



HOW TO INSTALL THREE-LAYER HARDWOOD FLOORBOARDS WITH 5Gc LOCKING SYSTEM GLUEDOWN / STAPLE-DOWN INSTALLATION FLOATING /

1. GENERAL GUIDANCE - REFORE STARTING

Floor storage

Floor storage The packs containing floorboards must be handled carefully during transport and unloading to avoid any mechanical damage. Floorboards in the original packaging should be kept in a dry place, in a horizontal position, on pallets or wooden beams to provide free space of at least 75 mm (3') between the boxes and the subfloor. Before the floor is delivered to a building provid-ed with doors and windows, all "we'' works must be completed, e.g. plastering, construction of partition walls, screed application, skimming, painting, etc. These works must be finished and any wet materials must be at the same humidity level as during the normal use of the area. If there are any cellers below the floor installion area in the building, they must be dry and well ventilated. Multi-layer hardwood flooring should be kept in the original packaging in the room where it is to be laid for at least 48 hours to ensure floor is acclimated. Additional air-conditioning systems installed in the house or dwelling should be activated at least 14 days before, during and after the installation of the floor. The relative humidity in the area where the hardwood flooring is stored and installed should be kept between 45/4 and 60%. The air tem-perature should be between +64.4F and -75.2°F (+18°C to -24°C). The moisture content of the wooden substrate (wood-based panels) should not exceed 9%. The moisture content of the substrate bould not exceed 2% and that of the antyloritie substrate - 0.5%. The moisture content of the substrate should be measured using the carbide method. The measurement results should be recorded.

measurement results should be recorded. **Responsibility** Before fitting the multi-kyer hardwood floor, the developer/fitter or technician must ensure that the installation site meets all the applicable standards. Always comply with the recom-mendations of the building industry and local regulations. The manufacturer accepts no liabi-ity for improver working conditions on the installation site. Before installation the developer/ fitter or technician should inspect the multi-layer hardwood floorboards and confirm that they comply with the purchase order. The floorboards should be inspected for the grade, quality, finish, gloss, color, mechanical damage and class of the top layer (all the information is pru-vided on the label and/or in the purchase order). The developer/fitter or technician is fully responsible for the final quality control of the multi-layer floorboards. Before installation, all the multi-layer floorboards should be checked. If in doubt, the developer/fitter or technician should not use any of the boards considered bo the unstallation the installation he/she should contact the seller immediately. When ordering the floor, a waste factor of up to 7% should be taken into account. The manufacturer accepts no responsibility if the floor is laid outdoors, in bathrooms, in areas exposed to relative humidity levels other than from 45% to 60%, in arease exposed to direct contact with water or othe fluidus, in areas where the temperature is other than from +64.4°F to +75.2°F (+18°C th +24°C). The final inspection by the end user should be carried out while in the standing position. **Immortant for fitters**

Important for fitters Sawing, sanding and processing of hardwood products and wood-based materials can produce wood dust. Airborne wood dust can cause irritation of the respiratory system, eyes and skin. The International Agency for Research on Cancer (IARC) has classified wood dust as a human carcinogen. eyes and . wood dust a

Precautions
If electric saws are used for cutting boards or wood-based materials, they must be provided with dust extractors. The fitter should always use an appropriate NIOSH-certified
dust mask and asfety googles during cutting operations. Always protect your eyes and
skin against contact with wood dust. In case of irritation from wood dust, rinse the eyes
or skin with clean water for at least 15 minutes.
If you have any questions about the installation and maintenance of the floor or you would
like to receive a Safety Data Sheet, piease contact the distributor or retailer where you
purchased the material, or visito ur website.
IMPORTANT HEALTH INFORMATION ALL OF OUR NORTH AMERICAN PRODUCTS
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CONSULT YOUR DOCTOR OR A LOCAL HEALTH

WARNING: IF THERE ARE ELASTIC FLOOR COVERINGS AND ASPHALT-BASED ADHESIVES IN THE HARDWOOD FLOOR INSTALLATION AREA, AVOID GRINDING, DRY SWEEPING, DRY SCRAP-ING, DRILLING, SAWING, SHOT-BLASTING AND USING MECHANICAL METHODS FOR REMOVING THE EXISTING FLOOR COVERINGS, FLOOR SUBSTRATES, ASPHALT-BASED ADHESIVES OR ANY OTHER ADHESIVES! The existing materials may contain asbestos fibers and/or crystalline silica. Avoid the formation of dust inhalation of dust creates the risk of cancer and respiratory problems. If a product is not known to be free of asbestos, it should be presumed to contain asbestos. Somking by people exposed to contact with asbestos fibers significantly increases the risk of serious injuries. Under regulations of law it may be required to test materials for the asbestos content as well as to follow specific procedures for their removal and disposal. For guidance on the removal of resilient floor Covering, see the current edition of the guidebook published by the Resilient Floor Covering institute (RFC): Recommended Work Practices for Removal of Resilient Floor Covering institute (RFC): Recommended Work Practices for Removal of Resilient Floor Covering is or contact your distributor or retailer where you purchased the material. Hardwood floorboards delivered in this pack, D0 NOT CONTAIN ABSESTOS.

2. STANDARDS REQUIREMENTS FOR SUBSTRATE

The purpose of the recommendations for the quality of the substrate is to ensure correct installation of multi-layer floorboards. They are in no way intended to replace federal, state or local building regulations.

Multi-la er floor can be laid on substrates which meet the following stand

Multi-rayin mou can be an extra sector of the substrate should not exceed 1/8" (3 mm) over 6.56 ft (2 m) when measured with a level. Any recesses or uneven areas should be filled with special materials designed for this purpose. The maximum horizontal offset over the entire floor area must not exceed 3/16" (5 mm).

Dry – concrete substrates should be cured for at least 60 days. The moisture content of the concrete substrate should be tested using the calcium carbide test (carbide method) and the result must not exceed 2 % for concrete substrates and 0.5% for anhydrite substrates. The moisture content of the wooden substrate (wood-based panels) should not exceed are obstrate (wood-based panels) should not exceed and the substrate (wood-based panels) should not exceed and the substra

The measurement results should be recorded

Clean – free of dirt, cement, putty, plaster, paint, oil, glue, plaster or other residues. Floors are not suitable for installation on substrates cleaned by chemical methods.

WOODEN SUBSTRATE – REQUIREMENTS

WOODEN SUBSTRATE – REQUIREMENTS Multi-layer boards can be fixed to the wooden substrate such as solid wood boards, OSBs or other boards specified below. This substrate should be permanently fixed to the subfloor (e.g. wooden beams) using staples or nails. Any "squeaky" areas should be fixed by nailing or screwing them down. The spacing between the fasteners fixing the wooden substrate to the beams should be about 6" (15 cm). Any delaminated, swollen and damp panels should be replaced with new ones. The spacing between the beams under wood-hosed panels should be in accordance with the relevant building regulations. The moisture content of the wooden substrate should not exceed 9% when measured The moisture content of the wooden substrate should not exceed 9% when measured with needle metric As a manufacturer of multi-layer hardwood florors, we are not able to assess every underlay on which the floor is to be installed. The responsibility for choosing the spacing and distances, and assessing the substrate lies with the developer, engineer, architect or consumer, who are in a better position to evaluate the expected result based on test results for the floor installation area.

Before installation see "Subfloor Heat-up Specifications" available on the www.hardwood-installation.eu.

After performing the screed heat-up procedure and selecting the appropriate underlay, start laying multi-layer floorboards using the procedure for installation without underfloor heating. When fitting a floating floor, Manufacturer recommends using insulation foil which should be laid with an overlap of about 7.8" (20 cm) and connected with sealing the floating attractions of the sealing the sea

tape. The three -layer hardv od floorboards can be laid over water or ele ting system

heating system. Installation of floor over electric heating Electric floor heating can be installed using different solutions: Heating cables laid inside special panels made of foamed polystyrene or extruded poly-styrene foam with ready-made grooves for laying heating cables. Such panels have a very high Hemral resistance coefficient, which means that they can used instead of thermal insulation. Boards to be installed under hardwood subfloor do not require any subsequent screed application. If the developer, fitter or technician decides to lay screed over heating cables, multi-layer floor choe to ways: as a floating floor or glued floor. The installation procedure is the same as for installation over water underfloor heating. Heating mats laid immediately under multi-layer floorboards. These are ready-to-use units which are fitted immediately under multi-layer floorboards. Such heating mats (foi) are installed over thermal insulation of thickness from 1/8^o (3 mm) to 1/4^o (6 mm), e.g. XPS boards, wood fiber boards. The heating mats (foil) are covered with 0.2 mm thick PVC foil to protect them against damage. **Attention!** Read the installation guide carefully before fitting the electric heating system and have it installed over the speciesional company.

es for fitters and users of hardwood floors over electric or water underfloor

- a**ting** To er To ensure the optimum floor covering for installation over underfloor heating, use readymade three-layer hardwood boards connected by a glue-free click locking
- To ensure the optimum floor covering for installation over underfloor heating, use readymade three-layer hardwood boards connected by a glue-free click locking system. If you opt for a glued floor, make sure that the glue you have chosen to use will retain its properties and flexibility throughout many years, even when exposed to significant temperature differences. Installation of floorboards over underfloor heating can only be started after the heat-ing subtorh heat-up report has been prepared and signed by a properly qualified in-stallation team. If the heating system is turned off during the screed heat-up process, the heating system should be set to 70°F (21° (5) for several days before starting the installation team. If the heating system is turned off during the screed heat-up process, should also be performed in the summer. The screed heat-up process to a screed with a screed has a screed heat the floor. The screed heat-up process to a screed with a screed heat-up process to a screed heat screed heat screed by 1-2 degrees per day. The heating system is on or off. The mositure content of the screed must not excceed : 1.5% for cament screed when measured using the carbide method (CM). To provent uneven expansion/contraction of wood, the entire floor area should be provided with heating. This will alias help to ensure the best possible comfort of use (Without any 'cold spots' over the floor surface). Hardwood floor installed over underfloor heating must not be covered with target. All turniture placed over underfloor heating, such as solas, should have legs at least 4° (10 cm) high. When fitting a floating f

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3. GLUE-DOWN INSTALLATION

ded tools and materials for floor installation:

- ecommended tools and materials for floor installation: Safety goggles NIOSH-certified dust mask Wood/concrete moisture meter Appropriate gule for fitting multi-layer boards Primer system for glue if required by the glue manufacturer Roller for primer application Putty knife for removing residues from the substrate Appropriate steel trowel recommended by the glue manufacturer Steel hammer (800 g to 1000 g) Vacuum cleaner or sweeping brush Expansion wedges Tapping block Tape measure Pencil

- Tape measure Pencil Mitre saw or table saw Trimmer Trowel for glue application Glue remover Cleaning cloths Knee pads Protective gloves Floor shunting tool Carpenter's square

General requirements: Before starting the floor installation, the central heating and air-conditioning systems should remain switched on for 14 days. The boards in the original packaging should be acclimated in the room where they will be laid for at least 48 hours. The floor should be laid at room temperature from +64.4°F to +75.2°F (+18°C to +24°C) and relative humility between 45% and 60%. Do not install the floor if the moisture content of the underlay and the relative humidity exceed the acceptable levels! Aways follow the instructions of the glue manufacturer during the installation. The glue coverage rate, the correct primer and trowel should be indicated by the glue manu-facturer.

Tacturer: Choose the direction of boards in the installation area. Work out of several boxes at a time to ensure an even color and shade distribution over the whole floor. Do not use boards which show visible signs of damage! Return them to your retailer for replacement.

Do not use boards which show visible signs of damage! Return them to your retauer for replacement! Complaints concerning boards with visible damage which have been installed will not be accepted! When working in rooms being renovated, remove all existing skirting boards or plinths. Make an off-cut in the door frames. Neurone the existing thresholds and strips from the frames. You can replace these elements after the floor has been installed. When making an off-cut in the door frame, the fitter should make sure that there is the recommended expansion gap. The floor must have a clearance of 1/16 inch under the door frame to allow free lifting without vertical restrictions. The fitter should ensure that the board under the door frame can move freely. Do not directly use rubber harmmers on the installed floorboards to avoid non-removable marks on the surface of the boards! Avoid walking on recently installed boards for at least 12 hours. Avoid walking on recently installed boards for at least 24 hours.

Floor installation procedure: Before installation use putty knife to remove any residues from the substrate. Vacuum or sweep the surface.



Cut off the tongue in the boards to be installed in the first ro

Hardwood plywood should be at least CDX class (display 1) and meet the US Voluntary Product Standard PS1 or Canadian CANVCSA 0325-0-92 performance standards. The optimum thickness is 3/4" (19 mm) for the substrate [at least 5/8" (16 mm)] and 7/16" (11 mm) for the floor underlay.

OSBs should meet the US Voluntary Product Standard PS2 or Canadian CAN/CSA 0325-0-92 performance standard for structural coatings. Check the panel code on the underside. When used as the floor underlay, the panels should be tongue-and-groove boards laid with the impregnated side facing down. The minimum thickness is 23/32" (18 mm) for the substrate and 7/16" (11 mm) for the underlay.

Waferboards and chipboards should meet the US Voluntary Product Stand Canadian CAN/CSA 0325-0-92 performance standards. The minimum thickne (19 mm) for the substrate and 7/16" (11 mm) for the underlay.

 $\label{eq:chipboards} \mbox{ should have a density of at least 40 pounds/cubic feet. (641 kg/m^3), approved underlay class, and 3/4" (19 mm) thickness (floating floors only).$

Solid wood underlay should be fitted using glue-down or staple-dow Thickness min. $34^{\rm sc}$ (19 mm) and width max. $6^{\rm sc}$ (15 cm) at $45^{\rm sc}$ with beams. Coniferous wood from density group 1 (pine, larch, green Dougle common dried wood, all board ends on beams. installation down .. ith respect to viqlas, etc.) No . 2

A 7/16" (11mm) floor panel of the approved type can be added for the glue-do stallation procedure.

CONCRETE SUBSTRATE – REQUIREMENTS

The glue-down procedure is not recommended for installation of multi-layer floor lightweight concrete substrate. To check if the substrate is made of lightweight concret scratch the substrate surface with steel stylus (Fig. 1). If the surface is easy to scratch ar the edges of the line crumble, the concrete does not have sufficient strength for gluir multi-layer boards. If this case, you should lay a floating floor. er floor o



The glue-down procedure should only be used with concrete grades 3,000 psi or higt er. Gluedown installation on lightweight concrete (less than 3,000 psi) is not permitted. Always perform the glue bonding test before starting glue-down installation. The moisture content of the substrate should not exceed 2% when measured using the carbide method. The measurement should performed out in areas which are most ex posed to increased humidity – under stairs, in corners or areas with no direct exposur to sunlicht. to sunlight

Installation over water underfloor heating When fitting multi-layer floorboards over water underfloor heating, the screed heat-up procedure should be performed. The procedure involves heating up the floorboards at regular intervals to eliminate any residual moisture from the screed and to avoid the risk of hazardous stress in the underfay. For the screed heat-up procedure, see www.hardwood-installation.eu. Following the underfay heat-up proces, you can star laying the floor. Two installation procedures can be used for fitting floor over underfloor heating: floating and glue-down installation.

Glue-down installation over water underfloor heating When fitting a glued floor, make sure that the glue retains its properties and flexibilit even when exposed to significant temperature differences. Glue is not produced by th flooring manufacturer, and therefore you should use products designed for floor instal lation. There are special pictograms and information on the packaging to indicate if th specific glue can be used for floor installation over underfloor heating. Manufacturer ommends hiring a professional floor company for glue-down floor installation. Attention rties and flexibility Attention

cking the underlay using a 2-m level, the offset of the under ust not exceed 1/8" (3 mm) over 6.56 ft (2 m) at any point or nt on th

Floating installation over water underfloor heating When fitting a floating floor, the heat transfer coefficient of the underlay should be as low as possible. Manufacturer recommends using an underlay with heat transfer coefficier of R < 0.05 m² K/W, e.g. regular corrugated cardboard of thickness 1/8" (3 mm), or othe professional underlay materials.



According to the manufacturer's instructions, apply the glue using a notched trowel rec-ommended by the glue manufacturer. Glue should be distributed over a maximum of two rows of boards. The interval between applying the glue and laying the boards should not exceed 40 minutes. When fitting boards using expansion wedges, use expansion gaps at least 7/16' (11 nm) wide. An expansion gap should be made along the perimeter of the room and around any other obstructions. Start the installation at the left side of the wall and continue towards the right side.



Fit in another board next to the first board. The boards should touch each other along the shorter edge. Begin the second row, starting with the off-cut from the first row. The recommended minimum length for the board starting the next floor row is 12" (300 mm). The recommended offset of connections between the boards along the shorter edge is 20" (500 mm). Continue laying the floor across the room. Lay the boards at an angle about 30° along the longer edge.



During the installation use a tapping block and a hammer to fit in the boards together along the longer edge. Take care not to spread glue to the tapping block and the top layers of the boards. If the topping bar and boards are dirty, remove the glue residues using the agent recommended by the glue manufacturer. Glue hardened on the floor surface can cause damage to the walk-on floor layer.



Fit the last board against the wall by tapping it with floor shunting tool. Remember to leave an expansion gap of at least 7/16" (11mm).



IVE ALL EXPANSION WEDGES BEFORE STARTING THE INSTALLATION OF SKIRTING BOARDS. If the floor is to be covered/secured, use breathable material such as regular or corrugated cardboard. Do not cover the floor with plastic materials, e.g. foil. For the floor care and maintenance guide, please visit www.hardwood-installation.eu After the skirting boards have been installed, the floor is ready for use.



4. FLOATING FLOOR INSTALLATION

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- acommence tools and materials for hoor inst Safety goggles NIOSH-certified dust mask Wood/concrete moisture meter Putty knife for removing residues from the subst Steel hammer 1.5ibs to 2.5ibs (800 g to 1000 g) Vacuum cleaner or sweeping brush Expansion wedges Tapping block Tape measure Pencil ubstrate

- Pencil
 Mitre saw or table saw
 Trimmer
 Knee pads
 Protective gloves
 Floor shunting tool
 Carpenter's square

General requirements: Before starting the floor installation, the central heating and air-conditioning systems should remain switched on for 14 days. The boards in the original packaging should be acclimated in the room where they will be laid for at least 48 hours. The floor should be laid at come temperature from +64.4°F to +75.2°F (+18°C to +24°C) and relative humidity between 45% and 60%. Do not install the floor if the humidity of the underlay and the air exceeds the acceptable levels! Choose the direction of boards in the installation area. The maximum dimensions of the floor without intermediate expansion gaps are 66 ft (20 m) x 26 ft (8 m), (66 ft (20 m) along the longer edge of the board). Writh out of several boxes at a time to ensure an even color and shade distribution over the whole floor. Do not uses bloords which show visible signs of damage! Return them to your retailer for replacement! Complaints concerning boards with visible damage which have been installed will not be accepted!

Complaints concerning boards with visible damage which have been installed will not be accepted When working in rooms being renovated, remove all existing skirting boards or plinths. Make an off-cut in the door frames. Remove the existing thresholds and strips from the frames. You can replace these elements after the floor has been installed. When making an off-cut in the door frame, the fitter should make sure that there is the recommended expansion gap. The floor must have a clearance of 1/16° under the door frame to allow free lifting without vertical restrictions. The fitter should ensure that the board under the door strame can move freely. Do not directly use rubber hammers on the installed floorboards to avoid non-removable marks on the surface of the boards!

Floor installation procedure

Before installation use a putty knife to remove any residues from the substrate. Vacuum or sweep the surface.



Cut off the tongue in the boards to be installed in the first row



Spread the underlay under the floating floor. Read the underlay installation guide and follow the instructions provided there.



boards out of several packs and choose boards with matching is a natural product and every board is different. Before installation take out I color. Remember that wood



When fitting floorboards using expansion wedges, use an expansion gap of minimum wir 7/16" (11mm). An expansion gap should be made along the perimeter of the room and arou any other obstructions. Start the installation at the left side of the wall and continue towar the right side.



Fit in another board next to the first board. The boards should touch each other along the shorter edge. Begin the second row, starting with the off-cut from the first row. The recommended minimum length for the board starting the next floor row is 12° (300 nm). The recommended offset between the board joints along the shorter edge is 20° (500 nm). Continue laying the floor across the room. Continue laying the floor across the room. Lay the boards at an angle about 30° along the longer edge.



During the installation use a tapping block and a hammer to fit in the boards togeth along the longer edge. Adjust the tapping block along the entire longer edge of the boa and tap it with hammer.



Floor installation procedure: Before installation use a putty knife to remove any residues from the substrate. Vacuum or sweep the surface. Cut off the tongue in the boards to be installed in the first row.

Before installation take out boards out of several packs and choose boards with matching color. Remember that wood is a natural product and every board is different.



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Continue laying the floor across the room. Lay the boards at an angle about 45° along the longer edge.



During the installation use a tapping block and a hammer to fit in the boards together along the longer edge. Adjust the tapping block along the entire longer edge of the board and tap it with hammer.



Fit the last board against the wall by tapping it with floor shunting tool. Remember to leave an expansion gap of at least 7/16" (11mm).



REMOVE ALL EXPANSION WEDGES BEFORE STARTING THE INSTALLATION OF SKIRTING BOARDS. If the floor is to be covered/secured, use breathable material such as regular or corrugated cardboard. Do not cover the floor vitin plastic materials, e.g. full. For the product warranty and the floor care and maintenance guide, see www.hardwood-instalproduce lation.eu

After the skirting boards have been installed, the floor is ready for use



6. HOW TO USE HARDWOOD FLOOR

The floor is factory finished and ready for use immediately after installation. However, remember that it is a 100% natural product made from wood. Water and sand are the biggest enemies of hardwood floors. The recommendations in this section are in accor-dance with the requirements for compliance with the warranty conditions and they will help to extend the service life of the hardwood floor.

- A compensate with the warranty conditions and they will help to extend the service life of the hardwood floor.
 Requirements for use of hardwood floorbards are made of real wood. The floors provide superior performance and an excellent aesthetic finish.
 The manufacturer's warranty will be granted if the floor is laid and used in accordance with the manufacturer's warranty will be granted if the floor will be used should be kept between 45% and 60%.
 The manufacturer's the area where the hardwood floor will be used should be kept between 45% and 60%.
 The maximum temperature at the surface of the boards installed over underfloor heating should not exceed 84°F (29°C). It is forbidden to put carepts, runners, or furniture with legs of height less than 4° (10 cm) on floors laid over underfloor heating.
 Floor maintenance should be carried out using only the floor care products designed for this purpose. Instructions on how to take care of the floor care products.
 Never use vacuum cleaners with rotary brush which could cause damage to the floor. Caution: Never use vacuum cleaners with rotary brush which could cause damage to the floor.
 Vacuum or sweep the floor to remove any particles which could cause damage to the floor.
 Do not use high-pressure jet-washers or steam to clean the floor.
 Walking in unsuitable footware can damage the floor, causing e, black marks or indentations on the surface of the boards.



Fit the last board against the wall by tapping it with floor shunting tool. Remember to leave an expansion gap of at least 7/16" (11mm).



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5. STAPLE-DOWN INSTALLATION

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- Expansion wedges Tapping block Tape measure

- Pencil Mitre saw or table saw
- Trimmer Knee pads
- Protective glo
- Floor shunting tool Carpenter's square

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- to the floor. Do not use high-pressure jet-washers or steam to clean the floor. Walking in unsuitable footwear can damage the floor, causing e.g. black marks or indentations on the surface of the boards. Tim claws of your pets to prevent floor damage. Do not move or roll any heavy furniture or equipment over the floor. Using floor care products other than those recommended by the Manufacturer may cause damage to the lacquer layer, color and gloss changes, spots and stains, and changes in the floor traction properties. The daily care and maintenance procedure should be limited to normal floor vacu-uming or sweeping.

- The dany date drift maintenance proceeder broad of initiate to rearing the averaging.
 Do not soak the pre-finished wood floor or wash it with wet mop. Apply the floor cleaner to the mop and not to the floor.
 Water may cause damage to hardwood floor. Never use oil- or wax-base soap or liquid detergents. Clean the floor of woopping the floor or wax-base data backwards. When the mop is dirty, replace it with a clean one. Cleaning the floor with dirty mop may cause straake

- The mop is airry, repace it with a clean one. Cleaning the noor with airry mop may cause streaks. The frequency of floor care depends on the amount of traffic. Any sand or stones tracked onto the floor should be removed as soon as possible. Sand will leave scratches in the lacquer layer, small indentations and marks in the top layer of wood. Install barrier matting at, the entrance points (entrance doors, terrace doors, etc.) of your new hardwood flooring to effectively prevent the spread of unwanted sand, grit, water, dirt and soil which can tracked on shoes. Use dry and soil trushes or a vacuum cleaner with soft brush to remove dust. You can also use a slightly damp cloth with or without the recommended agent for floor care and maintenance. Under no circumstances should any wt traces remain on the floor after cleaning.
- Carl also Use a single damp damp damp dam in the interval the recommended agent for how care and maintenance. Under no circumstances should any wit traces remain on the floor after cleaning. All furniture and other equipment which remain in contact with the floor should be provided with protective felt pads which should be replaced at regular intervals. Armchairs and other feutipue lems provided with wheels must be used on protec-tive plastic mats, floor coverings or rugs to protect hardwood floor from mechanical damage. Check and immediately remove any sand or other particles which could be tracked under the protective mat. Failure to remove such residues can cause scratch-es to the lacquer layer under the protective mat. Castors in office chairs or castor firmiture should be replaced with castors designed for hardwood floors (in accordance with DNI-EN 12529, it is recommended using castors with Shore hardness equal 40-50 and surface pressure 3-5 N/mm²). Under no circumstances should hardwood floor be covered with PE foil or other mois-ture and air-tight materials. Multi-layer hardwood floor exposed to sunlight (UV light) will change its original color. The floor can be refinished by sanding and re-lacquering or re-oiling. The manufac-turer allows floor refinishing lacquers or designed for hardwood floors, provided that they are applied in accordance with the relevant directions for use. The number of floor renovations consisting in "removing" the surface layer of wood depends on the depth of mechanical damage. Before starting any mechanical refinish procedure (sanding or grinding), analyze the condition of the foor and determine if the floor can be refinished by mechanical methods.

- methods. Any failure to comply with the above recommendations and instructions will void the material and workmanship warranty. Only multi-layer boards fitted using the floating, staple or glue-down installation procedure has been approved by the manufacturer for installation over underfloor beating.
- procedure has been approved by the manufacturer for installation over underfloor heating. Before fitting multi-layer boards over underfloor heating, the user/developer, fitter or technician should perform the subfloor heat-up procedure in accordance with the "Subfloor Heat-up Specifications" available on the website www.hardwood-instal-lation.eu. A completed and signed "Subfloor Heat-up Specifications" is attached as an annex to the Warranty Certificate. If the heat-up report is absent, it will void the warranty for the floorboards laid over underfloor heating. When installing a floating floor, the underlay materials recommended by the distributor or retailer should be used. The use of other materials may result in improper instal-lation of the entire subfloor. If the floor needs to be refinished by mechanical methods, it should be done by a professional flooring company. For information on the installation of multi-layer floorboards over underfloor heating, see the installation guide.

- see the installation guide. IMPORTANT: The user/developer, fitter or technician is required to make sure that the cleaning staff is made aware of the above "Instructions on how to use and take care of lacquered or oiled multi-layer floors".

NOTE: Floorboards are produced exclusively from genuine wood. Because of the natural variation in the raw material, the individual floorboards and their surface may differ in color, shade, the intensity of knots and grain pattern. Sample boards, samples, photo-graphs and merchandising brochures may not fully correspond to the actual appearance of the products. The color of the product delivered may be different from the material available at the point of sale.



