② Waterproofing material (butyl collar or rolled waterproofing with fiber tape/sealing band)
B 100 mm or the width of the specimen (whichever is smaller)
L 150 mm for tensile load, 180 mm for shear load

Modification of EN 13859-1:2014, Annex F
A pressure of 6000 Pa (600 mm water column) is used during testing. The test begins 7 days after the joint is made.

Between preparation and testing, the specimens are stored in a conditioned space with standard climate (23 ±2 °C / 50 ±5% RH).
At least two specimens shall be manufactured and tested.
To better detect leakage, the water may be colored with a dye that does not affect water permeability (e.g., 0.05% eosin).

Modification of EN 12317–2:2010
At least five specimens shall be manufactured and tested according to EN 12317–2:2010.
The tests are performed in accordance with the following modifications:
Specimens are made from the same material as the installation product and with waterproofing foil and foil adhesive included in the waterproofing construction.



① Material from the installation product
② Bonded/overlapped area (50 × 30 mm)
③ Waterproofing foil

Cleaning and bonding of the waterproofing to the installation product shall be done according to the waterproofing manufacturer's instructions. The cleaning method, applied products, and quantities shall be documented.

After preparation, the specimens are stored in a conditioned space (23 ±2 °C / 50 ±5% RH) for seven days before tensile testing.
Specimens are clamped in the tensile testing equipment using 50 mm wide clamps.
To avoid edge effects during tensile testing, the waterproofing foil is made 80 mm wide. The excess edges are folded back during testing.
Maximum force and failure type are recorded during the test.

4.6 Technical Documentation

Systems covered by this certification rule must have a clearly defined specification. The following documentation is required for type approval:

- System description
- A description of the intended use
- Drawings and material specifications
- A list of all included materials and components
- Detailed installation instructions

All documents, including drawings, product descriptions, and installation instructions, must be clearly marked with a name or reference number, as well as a date or version number.

4.7 Associated Documents

Associated documents shall be in Swedish and contain sufficient information to ensure that the system can be installed correctly. These documents are published together with the Type Approval.

The installation procedure shall correspond to the installation description in the test report from type testing according to section 4.3.1 or alternatively 4.3.2.

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 in the system comply with the requirements of this certification rule. Products that are CE-marked or type-approved are assumed to be controlled within the framework of CE marking or type approval.

For products and components that lack CE marking or type approval, a factory production control must be carried out as described below.

The manufacturer and/or importer/distributor shall have an organisation responsible for and carrying out this control. 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 and/or importer/distributor shall carry out inspections and tests to an appropriate extent.

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.

Surveillance inspection, referred to by RISE as a product audit, shall be carried out at least once per calendar year. If all products and components included in the type-approved system are covered by a type approval or CE marking, the inspection body may adjust the scope to an annual document review and administrative assessment, during which the following is verified:

- The type approval remains valid with unchanged design and installation instructions.

- The ETA edition is unchanged, with a published certificate of conformity for factory production control and an unchanged Declaration of Performance (DoP).
- Verification that included components/products are active on the manufacturers' websites and that installation instructions are marked in accordance with the type approval.

For products and components that are part of the system but are not included in a CE-marking or covered by a type approval, audits shall be carried out at the manufacturing site to verify that the described factory production control operates in accordance with the control plan, at intervals determined by the inspection body. The audit includes, among other things, review of stock, production, records, testing equipment, and similar aspects.

If necessary, samples may be taken or purchased for audit testing.

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 analyze by the inspection body, it cannot be ensured that the system 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. The annual testing shall include at least spot checks, adapted to the installation methods in use. The spot checks shall be distributed so that all waterproofing combinations are covered by audit testing during the validity period of the type approval.

Audit testing shall be performed as follows:

- Waterproofing connection in foil-based system with adhesive flange: testing according to EN 12317-2:2010 (modified), in accordance with section 4.5.
- Waterproofing connection to a factory-fitted collar or a separate elastic collar: testing according to EN 13859-1:2014, Annex F (modified), in accordance with section 4.5.
- Waterproofing connection with butyl collar: testing according to EAD 030352-00-0503, Annex B (modified), in accordance with section 4.5.

For waterproofing systems that are mechanically fixed, annual sampling is not required.

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 installation instruction covered by the type approval.

Labelling shall contain the following information:

- Holder *(Name or registered trademark of the company responsible for the product)*
- 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
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.
BBR	The Swedish National Board of Housing, Building and Planning's Building Regulations (2011:6) – Regulations and General Guidelines with amendments up to BFS 2024:5.
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.
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 watertight boards for wet room floors and/or walls
EAD 030352-00-0503	Liquid applied watertight covering kits for wet room floors and/or walls
EN 13859-1:2014	Flexible sheets for waterproofing – Definitions and characteristics of underlays – Part 1: Underlays for discontinuous roofing
EN 12317-2:2010	Flexible sheets for waterproofing – Determination of shear resistance of joints – Part 2: Plastic and rubber sheets for roof waterproofing
CR000	General certification rules for certification of products

10History

2021-06-06	Certification rule established.
2025-11-09	Certification rule revised with regard to new building regulations and changed scope.
2026-03-04	The certification rule has been revised with regard to the extension with product group 3 in section 4.4, collars that are pulled over their mating part.