

SUBFLOOR REQUIREMENTS – IMPORTANT INSTRUCTIONS FOR THE INSTALLATION OF TER HÜRNE FLOORING

**Please also note the special instructions for
gluing down products in a separate guide.**

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1. Installation methods

The following ter Hürne products types are suitable for various methods of installation. Their suitability is always subject to the subfloor meeting all the requirements described.

Type of floor	Floating installation	Glue down	Screwing/nailing down
Parquet	Screed, Dry screed, Tiles, PVC, Linoleum, Wood/Chipboard	Screed, Dry screed, Tiles, Wood/chipboard	Not suitable
Avatara – MultiSense-Floor®	Screed, Dry screed, Tiles, PVC, Linoleum, Wood/Chipboard	Not suitable	Not suitable
LVT (Solid)	Screed, Dry screed, Tiles, PVC, Linoleum, Wood/Chipboard	Screed, Dry screed, Tiles, Wood/chipboard	Not suitable
LVT (on HDF baseboard)	Screed, Dry screed, Tiles, PVC, Linoleum, Wood/Chipboard	Not suitable	Not suitable
Laminate	Screed, Dry screed, Tiles, PVC, Linoleum, Wood/Chipboard	Not suitable	Not suitable

Detailed installation instructions for floating installation are included with every laminate, LVT, Avatara – MultiSense-Floor® and parquet packaging.

The instructions for glue down installation for parquet and LVT (solid vinyl), as well as all other installation methods mentioned, are available to download at www.terhuerne.de

Compliance with these conditions is an important part of the ter Hürne terms of warranty.

2. General subfloor requirements

2.1 Types of subfloor

Basically laminate, LVT, Avatara – MultiSense-Floor® and parquet can be installed on screed, dry screed, PVC, linoleum or tiles (see chart). It is not possible to install any of these products on carpet or textile subfloors.

2.2 Condition of the screed

The subfloor must always be firm, level, dry and clean. There must be no cracks. Uneven areas must not exceed a depth of 2mm over a length of 1 metre. Screed must be correctly prepared prior to installation according to DIN 18365 Floor Covering Works and surface evenness tolerance according to DIN 18202 levels. We recommend the use of the correct levelling compound and suitable primer to level out uneven areas in the floor.

2.3 CM Measurement

As a general rule, a professional installer must measure the moisture content of all mineral subfloors, such as cement screed, calcium sulphate screed, concrete, stone tiles, etc. and produce a measurement record. The readiness of the mineral subfloor for installation is the prerequisite for a professional installation. The following maximum residual moisture content must be considered (assuming there is no warm-water underfloor heating system):

Cement screed: CT < 2,0% CM

Calcium sulphate heating screed: C < 0,5% CM

2.4 Moisture barrier

It is essential that a moisture barrier (PE-film) of at least 0.2mm thickness is used on a mineral subfloor. PE film must not be used on non-mineral subfloors such as wood (chipboard, old floorboards, etc.). We always recommend the use of an appropriate impact or footfall sound underlay. Please refer to the underlay materials in the ter Hürne accessory range.

2.5 Floorplate

In rooms without a basement, the floorplate must be sealed on site against moisture from the ground in accordance with DIN 18195.

2.6 Glue down installation on particular types of subfloor

Parquet and LVT floors (solid vinyl) can be glued down. Laminate, LVT (on HDF baseboard) as well as the Avatara – MultiSense-Floor® are not suitable for glue down installation. When installing on tiles, the surface must be well sanded, level and clean (see 2.1). The tiles must be firmly anchored in the mortar bed. We recommend carrying out a gluing test. The glue down method can be used on old floorboards, chipboard or counterfloors as long as certain conditions are met. The area on which the flooring is to be installed must be prepared so that it is dry, level, firm and loadbearing.

Chipboard must be permanently bonded to the substrate or screwed onto joists, the tongue and groove connections should be glued and sufficient clearance left on all sides to other components. Old floorboards must be permanently bonded to the subfloor in order to prevent creaking noises. If necessary transversely deformed planks should be planed to make them flat. The planks are glued transversely on the old floorboards. Due to differences in the individual conditions, we recommend you contact your specialist dealer or the manufacturer in case of any doubt.

2.7 Room climate during installation

The room climate conditions during installation of the planks (without underfloor heating) should be as follows:

- minimum air temperature 18° C
- minimum floor temperature 15° C
- maximum relative humidity 75%; maximum 65% for glue down installations (according to TKB instructions)

2.8 Drying out of materials

Due to the characteristics of wood, as a natural material, and the climate conditions prevalent within the room during periods when heating is used, the formation of joints and cracks as well as drying out of the material cannot be completely excluded.

3. Additional requirements with warm water underfloor heating systems

3.1 Suitability

The ter Hürne laminate, LVT, Avatara – Multisense-Floor® and parquet flooring ranges are ideally suited for efficient use in conjunction with warm water underfloor heating systems on cement or calcium sulphate heating screeds. The favourable thermal resistance means that heat is absorbed and transferred evenly.

3.2 Glue down installation

The glue down installation of parquet compared to floating installation method is ideally suited for use on warm water based underfloor heating systems, thanks to the low thermal resistance. Static and dynamic loads are largely absorbed by the elasticity of the adhesive. Footfall sound is also significantly reduced. For glue down installations, please refer to the preparation requirements according to VOB part C DIN 18356 “parquet works” and our installation instructions. We recommend only the use of Sikabond adhesives, which are optimally suited for use with ter Hürne products.

3.3 Screed drying time

Freshly applied screed must be allowed to harden before any heating is used; the length of time will depend on the type of screed used. For cement screed the drying time is minimum 21 days and for calcium sulphate screed 7 days before the heating engineer may perform a so-called functional heating. This only checks the heating system for leaks and the results are recorded in accordance with DIN 4725-4.

3.4 Heating record

It is imperative to keep a heating record of the underfloor heating system and to make this available to the floor installer. The heating record is only a record to prove that the heating system is working properly and is not sufficient on its own to evaluate if the screed is ready for the installation of the floor. Further information and instructions from the Central Association of Parquet and Flooring Technology are available at www.zv-parkett.de

3.5 CM Measurement

Similarly to the information provided in point 2.3, the following residual moisture content applies for subfloors if there is a warm water underfloor heating system:

Cement screed: CT < 1.8% CM

Calcium Sulphate heating screed: CA < 0.3% CM

3.6 Heating up and cooling down

When the heating system is first commissioned following installation of the floor, as well as at the start of any period when the heating is used, the inlet temperature should be increased by 10°C each day until the full (maximum) heating capacity is reached. Cooling down should also take place in stages of 10°C per day. The screed must always be heated up prior to any installation work or any renovation work in old buildings if the floor is to be installed on an old screed substrate – this also applies during the summer months.

3.7 Room climate during installation

When installing boards (when an underfloor heating system is present) the room climate should meet the following conditions:

- Minimum air temperature 18°C
- Floor temperature with underfloor heating activated 18 – 22°C
- Maximum relative humidity 75%; maximum 65% when gluing down (according to information of the Technical Commission for Industrial Adhesives)

3.8 Maximum surface temperature

A maximum surface temperature 24°C must not be exceeded, either during the installation nor during ongoing use. Please note that areas which are covered (for example by carpet) can cause overheating.

3.9 Drying out of materials

The natural swelling and shrinking of wood which is more pronounced during periods when an underfloor heating is in operation are typical behavior characteristics (see also 2.8) and do not constitute grounds for complaint. Deformations caused by these movements also do not constitute grounds for complaint.

3.10 Heating system

A different kind of underfloor heating system from the warm water underfloor heating system previously described cannot be recommended for use with ter Hürne floors. Please follow the instructions of the underfloor heating manufacturer.

Note:

Our technical usage instructions written or verbal, in general, in the installation instructions, in the technical information sheets and in all brochures are based on experience and to the best of our knowledge, however they do not imply any liability. Due to the many varied application possibilities it is not possible to describe all details. ter Hürne therefore does not accept any liability arising from the use of these instructions.

These instructions can be amended at any time without notice in line with technical advances

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