



INSTALLATION INSTRUCTIONS

WOODflor

NOVOLOC® 5G / T+G

3-layer engineered wood flooring for
a glue-down or floating installation with NOVOLOC® 5G
click-system or tongue and groove profile.



SCHEUCHER®

140

182

222

OVERVIEW

WOODflor NOVOLOC® 5G is an engineered 3-layer parquet flooring for floating or glue-down installations with NOVOLOC® 5G click system or tongue and groove profile.

The special construction of this range has proven its worth over decades and let you profit from an enormous stability, resilience as well as a high warp-resistance. This way **WOODflor NOVOLOC® 5G** parquet can also be installed floating on an appropriate underlay as well as glued down on a screed or wooden composite subfloor. With the reliable NOVOLOC® 5G system, planks are simply locked together, aligning themselves automatically click by click. This easy handling makes the installation of the parquet floor a snap. Planks with tongue and groove profile are installed classically, applying a PVAc-white glue. An approx. 3.6 mm wear layer from solid wood guarantees the possibility of multiple renovation.

WOODflor NOVOLOC® 5G is available in four dimensions.

All of the products have the same profile and can be combined with one another.



WOODflor 222 | 14 x 222 x 2200 mm | 6 pieces/pack = 2.930 m², 32 packs/pallet = 93.773 m²

Suitable for underfloor heating: **R_T = 0.101 m²K/W**



WOODflor 182 | 14 x 182 x 2200 mm | 6 pieces/pack = 2.402 m², 40 packs/pallet = 96.080 m²

Suitable for underfloor heating: **R_T = 0.101 m²K/W**



WOODflor 140 | 14 x 140 x 2200 mm | 6 pieces/pack = 1.848 m², 56 packs/pallet = 103.488 m²

Suitable for underfloor heating: **R_T = 0.101 m²K/W**



WOODflor 182 3-Stab | 14 x 182 x 2200 mm | 6 pieces/pack = 2.402 m², 40 packs/pallet = 96.080 m²

Suitable for underfloor heating: **R_T = 0.101 m²K/W**



RELOC is a specially designed model to easily change the direction of installation on fully glued down parquet floors throughout several rooms without having any transition gaps and therefore significantly improves your productivity. Available on special order for all articles of **WOODflor NOVOLOC® 5G**.

MADE FOR GENERATIONS

Parquet has proven its worth over centuries and is, thanks to its visual and building-biological advantages, one of the most popular floor coverings until today. You have also chosen a high-quality parquet from Scheucher and should delight in its natural beauty, uniqueness and the given healthy room climate for decades to come. Therefore, we recommend to get advice from an expert and let him/her carry out the installation. Please also read these instructions carefully before you start with the installation of your floor.

IMPORTANT INFORMATION

- Always store the parquet so that it is protected from moisture.
Do not store it on fresh screeds in new buildings either, always use some wooden supporting blocks!
- In new buildings, windows should be kept slightly open for some weeks prior to installation. We recommend heating and ventilating the room regularly in interseasonal periods and in winter. Ensure the right room climate is maintained, even in empty rooms.
- Unpack the parquet planks only immediately prior to installation!
- Parquet is a natural product. In case of high humidity in your room, there may be an excessive increase of moisture in your parquet, which leads to swelling as a result. The installation temperature must therefore always be above 18 °C and the relative humidity not above 65%!
- All workings involving water or moisture (tiling, painting, wallpapering, plastering) should be completed prior to installation.
- Always use planks from different packs and install at the same time to get a harmonious overall look.
- Wood is a natural product and each parquet is unique. Therefore it may show differences in colour and structure – for those reasons we will not accept any claims.
- Make sure your parquet has no defects before installation. We will not admit any claims for already installed floors.
- To additionally protect your wooden floor from rising damp, we recommend covering the subfloor with a 0.2 mm thick polyethylene foil **at floating installations**. Overlap the foil by approx. 20 cm and pull it up at the edges.

PREPARING FOR INSTALLATION

A careful preparation is the basis for an expertly installed parquet floor. We strongly recommend to accomplish the following preparatory steps before you start with the installation:

Suitable subfloors

Cement and anhydrite screeds, mastic asphalt, suitable wooden or dry screed panels.

Subfloor requirements

The subfloor must meet all requirements for the installation of a hardwood floor (evenness, dryness, cleanliness, surface strength, freedom from cracks), which must be tested and recorded prior to installation. Evenness: max. 3 mm over a length of 1000 mm.

Make sure that the subfloor is clean by carrying out a visual inspection. Paint, plaster and mortar residues must be scraped off.

Oils and fats should be sanded off. Screed cracks are to be closed properly with screed clips and epoxy resin.

Residual moisture of the subfloor

When using an underfloor heating system, the cement screed must not exceed 1.8 CM-% in residual moisture and anhydrite screed must not exceed 0.3 CM-% in residual moisture. Without an underfloor heating system, the residual moisture must not exceed 2.0 % for cement screeds and 0.5 % for anhydrite screeds.

Whether your subfloor is dry enough for installation can be assessed in two ways:

1. measured and recorded using CM-method
2. measured and recorded by KRL-method (for example HM-Box)

To get limit values for CM measurements as well as the KRL method, please refer to relevant standards or rather contact your screed manufacturer or manufacturer of the measuring instrument for the KRL-method. Due to the variety of chemical modifications of screeds and the novelty of KRL-method it is not possible to determine a standardized limit value setting anymore. Specifications for the installation over an underfloor heating system can be found on page 7.

The firmness is tested by using a grid scratch tester. The screed is firm, when scratches remain sharp.

Please also note:

One of the natural characteristics of wood is that it is hygroscopic, meaning that wood adapts to the moisture content of its environment. This process is commonly known as the swelling and shrinkage of the wood. If the air humidity exceeds 65 % (in the summer months) or falls below 30 % (during the heating season) planks may undergo noticeable changes in dimension (gaps in the heating season and cupping in summer).

Your parquet is delivered with a moisture content of 7 % +/- 2 %. These 7 % +/- 2 % are meant for a relative air humidity from 30% to 65 % and a room temperature kept at a constant of 18–24°C. This room climate not only protects your wooden floor but also enhances your comfort and health and is recommended to be kept. Out of the recommended room climate structural damages can't be avoided. We recommend using an air humidifier during the heating season and an air dehumidifier or short airing at high air humidity to maintain this optimum climate.

Wood is a natural material and thus reacts to daylight by darkening or changing its colour over time. These changes have a positive effect on your Scheucher Parkett® floor: they intensify the original colour of the wood and enhance its natural character, while color contrasts lessen over time. The most distinct colour changes usually occur during the first weeks after installation.

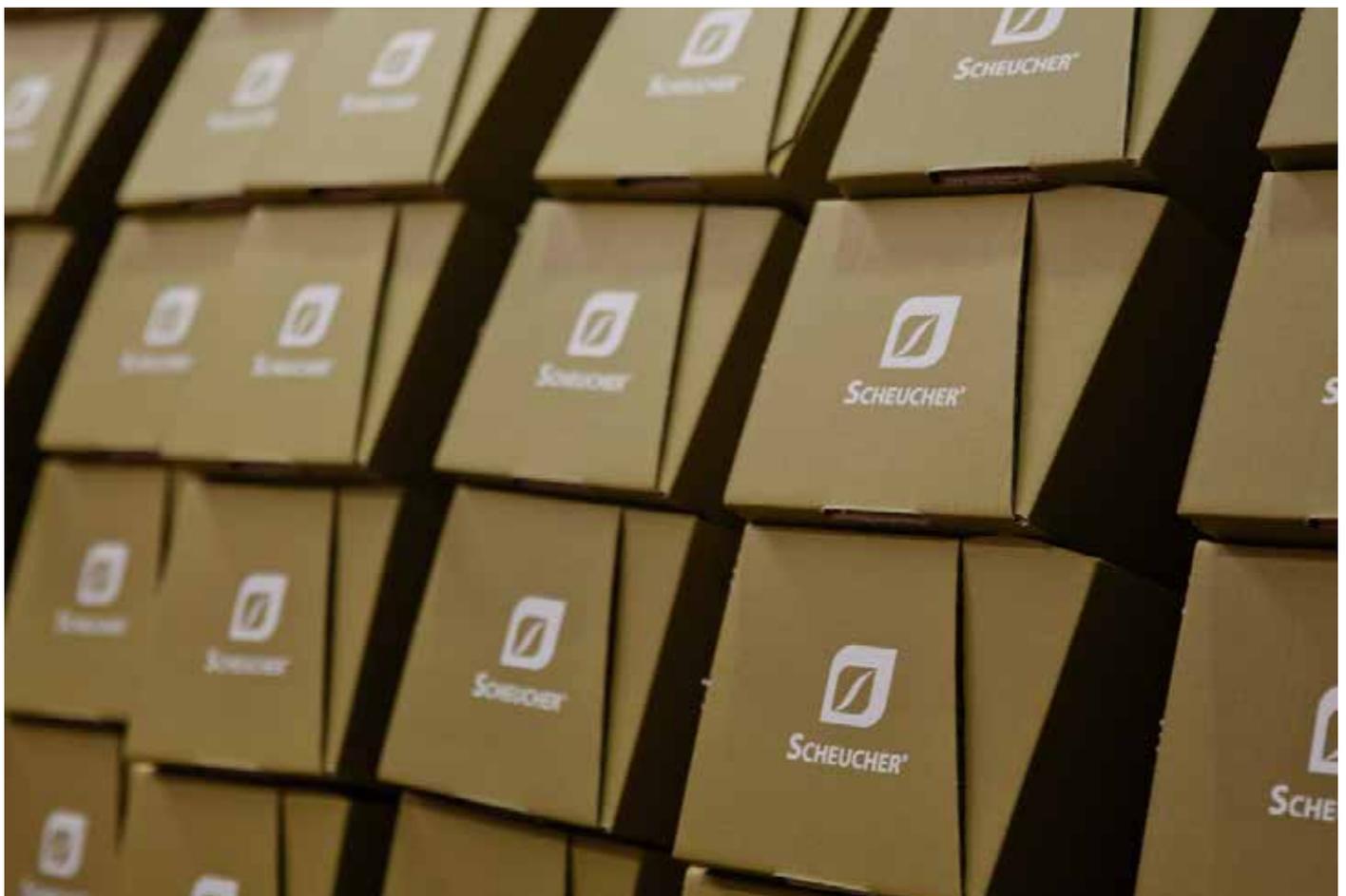
INSTALLATION TOOLS



NOVOLOC® 5G Click-System :
Tapping block, wedges, pencil, saw,
tape measure and square



Tongue + Groove:
Tapping block min. 60 cm in length, pull bar, hammer
800 g, tape measure, pencil, glue (B3) waterproof, glue
bottle, wedge, saw and square



INSTRUCTIONS FOR FLOATING INSTALLATION USING NOVOLOC® 5G SYSTEM



1. Install Scheucher sound-impact insulation mat (or equivalent) edge to edge on the clean and prepared subfloor. This will make your floor resilient and quiet to walk on. Parquet floors are installed using the floating installation method; planks are joined without any glue.

2. Start your installation in the left-hand corner of the room with the plank's tongue side towards the wall. The exact expansion gap between the planks and wall can be adjusted later, once the first three rows have been laid.

3. Press the second plank from the top against the first one and put it on the floor until you hear it click. Pay attention to an exact alignment of the planks. Install the entire first row this way -

4. - except the last plank of the first row! This one has to be cut to size and installed by having regard to the distance required between the floor and the wall (approx. 15 mm). Start the second row of planks with the left-over piece from the first row. Angle the next plank on the long side and push it to the plank previously installed. The plank's offset should not be shorter than 50 cm.

5. Fold down the plank with slight pressure and ensure a tight fit to the plank already installed. An audible click signals that the joint has successfully been made on the front side. Now firmly press down on the end joints again for an ensured locking.

6. Once the first three rows have been laid, the expansion gap between the flooring and the wall can be adjusted. Place spacers between the floor and the wall to ensure an expansion gap of approx. 15 mm:

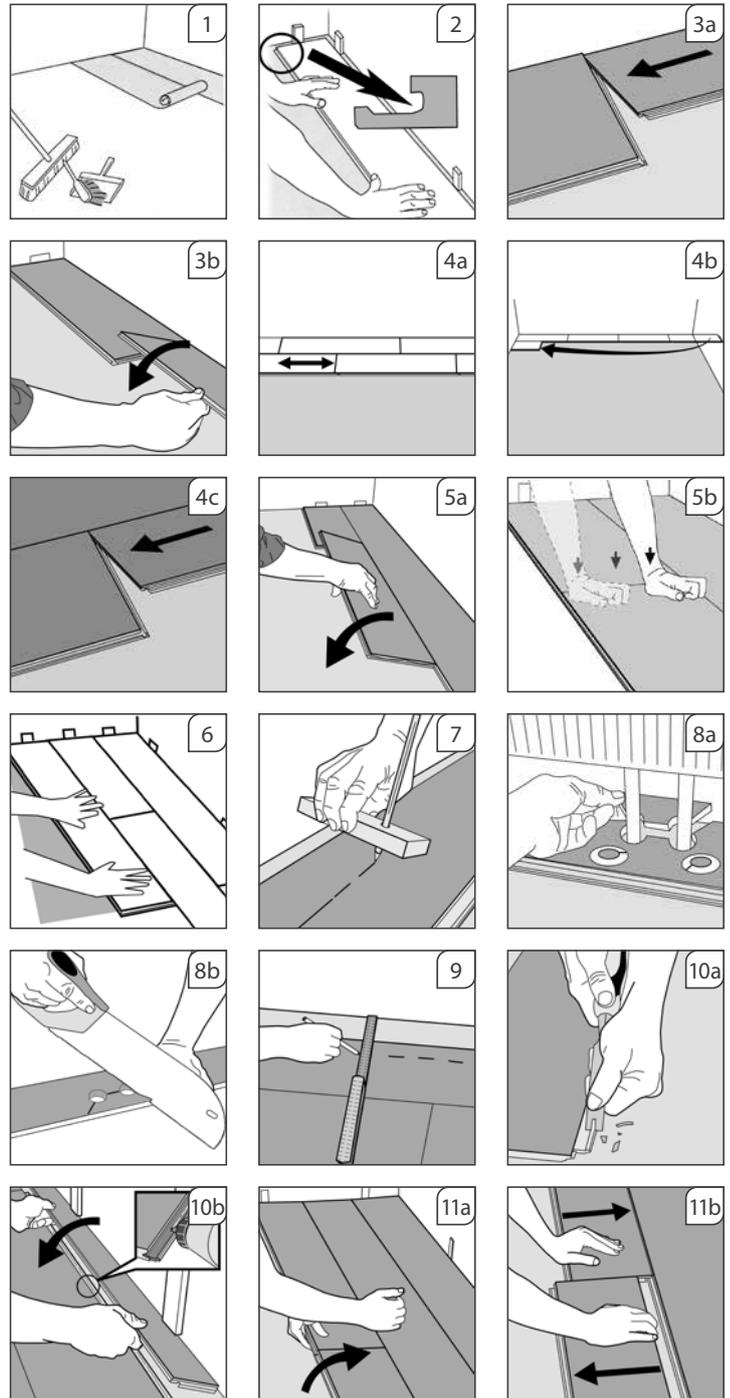
7. Sometimes the first row of planks must be adapted to an uneven wall. Mark the contour of the wall on the planks and cut them to the required width - don't forget the edge distance. The width of the first row must be at least 50 mm. Glue the end joints and then again wedge the first row into position.

8. Drill holes into the planks for the installation around heating pipes. The holes must be at least 20 mm larger than the pipe diameter. Saw plank as shown in the illustration. After the plank is installed, glue the sawn-off piece in place and cover the hole with a pipe collar. If you have to undercut a door frame, use a piece of plank to measure the required spacing.

9. The last row of planks is cut to size by considering the expansion gap required between flooring and wall and is joined with the previous row. The width of the last row must be at least 50 mm. You can now install the skirtings and finish doorways and thresholds with mouldings and transition strips.

10. If necessary, the planks can be installed from both directions and are also easy to remove, which makes it very simple to install in difficult places. If you cannot rotate a plank, e.g. under door frames or radiators, proceed as follows: remove the locking edge using a chisel (10a). Then apply white glue and slide the plank in place horizontally (10b).

11. The floor can be disassembled by lifting (11a) the entire row and slightly tapping the side joint to unlock it. The end joints can be unlocked by sliding the two planks horizontally (11b) in opposite directions (DO NOT LIFT).

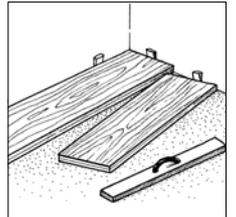


FLOATING INSTALLATION WITH TONGUE/GROOVE



Install a Scheucher sound-impact insulation mat (or equivalent) edge to edge on the clean and prepared subfloor. This will make your floor resilient and quiet to walk on.

1. Start your installation in the lefthand corner of the room. The first row of planks is installed with its groove side towards the wall. It is important to use approx. 15 mm thick spacers to ensure an even expansion space between the plank and wall.
2. Align the first row of planks and also place spacers on both ends of the row.
3. Start the second row of planks with the piece that is left over from the first row. The plank's offset should not be shorter than 50 cm.
4. The long and front sides of the planks are glued throughout. Apply glue on the upper lip of the groove. Use a tapping block to join the planks together.
5. The last row of planks is now cutted to size, having regard to the necessary wall clearance, and is glued to the penultimate row of planks. A pull bar makes it easier to join the boards. Don't forget the wedges on the last row of boards.
6. Once the glue has dried, wedges can be removed and the expansion gap can be covered with a suitable moulding.



GLUE-DOWN INSTALLATION



We recommend leaving a glue-down installation to an expert. If you decide to install the floor yourself, please note the preparation instructions as well as our installation tips.

Depending on the condition of the subfloor, a pretreatment (primers, coatings) according to manufacturer's instructions may be necessary. The firmness of the screed has to be high enough. Only use adhesives that are specifically recommended for a glue-down installation of engineered wood floors. We recommend low emission, water- and solvent-free glues. Please also follow the instructions of the adhesive manufacturer.

1. Start your installation in the lefthand corner of the room. The first row of planks is installed with its groove side towards the wall. Check long distances by using a string line.
2. Leave an expansion space of approx. 10 mm between the floor and the wall.
3. Apply the adhesive with a notched trowel according to the manufacturer's recommendation solely on the area where the next planks are to be installed. The open time of the adhesive must not be exceeded.
4. Put the planks onto the adhesive bed. Ensure an optimum adhesive transfer by pressing the planks against the subfloor. In case of tongue and groove system, a H-gluing must be carried out on the front sides. The glue is applied on the upper lip of the groove. Take care that no adhesive gets on the floor surface.
5. Once the first three rows have been installed, leave the adhesive to cure over night, and continue the installation on the following day.
6. We recommend using our RELOC planks to change direction of installation in a very comfortable way.
7. Do not walk on the parquet floor for at least 24 hours after installation in order to allow the adhesive to dry and cure sufficiently. We recommend placing weights on the installed area (especially on the edge area).

INSTALLATION ON UNDERFLOOR HEATING SYSTEMS

Hardwood floors have favourable thermal resistance values that are neither too high nor too low. Wooden floors always feel warm under your feet, even if the underfloor heating is turned off. Engineered hardwood floors are subject to far less swelling and shrinkage than solid hardwood floors. **WOODflor NOVOLOC® 5G** has a thermal insulation resistance of $0.101\text{m}^2\text{K/W}$ and is therefore ideally suited for the installation on an underfloor heating system. Special guidelines and regulations for the installation on an underfloor heating must be observed. These can be obtained from your specialist dealer, manufacturer or adhesive supplier. Wood species like beech and maple react very quickly to unfavourable climatic conditions, which may cause gaps to form between the planks. We recommend using wood species with low swelling and shrinking characteristics, e. g. oak, for installation over radiant heated floors.

The surface temperature of the parquet must not exceed $29\text{ }^\circ\text{C}$ at any point in the room.

Beside floating installations, a fully glued down installation is a proven and optimum installation method, resulting in an improved heat transfer and a low gap formation. When installing above unheated rooms or rooms without a basement take care of a permanent moisture barrier to avoid possible damage caused by moisture from underneath. Both, professionally prepared wet and dry screed systems can be used. The implementation of screed dryings have to be carried out according to the manufacturer's instructions. The residual moisture due to CM-method at the time of installation must not exceed 1.8 % at cement screeds and 0.3 % at anhydrite screeds. Accelerated screeds must comply with the manufacturer's instructions. In any case, the corresponding rel. humidity of the screed for heated subfloors has to be below 65% rh. Corresponding rel. humidity is meant to be the measured value in the equilibrium state under a sufficiently large, sealed test area above screed's surface.

FLOOR TEMPERING

Since its low efficiency it is not ideal to install a room cooling system in the floor level and should therefore preferably be installed in the wall and / or ceiling area, because cool air always sinks down and never rises. Wood has the positive characteristic of not reacting to changes in temperature with changes in its dimensions. It will only react with swelling and shrinkage when there are changes in the relative humidity of the ambient air. Based on previous experience of tempering floors with an underfloor heating system using cool water in the summer the following was noted according to the current state of knowledge: Scheucher parquet floors are approved for the use on tempered subfloors. The operation of such a tempering is possible, if it is demonstrably ensured (e.g. Fidbox®), that a daily average of 65% relative humidity will not be exceeded and the dew point is not even reached approximately at any time. A fully glued down installation is necessary.

CARE AND MAINTENANCE

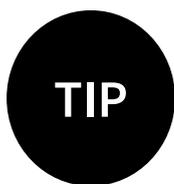


WOODflor NOVOLOC® 5G TENSEO (CLASSICO, MATT)

WOODflor NOVOLOC® 5G products are supplied with an environmentally friendly formaldehyde-free surface finish of high quality. Hardwood floors are subject to natural wear, depending on use. Special emphasis must therefore be placed on proper initial care after installation and subsequent regular maintenance.

WOODflor NOVOLOC® 5G SEDA

In order to preserve its fine appearance and its high quality, wood flooring is treated with oils and waxes according to a tradition dating back many centuries. Only natural oils and waxes are used for **WOODflor NOVOLOC® 5G** products. Hardwood floors are subject to natural wear, depending on use. Special emphasis must therefore be placed on proper initial care with protective wax oil and subsequent regular maintenance.



PLEASE FOLLOW OUR CARE AND
CLEANING INSTRUCTIONS!



To preserve the beautiful look of your parquet floor and protect its surface, please avoid mechanical damages wherever possible. To avoid scratches and serious damages it is recommended to place mats in the entrance area and remove sand and grit with a broom immediately. Equip your movable furniture with felt gliders and use special rolls for wooden floors on office chairs. Do not leave any wet items on your parquet floor. To assess results properly, try out care and/or cleaning procedures in an inconspicuous place before applying the product. Do not use any strongly alkaline cleaners or acids, these can irreversibly discolor your wooden floor.

FIDBOX

The installation of a FIDBOX is recommended per each housing unit, but at least once in an area of 100 m². It registers the room climate under and in the parquet floor over years.

Hygroscopicity is one of wood's natural characteristics. That means that it adapts its moisture content to its environment. This process is described as "the wood working" (swelling and shrinking). With a humidity above 65 % (in the summer months) or below 30 % (during the heating season), this may result in perceptible changes in the dimension of your parquet elements (bulging/warping in summer, shrinkage during the heating season). These effects are typical characteristics of wood and the ultimate proof of how natural wood is as a material. Our way of life and further developments in residential buildings with very tight outer walls and a controlled ventilation in living areas, as well as underfloor heating and cooling, mean that parquet and floorers are faced with ever increasing challenges. The number of damage caused by indoor climate rose sharply and, in many cases, no data on indoor climate could be presented. This is a thing of the past now! The Fidbox® is simply built into the parquet floor, measures the temperature and relative humidity automatically every day over many years and saves the data. These can be read out and evaluated by radio at any time - without having to destroy the parquet and ensures a simple and regular floor inspection so that your floor remains beautiful and maintains its value for many years. The installation of a Fidbox® is recommended by all leading parquet manufacturers at a total parquet area ≥ 50 m² in the case of gluing and/or underfloor heating.

□ Specifications Fidbox®

- Read out area: up to 30 m in an open environment, in an installed condition up to 15 m
- Dimensions: 95.5×52.5×7 mm
- Weight: 30 g
- Memory: up to 1048592 records
- Measuring interval: can be set to variable intervals, from one second to 45 days
- Moisture: accuracy of up to $\pm 0.2\%$ rF
- Temperature: accuracy of up to $\pm 0.3^\circ\text{C}$ at $+25^\circ\text{C}$
- Lifetime: up to 7.5 years, measuring time interval 8 h



□ Benefits for the constructor:

- Complete supervision of the construction phase before takeover
- Trust and credibility from the outset
- Precise conclusions on how to improve the room climate
- Secures the value of the parquet flooring
- Data for a quick clarification of facts
- Legal security through reliable data

□ Benefits for the floorer:

- Complete supervision of the construction phase before takeover
- Reduction of complaint costs
- Security for 3 or 5 years
- Clarity on liability issues
- Active support in cases of damage
- Additional business through service benefits – floor inspection

□ Benefits for the investor:

- Complete supervision of the construction phase before takeover
- Additional benefits for property marketing
- Security for 3 or 5 years
- Absolute clarity on liability issues right from the start
- Verifiability of general contractor services before acceptance
- Investment protection for investment properties

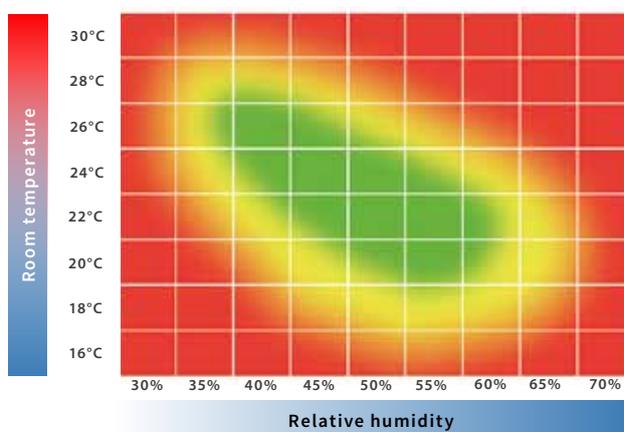
ROOM CLIMATE

EN 15251:2012 „Input parameters for indoor climate“ recommend a seasonally caused relative humidity of approx. 30% - 65% for a healthy room climate. In this range, natural characteristics of wood may show up in form of joints, shakes or cupping of your parquet flooring in a moderate degree. In case of long-term deviations, health impairments or excessive changes in the appearance of your hardwood floor, like greater deformations, joints and crackings may occur.

Wood as a natural material reacts more sensitively to changes of the relative humidity than to changes of temperature. By overheating your underfloor heating you'll compound reducing the relative humidity in your room, which in turn leads to an under-drying of your wooden floor. The key to success lies in the observance of an optimum air humidity of 30% to 65%, which generally requires an appropriate air humidification in the heating season. That's why keeping the air humidity at the right level is a very important factor for the decade-long pleasure with your high-quality parquet floor from Scheucher.

-  Optimum Area
-  Temporarily acceptable range
-  Inappropriate indoor climate for humans and wood

This „feel comfortable“ chart for indoor room climate demonstrates the combination of relative humidity and room temperature where the overwhelming majority feels comfortable in indoor rooms.



 06 LE3S0136EN	Scheucher Holzindustrie GmbH Zehendorf 100 A-8092 Mettersdorf
	Number issued by the notified body: NB 0766 / EPH Dresden
EN 14342:2013	Multilayer parquet with tongue & groove profile or NOVOLOC® 5G system for glue-down or floating installation
Reaction to fire	floating install.: D _{fl} -s1 , glue-down installation: C _{fl} - s1
Average density	500 kg/m ³
Total thickness	14 mm
Formaldehyde emission	E1
PCP emission	<5 × 10 ⁻⁶
VOC emission	compliant with German AgBB-scheme, French. A+, Belgian VOC Regulation., LEED v4, BREEAM Gen.Level
Thermal conductivity	0.14 W/mK
Biological durability	Class 1
Breaking strength	NPD
Slipperiness	NPD

All recommendations are based on extensive practical experience. Experience has shown, that a processing takes place under different conditions specified on site, so that no warranty or liability claims can be derived from our instructions.

WOODflor NOVOLOC® 5G
 Installation instructions , version 2020

Scheucher Holzindustrie GmbH
 Zehendorf 100 | A-8092 Mettersdorf
 +43 (0) 3477 2330 - 0 | info@scheucherparkett.at
 www.scheucherparkett.at