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Installation Instructions on multi-layer floor board

Premises and preparatory works

In case of newly-built and renovated facilities the installation of multi-layer floor, as well as parquet, shall be a final stage. Plastering, painting, installation of windows shall be completed beforehand in order to maintain stable temperature parameters and humidity indoors. The floor can be laid at different solid surfaces such as concrete, anhydrous plaster, existing wood floor, clay tiles, etc. Soft pads shall be removed during flooring installation by means of gluing to concrete.

The base for floor laying shall be flat and clean and of relevant moisture. In case of gluing elements directly to the base, it shall be properly primed. Care should be taken to leave a gap for extension near walls, doors and places of pipes laying, for example heating system pipes. The period between the date of floorboard delivery to the place of its laying and the time of installation commencement shall be at least 48 hours. During this period, its temperature and moisture content parameters will stabilize and get acclimatized to the parameters of rooms to be installed in. During installation, all dimensions of the floor to be laid shall not exceed 6 meters wide and 20 meters long. Otherwise, leave service gaps for extension.

During floor laying, each particular room and/or asymmetric surface in one room shall be separated. Before starting installation unpack the packs and inspect boards. It is recommended to perform it by natural light. Before and during the floor laying, control the state of elements. Board moisture content shall be measured immediately after unpacking. If moisture content fails to conform to norm $9\pm 2\%$ of wood relative moisture, other packs shall not be unpacked. Only originally packed product (packed in film) can be a reason for considering moisture-related complaint to Manufacturer. Floor laying and its operation shall be performed at a relative humidity within 45-55% and at 18 to 24°C. Regardless the floor installation method, base moisture content shall withstand the following relative humidity for wood: for cement base – up to 1.8%, for anhydride (gypsum) base – up to 0.5%, for wooden base – up to 7-9%. It is recommended to command the services of professional organisations having relevant tools in order to measure the base moisture content and assess its durability. The relevant certificate shall confirm the base inspection.

Floor installation: floating system

In case of floor installation using floating system with polyethylene pad, the base shall be prepared. Plywood sheets, cork pad or corrugated board with jointing edges can be applied for this purpose. Base preparation allows to level minor surface imperfections, to improve heat and acoustic parameters of the existing base. In case of traditional cork or wood grain slabs, leave a 2 mm gap between them and 10 mm gap between them and the wall.

Floor installation: gluing to base

Another method of installing the multilayer floorboards is their gluing to base. During board gluing, observe the same installation and acclimatization requirements as during floating system installation. The base shall be dry, clean and flat. It shall also meet certain strength parameters: pull strength – minimum 1 MPa, compression strength – minimum 25 MPa. These parameters can be developed by organization specializing in parquet flooring or, in case of base made of sack solution, we can read its strength parameters marked on the packaging. Apply glue on prefixed base using applicator. The glue shall cover uniformly minimum 80% of board surface. Use only the glue consisting of one or two components for gluing. Dispersing glues with water as a solvent shall not be applied (wood changes in size when affected by water). The best selection is flexible glue such as two-component PU adhesive. "CARPANTIC" multi-layer wooden floor can be installed and used on floor heating systems (in case of floor heating, it is recommended to glue boards to the base).



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General requirements to floor heating system

Except for the general requirements to room and base on which wooden floor to be laid, the following shall be considered in case of floor heating system:

- Multi-layer wooden floor shall be installed on hydronic heating system. It can also be installed on electric heating system provided, that such system allows to control and restrict floor heating temperature to a high precision.
- Base structure shall have embedded layer of material distributing heat uniformly over the whole surface in order to prevent local rise of temperature.
- Humidity insulation (0.20 mm PU film) shall always be laid under the base material.
- It is prohibited to install multi-layer wooden floor on the base which is designed for floor heating only partway. In this case, individual surfaces shall be separated with extension spaces.
- Humidity inside the room where the floor is laid shall be about 45-55% (application of effective air humidifying system allows to maintain proper humidity during heating period).
- In case of heating system, the base shall be laid as per Manufacturer's instructions. The Contractor shall heat the base and submit base heating certificate to User. Besides, a person laying the board shall certify the conformance of humidity and durability requirements.
- For the best results of heat effect, it is recommended to glue the floor to the base. It shall be performed by a qualified specialist.
- When using the floor, maximum temperature on its surface shall not exceed 26°C in any place. It also applies to the places under furniture and sofas.

Skirtboard

Gaps left for floor extension (near walls) shall be covered with decorative skirtboards. Skirtboards shall be attached to the walls (not to the floor).