



# CR 137

## Certification rule for type approval of Solid Wood Tongue-and- Groove Panels

## 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.

Borås December 2025

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# 1 Introduction

This certification rule covers the certification process and the requirements for type approval of solid wood tongue-and-groove panels.

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 tongue-and-groove panel made of untreated wood, in the species spruce (*Picea abies*) and pine (*Pinus sylvestris*), intended to be a permanent part of a building.

### 2.2 Intended use

Load-bearing substrate for waterproofing membranes on roof structures in climate classes 1 and 2.

and/or

mounting substrate providing a solid surface for walls in wet rooms to enable fastening of installation products and other accessories.

## **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. website.

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
4. Safety in use

### Building and Construction 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) and the regulations and general guidelines on the implementation of European structural standards (EKS):

The Swedish National Board of Housing, Building and Planning's Regulations and General Guidelines (2011:10) on the Application of European Structural Standards (Eurocodes) with amendments up to BFS 2022:4.	Durability	EKS Sec. A, Art. 16
	Materials	EKS Sec. A, Art. 17
	General, Durability	EKS Sec. G, Art. 1-4
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.	Moisture, General	BBR 6:51
	Moisture, Maximum moisture levels	BBR 6:52
	Moisture safety	BBR 6:53
	Roof safety, General	BBR 8:241 last paragraph

### Building regulations coming into force on 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 Swedish 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.	Construction products and materials	Ch. 1, Sec. 7
	Durability	Ch. 2, Sec. 13
The Swedish 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

The Swedish National Board of Housing, Building and Planning's regulations on safety during use of buildings BFS 2024:9.	Protection against stepping through	Ch. 2, Sec. 23
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For the intended use "mounting substrate providing a solid surface for walls in wet rooms to enable fastening of installation products and other accessories" requirements for protection against stepping through do not apply.

## 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 according to the tables below, based on the respective intended use.

Testing and requirements for the intended use "load-bearing substrate for waterproofing membranes on roof structures in climate classes 1 and 2":

Characteristic	Method	Requirement
Moisture	SS-EN 13183-1	Target moisture content 16% in accordance with SS-EN 14298
Protection against stepping through	SP Method 0487	Average value of at least 3 load points, corresponding to the weakest position: minimum 2,20 kN. Lowest value at any single load point: minimum 2,00 kN

Testing and requirements for the intended use "mounting substrate providing a solid surface for walls in wet rooms to enable fastening of installation products and other accessories":

Characteristic	Method	Requirement
Moisture	SS-EN 13183-1	Target moisture content 16% in accordance with SS-EN 14298
Strength	Method 5737 (RISE method)	No visible damage to the wall or waterproofing layer during or after testing.
Moisture	Method 5737 (RISE method)	No leakage shall be observed during or after completion of the test

## 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 or other identification.



- Product description including wood species<sup>1</sup>, dimensions<sup>2</sup>, joining of boards with staples, profiles, and method for splicing<sup>3</sup> and the relative positioning of joints<sup>3, 4, 5</sup>.
  - Description of intended use.
  - Drawings and material specifications.
  - List of all constituent materials and components.
  - Detailed instructions for installation/design.
  - For finger-jointed boards, provide information on the adhesive designation and manufacturer, finger profile, and jointing method (including whether fingers are visible on the edge or face, and whether joints are placed separately or mixed).
  - For mechanical joints such as nailing, biscuit jointing, or similar, provide information describing the type of fastener, its dimensions, and material quality.
1. The requirement for timber quality shall be at least grade G4-3 in accordance with SS-EN 1611-1, or at least grade G4-2 if the underside of the tongue-and-groove panel is visible externally.
  2. The requirement for board dimensions is a minimum thickness of 17 mm and a minimum width of 70 mm.
  3. The requirement for jointing of boards is that this shall be carried out by finger-jointing or end-matching with mechanical fastening.
  4. Finger-jointing may be performed with random joint distribution. The adhesive used shall be approved in accordance with EN 301.
  5. End-matching may be performed with joints occurring freely within a panel, but in adjacent tongue-and-groove panels the joints shall be staggered by at least 1200 mm, and no joint shall be located closer than 600 mm to the end of a panel. Joints shall not occur at eaves overhangs, outer rafter bays, or at gable peaks.

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 of the product. Associated documents can be, for example, documents for design and installation instructions. The associated documents are published together with the type approval.

The following information must be included in the associated documents:

- Dimensions, thickness, and width of the tongue-and-groove panel.
- Target moisture content of 16% for the tongue-and-groove panel.
- Instructions on how the panel shall be handled on the construction site with regard to protection and storage prior to installation.

- Conditions for installation with respect to protection against, for example, rain and moisture.
- Guidance on which side of the panel shall face upward, installation at eaves overhangs, jointing of panels, nailing, and information that the panel must be installed over at least two rafter bays (not applicable for the intended use “mounting substrate providing a solid surface for walls in wet rooms to enable fastening of installation products and other accessories”).
- Guidance on how the panel shall be fastened to wall studs (not applicable for the intended use “load-bearing substrate for waterproofing membranes on roof structures in climate classes 1 and 2”).
- Painting, with instructions that painting of outdoor surfaces should be carried out as soon as possible (not applicable for the intended use “mounting substrate providing a solid surface for walls in wet rooms to enable fastening of installation products and other accessories”).
- For mechanical jointing, provide information stating that joints shall not occur at eaves overhangs, outer rafter bays, or at gable peaks (not applicable for the intended use “mounting substrate providing a solid surface for walls in wet rooms to enable fastening of installation products and other accessories”).
- Maximum centre-to-centre distance between rafters (not applicable for the intended use “mounting substrate providing a solid surface for walls in wet rooms to enable fastening of installation products and other accessories”).
- Instructions regarding the installation of HVAC products and equipment in wet rooms (not applicable for the intended use “load-bearing substrate for waterproofing membranes on roof structures in climate classes 1 and 2”).
- Dimension and maximum centre-to-centre distance between wall studs (not applicable for the intended use “load-bearing substrate for waterproofing membranes on roof structures in climate classes 1 and 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 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 and/or importer/distributor shall carry out the following examinations and tests:

- Material (quality, dimensions, moisture) according to manufacturing drawings.
- Functional testing of the product.
- Execution and dimensional verification against drawings.
- Joining and jointing.

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.

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 analyze 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.

## 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 CROO*.

## 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
SS-EN 1611-1	Sawn timber – Appearance grading of softwoods – Part 1: European spruces, firs, pines and Douglas firs
SS-EN 1995-1-1	Eurocode 5 – Design of timber structures – Part 1-1: General rules and rules for buildings
SS-EN 301	Adhesives, phenolic and aminoplastic, for load-bearing timber structures – Classification and performance requirements
SS-EN 13183-1	Moisture content of a piece of sawn timber – Part 1: Determination by oven dry method
SS-EN 14298	Sawn timber – Assessment of drying quality
SP Method 0487	Protection against stepping through - Load-bearing capacity
Method 5737 (RISE method)	Testing of watertightness of penetrations and fastenings in wet room walls
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.
EKS	The Swedish National Board of Housing, Building and Planning's Regulations and General Guidelines (2011:10) on the Application of European Structural Standards (Eurocodes) with amendments up to BFS 2022:4.
BFS 2024:6	The Swedish 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 Swedish National Board of Housing, Building and Planning's regulations with regard to hygiene, health and the environment, water management and waste management.
BFS 2024:9	The National Board of Housing, Building and Planning's regulations on safety during use of buildings.
CR 000	General certification rules for certification of products

## 10 History

- 2023-09-26 Certification rule established.
- 2024-06-15 Certification rule revised, extension of the certification rule to include tongue-and-groove panels for the intended use "mounting substrate providing a solid surface for walls in wet rooms to enable fastening of installation products and other accessories".
- 2025-12-26 Certification rule revised in accordance with updated building regulations.