

# PRODUCT INFORMATION

## WOOD-BLOCK PAVING

Holz  
pflaster  
werk



Böhrigen

### What is Wood-block paving?

Wood-block flooring is a particularly hard-wearing, durable and resilient flooring for interiors, which is made of sharp-edged and non-impregnated blocks. The end-grain surface is used as the walking surface of the floor covering.

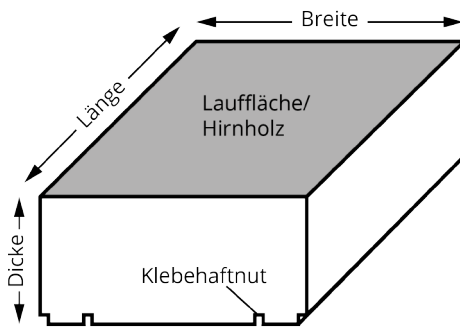


Fig. 1: Schematic illustration of a wood-block

Our wood-block paving is technically dried, milled to size on all length sides and provided with adhesive grooves on the underside of the block. The laying units allow a much faster laying compared to single blocks and thus reduce the time needed for installation. The finished woodblock complies with the guidelines of DIN 68702 (2017-06), unless otherwise agreed.

### PROPERTIES

#### Wood species and quality conditions

Typically, native wood species such as oak, ash, pine, larch, spruce or comparable wood species are used. Modified wood (smoked oak) is possible as well.

The wooden paving blocks are made of healthy, dried wood. Depending on the intended use, a distinction is made between the following three categories:

- Wood-block - RE for representative rooms in public and private areas  
Moisture content: 8...12 %.
- Wood-block - WE for workrooms without large climatic changes  
Moisture content: 8...13 %.
- Woodblock - GE for commercial and industrial purposes  
Moisture content: 10...14 %.

The moisture content valid at the time of delivery and installation must be checked and may deviate from the specified or average value by  $\pm 2$  % for individual blocks. Different types of wood can be used depending on the customer's wishes and requirements for appearance and intended use.

#### Appearance and durability

The surface of a wood-block paving is rustic and representative, according to the natural structure and growth of the wood.

In general, regardless of the quality conditions, natural wood features such as firmly grown knots, insignificant dry cracks and colour differences as well as healthy sapwood are permissible to a small extent (individual knots  $\leq 5$  %, total area  $\leq 3$  %) if they do not impair the utility value.

In addition, for wood-block paving in the categories - WE and - GE, the permissibility of colour differences, healthy sapwood and blue stain also applies.

Even intensive use over longer periods of time only leads to minor wear. The replacement of individual blocks for repair purposes is very uncomplicated.

### Thermal and acoustic insulation

Due to the high thermal resistance, wood-block paving make a decisive contribution to the thermal insulation of the floor slabs, depending on the block thickness. Noise emissions are noticeably reduced.

### Perceptions of warmth and health

Wood-block paving is warm to the feet, offers protection against premature fatigue even during long periods of standing activity and has excellent elastomechanical properties and meets the requirements of workplace guidelines.

Installation on surface-heated floor constructions is possible in principle, but suitability should be discussed on a case-by-case basis and the thermal transmittance should be under the value of  $< 0.18 \text{ m}^2\text{K/W}$ .

### Wirtschaftlichkeit

A floor made of wood-block paving is extremely durable, robust, abrasion-resistant and therefore very cost-efficient over the entire product life cycle. Regular maintenance with products from a specialist retailer supports the positive appearance.

### REQUIREMENTS

#### Subfloor

Suitable subfloors for wood-block paving are composite screed CT-C35-F5 according to the DIN/EN 13813 (2003-01) and/or concrete C20/25 (old: B25) according to DIN 1045-2 (2008-08). These professional subfloors must be classified and measured as sufficiently dry before installation in accordance with the DIN 18356 (2019-09).

Further information on installation can be found in DIN 68702 (2017-06).

#### Surface treatment

Depending on the quality conditions, wood-block paving - RE and - WE are sanded and joints are smoothed (e.g. with a joint filler) before a surface coating. A typical surface protection immediately after sanding is achieved by oiling, varnishing, glazing and cold or hot waxing. DIN 18356 chapter 3.5 must be taken into account or the requirements in the individual case. Wood-block paving - GE can also be sanded after installation, but this is not mandatory. A surface protection contributes to a minimised increase and decrease of moisture. To evaluate the surface, the entire floor area should be considered.

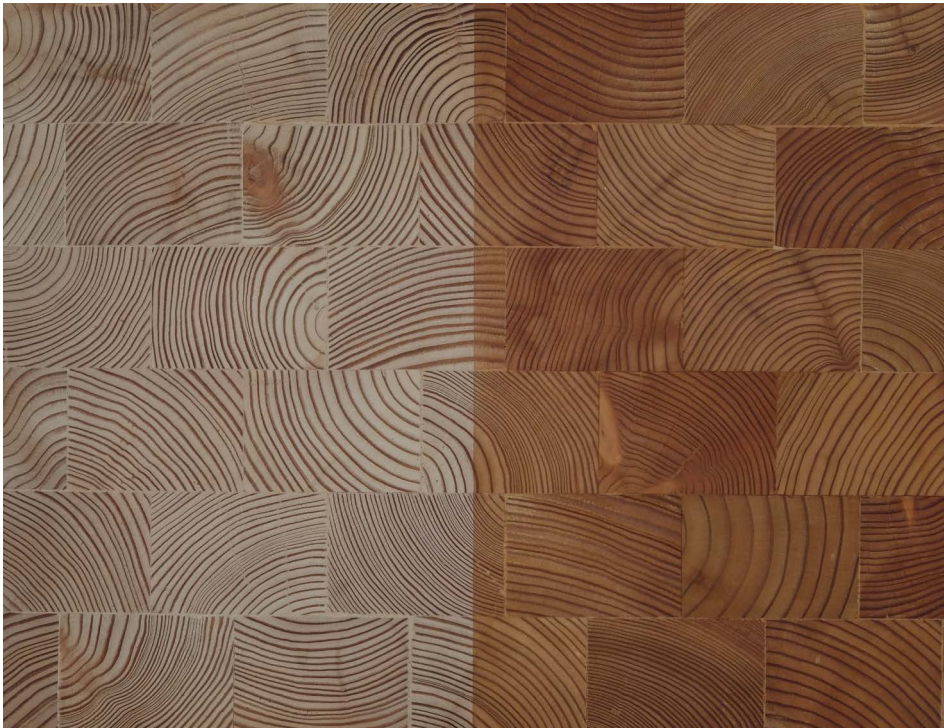


Fig. 2: Sanded, smoothed and unsealed wood-block paving surface in wood species Douglas fir (left) and exemplary surface coating by oiling (right)

Materialspecific, natural colour variations should be countered by intensive mixing of the delivered wood-block paving. This can avoid visual impairments of the overall impression (e.g. placard-like surface sections). Functional construction joints with a stretchable material and distances to fixed installations are to be provided accordingly. Unless otherwise agreed, equal widths and lengths of blocks are to be installed in a room.

As a rustic, characteristic and hard! wearing floor covering, wood!block! paving may have regular joints of up to 5 mm for RE or up to 3 mm for WE. On average, depending on the material and the room climate. In some cases, larger gaps can be tolerated if the overall impression is not significantly impaired. The following information can significantly reduce the formation of joints and guarantee a high!level appearance.

#### Room climate

During the product's service life, climate conditions should be as constant as possible, which must be taken into account in the project planning within the framework of the expected values. In the course of installation, surface treatment up to the completion of the floor, the room temperature should not fall below +15 °C and the subfloor temperature must not fall below +10 °C.

If there are permanently unusual room climate conditions after installation (e.g. extreme solar radiation behind glass facades), the client must draw special attention to this and the wood moisture content of the woodblock to be installed must be adjusted accordingly or defined by the construction planner.

#### Maintenance

Suitable care products must be used in accordance with the instructions for use to ensure lasting good quality. A suitable room climate that is positive for the wood-block paving is predominantly constant with relative humidities of 50...65 % and temperatures of 20...22 °C. Conditions that deviate from this can be checked with suitable measuring devices (e.g. hygrometers) or corrected with humidity controllers (e.g. room humidifiers).

#### Literaturhinweise

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