

LVT fitting- Guide essential requirements

Please read these installation guidelines thoroughly before starting to install the product and strictly follow the instructions herein during installation. Any damages or losses which may occur due to failure to comply with these instructions shall not be covered under warranty.

Inspection and Preparation of the Floor and Installation Conditions

When examining the flooring, the following points should be observed, and the subfloor must be prepared in accordance with these factors.

- 1- The surface of the floor should be 100% flat, dry, clean, crack-free and non-porous.
- 2- There should be no paint, wax, varnish, oil, solvent, varnish, putty, adhesive, heavy foreign materials or residues on the floor.
- 3- There should be no undesirable height differences at the transition points between the floors that the planks will be laid and adjacent floors. You can measure potential differences in height with the help of a marking gauge.
- 4- It should be checked if the temperature and humidity of the installation area are within the standards or variable.
- 5- If there is a subfloor-heating system in the area of installation, the temperature of the heater must be controlled, as the temperature of the floor must be in accordance with the allowed temperature of the LVT material, and a heating system must have instructions that allow it to be used together with a flooring system.
- 6- If the application floor is elevated or on floors with steel construction, it should be checked whether the bottom surface is exposed to air circulation.
- 7- The possible curvatures on the floor should not be more than 2 mm. (can be measured with a steel ruler).
- 8- Perfect laying of flexible floor planks requires a relative humidity of less than 70% with an ambient temperature of at least 18°C and a base temperature of at least 15°C. In any case, measure the moisture content of the floor before continuing. If you are not sure, consult an expert.
- 9- Not only the ambient temperature, but also the temperature of the floor coating and the lining and adhesive should be at least 18°C.
- 10- All floors except for cast asphalt have a certain maximum admissible moisture content (also known as structural moisture content). CM unit is one of the reliable tools to determine the moisture content. The measured values should be reported in writing to the client.

Composition of the Sub-Floor	Permitted moisture content for the laying of synthetic floor tiles. Values were measured using CM unit.
Concrete (Sand/ Cement)	<2,5%
Anhydride	0,3% - 0,5%
Magnesite	<0,3%
Xylolite	8% -12%
Cold Bitumen	<2%

- 11- Do not use methods that require drilling holes in the floor to measure moisture content (eg CM unit) on sub-heated floors. Holes can damage the heating system. Locations with subfloor heating usually have operating instructions or a heating protocol. The humidity content can be measured easily by following these rules.
- 12- It is the responsibility of the installer to check the surface quality. If the surface quality is not suitable for flooring, installation should not start unless adequate quality is sustained. 13- Subfloors must be carefully checked for moisture problems. Strong SPC Structure is water-resistant. It is NOT a water-proofer. Any moisture problems need to be addressed prior to installation.

We recommend fitting this product with our specific [Underlay Supremo Vinyl 1.5mm](#) (Unless the product has pre applied underlay already, in this case do not use any type of underlay but the pre applied underlay).

It needs to be installed on top of a 100% straight, rigid, and even subfloor (We highly recommend using self-levelling compound to reach high enough degree of evenness).

When installing on top of screed the screed moisture must not exceed 2%.

Installation Highlight	If the sub floor is made of wood floorboards a minimum 18mm plywood should be applied and secured before fitting the LVT
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We strongly recommend that Vinyl flooring tiles must be installed only on dry screed subfloor and only by a professional fitter.

Installing this product on top of an uneven subfloor or unsuitable underlay will cause the click system to fail and the floor to get damaged over time.

You must create an expansion gap or barrier every 30m² when fitting LVT.

Floor Conditions for Subfloor Heating Systems:

- 1- In case of flooring on a subfloor heated surface; there must be a heating protocol showing that it is appropriate to lay tiles on the floor. In principle, the principles specified in EN 1264-2 (Ground Heating Systems and Components) should apply.
- 2- Temperatures between 18° C and 22° C should be taken into account when flooring with subfloor heating systems. During the months that the heating system is used, the system must be operated between 18 ° C to 22° c at least 72 hours before and after the laying of the new tiles. Fast or noticeable temperature changes can lead to openings or creeps at joints.
- 3- The maximum temperature must not exceed 26° C during normal use after laying and waiting times have elapsed.

Pre-operations to Be Done If the Subfloor Is Not Smooth

If the flooring is not suitable, it should be underlined and smoothed. If the floor is not leveled, even the smallest curvature in the bottom will be striking to the eye. You can contact the supplier of adhesive or underliner regarding this subject. Underlining and leveling should be made in accordance with the instructions provided by the manufacturers of the products used. This ensures permanent adhesion of the upholstery to the bottom layer, prevents cracks and provides sufficient compressive strength. For rolled loads, the minimum thickness of the leveling compound is 1.5 to 2 mm. When using dispersion adhesives, non-absorbent dense subfloors should be leveled with a leveling compound with a sufficient thickness (at least 2 mm).

Preparing of the Environmental Conditions and Ambient Temperature Before Installation;

- 1- If the floor coating used is a click product, the tiles should be kept in small stacks for at least 24 hours in the room where they will be laid. If the product to be used is a dry-

back type, the adhesive that will be used should be kept in the room where they will be applied together with the flooring material for 48 hours.

2- The ideal room temperature is about 18° C and the humidity should not exceed 70%. Thus, the coatings will adapt to room temperature and ambient conditions. If these conditions are not present, various problems may occur during the assembly process. If the temperature is too low and/or the humidity is too high, it will be difficult to install the flooring and the holding power of the adhesive will be weak.

3- During the adaptation of the products to the ambient conditions, the LVT floor coverings should be kept horizontal and flat so that deformations are prevented.

4- Gaps may occur if floor linings are not left in the ambient conditions a sufficient amount of time for adaptation or if improper adhesives are used.

Observation of Floor Coatings, Prevention of Color Discrepancies

Floor coatings are carefully controlled before leaving the factory. Nevertheless, perform a visual inspection of the floor covering before beginning the installation process. Any possible deficiencies can only be corrected before assembly.

Color discrepancies from production must be tolerated in these controls. In case of unacceptable discrepancies, the delivered product should be returned to the supplier. After the flooring is done, the products can not be returned due to any color difference, surface structure and defects related to the patterns.

Specific information such as your billing number and order number will be required for complaints to be processed as required.

Flooring Plan

LVT floor tiles can be laid as parallel, vertical or curved as standard.

When installing LVT flooring tiles, place the floor panels that make up the floor covering to match the textures to minimize the need to cut parts of it. Before starting the installation; we recommend that you plan a layout of how you will place the flooring tiles in the room.

Direction of the Flooring

Depending on the series of LVT floor coverings, some or most of the flooring pieces come with signs indicating the laying direction. An arrow on the back of the floor covering indicates the direction in which the coating will be laid. The orientation of the flooring elements should be determined and laid depending on the size of the room and its geometry. It should be observed that all coating elements point at the same direction. If the shape or patterns you want to create require you to not comply this direction marks, you can lay the pieces in different directions other than the ones shown on these marks. It is advisable to lay the tiles in the direction of the entrance of the room and also the lighting.

Installation Process (For Click and Dry-Back products)

Do not tile the floors with referencing the walls. The walls may not always be flat. It is advisable to start the installation by taking the plane with the help of a rope.

For the LVT Click floorings, the flooring should be laid by leaving 10 mm. working space from the wall base. If the flooring is to be laid on a long plane, a dilatation profile should be placed at each 15 meters. The space between the materials to have the dilatation profile should not be less than 7 mm. Before assembly, the joints of all Click products should be checked with the aid of a miter and ruler, no tiles that could create an angular or installation problem should not be assembled.

Click ground materials should start to be used after at least 24 hours of waiting time after finishing the laying process.

For LVT Dry-Back bonding floor tiles, the flooring should be laid by leaving 5 mm. working space from the wall base on the floor. It is recommended that the adhesive material to be used is of the brand specified by the company.

(Adhesives: UZIN DENLAKS: PU99, KE-2000S, HENKEL: Thomsit KI88, Thomsit KI88E, Thomsit R710. You can get the technical documentation of the adhesives, from their labels and the internet sites of the manufacturers.) (UZIN-DENLAKS PU99 adhesive is suitable for cold

climate conditions; it can withstand up to -20 degrees temperature and highly recommended to use in flooring applications.)

Adhesives can only be applied to industrial floors and only after special pretreatments (eg. underlining and leveling). Before doing this, please apply the adhesive according to the instructions of the recommended adhesive company. Solvent-free, dispersion adhesives can be used only for PVC floor coatings.

Dry-Back products must not be used or stepped on for at least for 48 hours after the laying process has been completed by means of adhesives.

It is necessary for the tiles to unite with each other with a full 90° angle. Possible irregularities inevitably lead to buckling and swelling caused by compressions.

Likewise, the climate, temperature effects and changes (eg. from subfloor heating, from excessive sunlight), floors, pre-treatments applied to the floors, adhesives and the way they are applied have a significant effect on the formation of gaps in the joints.

Cutting Procedure

LVT flooring tiles must be cut to perfectly fit with each other. We recommend the use of trapezoidal laying knife, veneer lathe, lower edge cutting and severing tools and a steel ruler.






















Inadvisable Installations:

It is not advisable to use LVT Dry-Back products together with wooden floor covering (laminated parquet, solid parquet, laminated parquet etc.).

TECHNICAL SPECIFICATIONS

EN ISO 10582

GRIT ◀
LVT Collection

PRODUCT SPECIFICATION	STANDARD	2,50 mm. Dry-Back	5,00 mm. Click/Loose-Lay
 Total Thickness	EN-ISO 24346	2,50 mm.	5,00 mm.
 Thickness of Wear Layer	EN-ISO 24340	0,55 mm.	0,55 mm.
 Collection		26	26
 Usage Classification	EN-ISO 10582	Class 23 / Class 33 / Class 42	Class 23 / Class 33 / Class 42
 Tile Size	EN-ISO 24342	Dry Back: 305,0 x 610,0 mm. Dry Back: 457,2 x 457,2 mm. Dry Back: 610,0 x 610,0 mm.	Loose Lay: 305,0 x 610,0 mm. Loose Lay: 610,0 x 610,0 mm. Click: 296,2 x 601,2 mm.
 Plank Size	EN-ISO 24342	Dry Back: 177,8 x 1219,2 mm.	Loose Lay: 177,8 x 1219,2 mm. Click: 169,0 x 1210,4 mm.
 Packaging Per Carton: Tiles		Dry Back: 305,0 x 610,0 mm. - 3,163 m2 17 pcs. Dry Back: 457,2 x 457,2 mm. - 1,672 m2 8 pcs. Dry Back: 610,0 x 610,0 mm. - 2,976 m2 8 pcs.	Loose Lay: 305,0 x 610,0 mm. - 1,488 m2 8 pcs. Loose Lay: 610,0 x 610,0 mm. - 1,488 m2 4 pcs. Click: 296,2 x 601,2 mm. - 1,424 m2 8 pcs.
 Packaging Per Carton: Planks		Dry Back: 177,8 x 1219,2 mm. - 3,685 m2 17 pcs.	Loose Lay: 177,8 x 1219,2 mm. - 1,734 m2 8 pcs. Click: 169,0 x 1210,4 mm. - 1,636 m2 8 pcs.
 Total Weight	EN-ISO 23997	4.480 kg/m ²	9.480 kg/m ²
 Abrasion Resistance	EN 660-2	Group T	Group T
 Castor Chair Continuous Use	EN 425 / ISO 4918	No effect	No effect
 Indentation-Residual	ISO 24343-1	≤0,10 mm.	≤0,10 mm.
 Light Fastness	EN ISO 105-B02	≥6	≥6
 Resistance to Chemicals	EN ISO 26987	Very Good	Very Good
 Dimensional Stability	EN-ISO 23999	≤0,25%	≤0,15%
 Thermal Resistance	ISO 8302:1991	0,0134 m ² K/W	0,0193 m ² KW
 Reaction to Fire	EN 13501-1	BFL-S1	BFL-S1
 Slip Resistance	EN 13893	DS	DS
 Sound Reduction: Impact Sound	EN ISO 10140-1-5:2010 EN ISO 717-2:2013	6dB	8dB
 Formaldehyde	EN 717-1:2014	E1	E1
 Static Electrical Charging	EN 1815	-	≤2kV

PRODUCT SPECIFICATION	STANDARD	2,50 mm. Dry-Back	5,00 mm. Click/Loose-Lay
 Total Thickness	EN-ISO 24346	2,50 mm.	5,00 mm.
 Thickness of Wear Layer	EN-ISO 24340	0,70 mm.	0,70 mm.
 Collection		26	26
 Usage Classification	EN-ISO 10582	Class 23 / Class 34 / Class 43	Class 23 / Class 34 / Class 43
 Tile Size	EN-ISO 24342	Dry Back: 305,0 x 610,0 mm. Dry Back: 457,2 x 457,2 mm. Dry Back: 610,0 x 610,0 mm.	Loose Lay: 305,0 x 610,0 mm. Loose Lay: 610,0 x 610,0 mm. Click: 296,2 x 601,2 mm.
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 Formaldehyde	EN 717-1:2014	E1	E1



TS EN 14041

EN ISO 10582

Phthalate Free

