



**BOEN**

**Installation Instruction  
Chalet, T&G  
Glued installation**

## General information

BOEN produces its Chalet floorboards in accordance with European standard EN 13489 and EN13442 for indoor use. The BOEN Chalet floorboards are individually manufactured for each customers order.

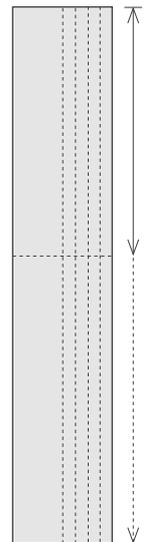
Anhand einer Grundrisszeichnung wird ein Vorschlag für die optimale Zusammenstellung der unterschiedlichen Dielenlängen- und breiten erstellt. Die Fertigung der Dielen erfolgt erst nach Auftragserteilung. Die Dielen sind paarweise verpackt und erhalten unterseitig einen Stempel mit dem jeweiligen Format.



## Structure / Plank formats

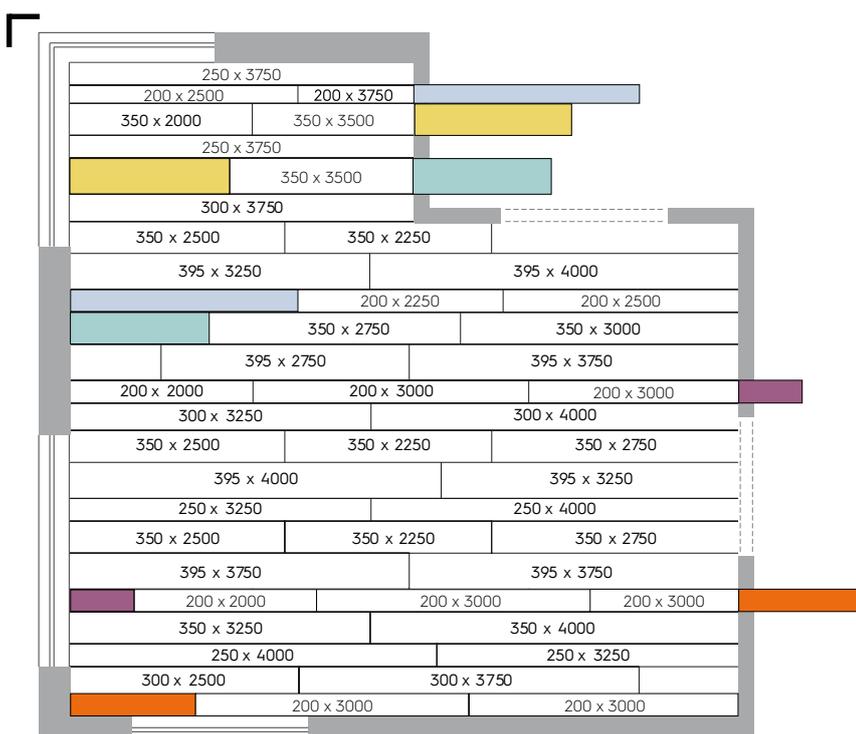
Length:	2000 - 4000 mm
Width:	200/ 250/ 300/ 350/ 395 mm
Thickness:	20 mm
Toplayer thickness:	ca. 4,5 mm Oak
Middlelayer:	10,5 mm Spruce
Underlayer:	5 mm Spruce

The planks are manufactured with a tongue and groove profile on the long side. The grooves profiled on the face side, must be connected by the loose tongues included in the delivery. The tongues should be glued during installation.



## Room plan example

By example the off-cuts of the coloured boards are used as starting elements of the next row. The black angle drawn demonstrates the starting point of the installation.



## Storage recommendation

Packages are wrapped in PE film and packed in cardboard boxes which must be handled carefully to avoid damage. It is essential to protect the packages from moisture during storage, transport and before installation. Packages should remain closed and stored 48 hours in the room of installation to allow for acclimatisation. Recommended storage temperature +18°C, 35 - 60% RH. Only open the packages immediately before installation..

## Important installation instructions

Boen chalet floorboards have been individually checked and sorted by our quality controllers. However, if there are any complaints regarding the sorting and/or visual defects, it is important to inform us before the installation starts. Complaints cannot be accepted once installation has started. Please note that the result of the installed floor is the responsibility of the installer. The installation should be in accordance with the recognized technical rules and in compliance with the DIN standards - especially DIN 18365 "Floor Covering Work" and DIN 18356 "Parquet Work".

For the installation of Boen chalet floorboards it is necessary that the rooms are dry and heated. All exterior windows and doors must be installed and all masonry and screed work must be fully dry before installation. We recommend that work that negatively affects the dry room climate (e.g. painting, tiling) be completed before laying the parquet.

Excessive room humidity can lead to excessive moisture absorption and thus to swelling and dimensional changes in the parquet strips. Therefore, it must be ensured that the relative humidity is below 65% during installation. The room air temperature should be approx. 18°C. The floor temperature should be approx. 18 - 22°C with underfloor heating. During the winter months, it should be taken into account that e.g. due to longer transports a cooling of the packages can occur. The material temperature should then be adjusted to the room temperature before laying in the unopened package. room temperature before laying the material in the unopened package. In general - but especially in new buildings - it is always advisable to install the parquet as the last work on site. as the last work step on the construction site. If this is not possible, the finished surface must be covered with paper and/or wool felt paper. or wool felt cardboard. Under no circumstances should a diffusion-blocking film be used for protection.

## Installation

Boen chalet planks are only suitable for full-surface gluing or screwing/nailing to suitable substructures. Floating installation is not recommended. When the order is placed, an exact installation plan is drawn up, which must be followed during installation. All planks are stamped with their respective format on the underside. format. This is to ensure that the desired installation pattern is achieved and that the material received is correct in terms of quantity and proportions. The delivered packages are to be checked or matched with the enclosed parts list before installation. Edge joints must be calculated to all adjoining building elements.

We recommend a minimum 10 mm wide expansion joint, also to avoid possible sound bridges. For larger rooms and screwing/nailing, a minimum of 1.5 mm per metre of width must be calculated.

## Installation on screed

Boen chalet floorboards can be laid on any screed substrate that has been professionally produced and prepared in accordance with DIN/EN standards. This includes cement, anhydrite, mastic asphalt and dry screeds (mineral boards) as well as chipboard or plywood. The subfloor must be professionally tested before installation in accordance with the applicable standards. The substrate must meet the usual requirements for parquet installation (dry, even, solid, crack-free, clean, etc.), crack-free, clean, etc.). If one or more of these conditions are not met, appropriate pre-treatment must be carried out. Special attention must be paid to evenness in accordance with standards in order to avoid hollow layers. The chalet floorboards cannot be used for height compensation due to their large dimensions.

## Flatness tolerances

30-65% RH +18° - +28° C (+64,4° - +82,4° F)
← 2 m (6 3/4') → +/- 3 mm (1/8")
Max: 0.1m= +/- 0.5mm (1/64") 0.6m= +/- 1.0mm (3/64") 1.0m= +/- 1.5mm (1/16") 1.5m= +/- 2.0mm (5/64")

### Moisture values of screeds

Cement screed max. 2.0 CM% (1.8 CM% on underfloor heating)

Anhydrite screed max. 0.5 CM% (0.3 CM% on underfloor heating)

In principle, lower values should be aimed for and the manufacturer's specifications should be observed, especially in the case of screeds with aggregates.

Alternatively to the CM measurement, the corresponding humidity (KRL) can also be measured. According to the working instruction TKB Merkblatt 18, the max. value is 75%. The functional and occupancy heating must be carried out in accordance with the normative specifications and must be documented in corresponding protocols as proof. For screeds with chemical aggregates, the heating of the floor covering must be carried out in

accordance with the manufacturer's instructions.

It is recommended to apply suitable levelling compounds after priming. We recommend always working in a system of primer, levelling compound and parquet adhesive. Existing elastic and textile floor coverings are not a suitable substrate and must be removed completely.

## Special features underfloor heating

Boen chalet floorboards are suited for installation over underfloor heating. Additional H-gluing of the end joint is recommended. is recommended.

Due to the large formats of the individual planks, the swelling and shrinkage dimensions are greater than with classic small-format parquet floors. parquet floors.

In very dry room climatic conditions, slightly larger joints and cupping may occur in winter. Humidifying the air and maintaining a healthy room climate (20 to 22 °C and 35 to 45 % humidity during the heating period) can reduce this phenomenon. the heating period), this phenomenon can be counteracted. It must be ensured that the surface temperature does not exceed 29°C. should not exceed 29°C. For Scandinavian markets, 27° C (80.6° F) applies.

## Selection of the adhesive

Basically, the choice of adhesive type depends on the subfloor and the construction site conditions. Only parquet parquet adhesives that are classified as hard-elastic according to ISO EN 17178 may be used.

As a general rule, the technical data sheets for the respective adhesives in conjunction with the processing instructions of the adhesive manufacturers must be strictly observed.

Adhesive application: Apply adhesive with a suitable notched trowel according to the adhesive manufacturer's instructions. Only precoat as much as can be laid during the open time of the adhesive. Pay special attention to an even application of the adhesive. Marking additional reference lines on the floor is advantageous for accurate pre-coating. During installation, it is advisable to fix the surface with wedges between the wall and the parquet. After the adhesive Once the adhesive has dried, remove the wedges immediately.

## Installation on wooden substrates

Boen chalet floorboards can be installed on blind floors, plank floors or subfloors made of wood-based panels. To do this the elements are screwed or nailed to the subfloor.

Preparation:

Visual inspection of the general condition. The floor must be solid, dry and free of cracks. Check the wood moisture with an electronic measuring device. The wood moisture should be max. 10 %. The strength of the subfloor must be given. Creaking floorboards must be screwed down. Void zones must be filled or underfoamed. The subfloor must be immobile everywhere. Check the evenness tolerances. The same requirements apply as for full-surface bonding. Uneven subfloors can lead to strong creaking noises and must be levelled out.

To avoid creaking noises, we recommend inserting a vapour-diffusion-open foil as an intermediate layer. Do not use vapour barriers or vapour retarders. These could lead to moisture damage and, in the worst case mould growth. The direction of installation should be diagonal or at least transverse to the direction of the substrate.

## General notes

Wood is a natural product in which there may be differences in color and structure due to growth. Exposure to sunlight leads to a natural change in the color of the wood (darkening or lightening). In case of strong incidence of light, e.g. in the case of patio windows, these color changes can also occur partially. This process is particularly caused by the modern modern construction with floor-to-ceiling windows. Please ensure that the rooms remain at a constant temperature even after the installation is completed and that a constant room climate is maintained (see Installation on underfloor heating).

**CAUTION!** Carpet runners or bridges laid on the parquet, especially with insulating underlays (made of plastics, rubber, etc.), heat accumulation and discoloration may occur. Under certain circumstances, this can lead to damage to the parquet.

## Surface protection, cleaning and care

BOEN chalet floorboards are finished with the Live Natural oil system, an oxidative drying natural oil. The oil gives the surface a subtle silk-matt sheen and ensures that it is water-repellent and insensitive to dirt. Oiled floors require somewhat more intensive care than sealed floors. The surface is subject to natural wear and tear.

After installation, you should first care for the parquet floor with BOEN Oil Freshen Up before using it for the first time. For maintenance cleaning and care, we recommend using our special BOEN cleaning and care products for Live Natural oiled floors (see BOEN Oil Freshen Up).

floors (see BOEN cleaning and care instructions).

<https://boen.com/en-us/technical/care-and-maintenance/>

Felt glides under furniture, table and chair legs etc. prevent unnecessary scratches and impressions on the parquet surface. They must be checked periodically and cleaned or replaced if necessary.

