

CHARLECOTES

Original Oak Flooring

Unit 5 The Bluestone Centre

Sunrise Way

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AMESBURY

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BESPOKE FLOORING TECHNICAL DATA SHEET

- *Manufactured in Great Britain*
- *Oak Origin: United Kingdom, Northern France, Southern Germany.*
- *Fir Origin: United Kingdom, Northern France, Southern Germany.*
- *Exotic Species: Various.*
- *Character Grade: Based on grading rules Q-B3x. Sound intergrown and open knots: No limit on number and no maximum diameter is permitted. Small pin and small knots no defect. Sound sapwood allowed to edges not exceeding 25% of board width. Enclosed sapwood, through bark pocket, heart, tanning stains, surface splits (filled) maximum 100mm, end splits (filled) maximum 50mm acceptable. All cuts permitted. Not permitted: Rot.*
- *Standard Grade: Based on grading rules Q-B2x. Sound intergrown knots: One per 1000mm to a maximum diameter of 40mm is permitted (Averaged). Open knots to a maximum diameter of 15mm. Small pin knots no defect. Sound sapwood allowed to edges not exceeding 15% of board width. All cuts permitted. Tanning stains, surface splits (filled) maximum 50mm, end splits to a maximum 30mm, heart discolouration. Not permitted: Enclosed sapwood, through bark pocket, heart, rot.*
- *Prime Grade: Based on grading rules Q-B1x. Sound intergrown knots: One per 1500mm to a maximum diameter of 30mm is permitted (Averaged). Small pin knots no defect. Sound sapwood allowed to edges not exceeding 8% of board width. All cuts permitted. Minimal tanning stains. Not permitted: Enclosed sapwood, through bark pocket, heart, rot, surface and end splits.*
- *Prime Grade Plus: Based on grading rules Q-B1x. Sound intergrown knots: One per 1500mm to a maximum diameter of 20mm is permitted (Averaged). Small pin knots no defect. Sound sapwood allowed to edges not exceeding 5% of board width. All cuts permitted. Not permitted: Enclosed sapwood, through bark pocket, heart, rot, surface and end splits.*
- *Prime Grade Triple Plus: Based on grading rules Q-Ba. Sound intergrown knots: One per 3000mm to a maximum diameter of 10mm is permitted (Averaged). Small pin knots (3mm) no defect. All cuts permitted. Not permitted: Enclosed sapwood, sound sapwood to edges, through bark pocket, heart, rot, surface and end splits.*
- *Irregular Grade: As a rule, Rustic Grade is used, due to its unique drying process this produces an embossed surface. Knots and shakes can be exaggerated and are professionally reworked. High number of heart wood boards.*
- *Knots are measured by their smallest diameter.*
- *Cats paws are considered as one knot.*
- *Shakes & surface cracks are judged by the length.*
- *Bark pockets are judged by their length and width.*
- *Colouration to be in tolerance of a natural material.*

- *Up to 5% unspecified flaws acceptable.*
- *Suitability: Commercial/Residential.*

Specification:

- *Tongue and grooved on four sides.*
- *Tolerance of manufacturing in width/length +/- 1.0mm, thickness +/- 0.5mm.*
- *(A)Certified Birchwood throughout Plywood Base.*
- *Micro bevel or round bevel of 0.5mm, 1.0mm or 2.0mm.*
- *Adhesive: The moisture curing polyurethane used as an adhesive on our multi-layer elements contains no gaseous substances, and is free from solvents, Formaldehyde, Polychlorinated Biphenyl (PCB), Pentachlorophenol (PCP), Lindane, asbestos or other dangerous substances which evaporate over a long time.*
- *Moisture content when leaving mill approximately 9%.*
- *Used European species labelled FSC or PEFC or are from a sustainable forestry.*
- *No pack size. Quantity based on m2 amount required plus waste.*
- *Lengths specification to allow 20% shorter lengths than specified.*
- *Thickness and Top layer – As per quotation.*
- *Manufacturing is in accordance with current EN regulations.*
- ***Fire category EN 13501 CFL-Si.***
- *Finish – Oil, Various manufacturers– Lacquered finishes can be requested. Charlecotes Original Oak Flooring acknowledge that technical and safety information is required (Technical data and COSHH sheets can be provided), however, to prevent design infringement we reserve our right to withhold brand names.*

Maintenance/Humidity:

- *Can be laid over under floor heating (recommended guidelines required).*
- ***K-Value – 0.17.*** *This is a measure thermal conductivity.*
- ***R-Value – 0.12.*** *This is a measure thermal resistance.*
- *Required maintenance regime (as with all hardwood floors). Regular use of appropriate cleaning products for the finish and may also need to re-oil when required.*
- *Dimensional stable product. Wood is hygroscopic and is continuously active in balancing out the humidity levels within its environment both in the air and the ground. Important to maintain a constant humidity level throughout the whole year between 40- 60% relative humidity (further information on request).*

Installation Guide & Method Statement:

▪ Method Statement:

Arriving on site and prior to commencing work.

- *Assessing areas to be installed, evaluating any hazards or difficulties with regard to both Charlecotes Original Oak Flooring's work and any hazards by other trades.*
 - *Liaising with and reporting to the site Foreman or designated person in charge.*
 - *Site foreman and other fitters to obtain passes, if required from main contractor and / or designated person in charge.*
- Unloading (Risk Assessment available upon request).*
- *Unload all goods and equipment to a safe area using correct handling methods.*
 - *Access for transportation of all goods and equipment to be arranged with main contractor and / or designated person in charge before commencement of unloading.*
 - *Specific care to be taken when transporting materials through public areas.*

Preparation.

- *It is the responsibility of the Site Foreman to ensure the designated area is clear of other trades' equipment, material and debris so that the area to be installed can be swept prior to the application of either a primer, smoothing compound or plywood overlay if required.*
 - *Preparatory should be carried out in accordance with the Flooring Industry Codes of Practice BS: 8203: 1987, Section 3, Sub Paragraph 13.1 to 13.3 inclusive and Section 2, Sub Paragraph 6.4.*
- Installation (See Risk Assessment) COSHH Assessments to be observed when using any chemical*
- *Site dimensions will be checked against drawings issued. The process of Plank product installation is as follows: -*
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- *After completing all preparation as previously described above, the floor is checked dimensionally using multiples of the size of the designated product making adjustments in order to provide as balanced a floor as possible when considering the size of the plank cuts at doors and perimeters.*
 - *Engineered/solid wood planks: A datum line is plotted and fixed, a chalk line is placed at floor level and used as the basis for the "headline" of the plank. Planks are laid parallel with the longest wall unless otherwise instructed, the final job being to cut in the edges by measuring with a tape measure the size of the cut needed ensuring that an appropriate expansion gap is left between the final plank and the perimeter of the area. Ensure good housekeeping at all times.*
- Product must be installed fully bonded to the subfloor using a recommended adhesive.*

Completion.

- *All off cuts, debris and unused materials are then cleared from site – ensuring good housekeeping at all times.*
- *The appointed floor fitter will provide after completion of each room a Satisfaction Sheet which is to be signed and dated by the site foreman or contractor to satisfy themselves with the floor fitting. Photographs will be taken and recorded of each room at this stage before protection is laid.*
- *Protection of the finished floor is then the responsibility of the main contractor unless this constitutes part of Charlecotes Original Oak Flooring's contract.*

▪ Installation Guide - Fully Bonded:

- *Set out the area by finding the centre of the room, work back to your preferred start point making sure equal cuts on all walls. Dry lay the first 2-3 rows against a suitable straight edge. The subfloor must be flat and dust-free.*
- *Spread the adhesive on the sub-floor, follow manufacturer's instructions – Charlecotes Original Oak Flooring's specifies Sikabond 54 flexible adhesive and Sikabond Mb Primer may be required. - Any deviation from the specified adhesive/primer must be approved in writing by Charlecotes Original Oak Flooring.*
- *The last strip should be tailor cut taking into account the width left and not forgetting the expansion gap.*
- *Apply the panel or strip to the adhesive, pressing it in to achieve good contact. Do not forget the expansion gap around the edge.*
- *Fit the last strip using a specialized pull tool.*
- *Position the wedges between the flooring strip and the wall to leave an expansion gap all-round the edge of the room (1,5mm per 1m of wood flooring, minimum 8 mm). Continue laying, regularly checking squaring and alignment.*
- *Follow steps 2 – 6 and install the initially dried laid boards up to the wall.*
- *Remove the wedges 24 hours after laying and prior to skirting-boards been fixed in to place.*

Please note the following points:

- ***Due to the variety of installations we can only generalise. We would always recommend that the floor layer satisfy themselves of the suitability of the conditions before laying the floor.***
- *Never adhere the tongue and groove.*
- *To keep the wood in excellent condition, it is imperative that the humidity level be controlled at all times, from delivery to laying the floor, and during the years that follow installation.*
- *The optimal humidity range for hardwood flooring is 45 – 65 %; Temperature should be maintained at about 18 °C.*

- *The wood should never be stored outdoors, on a cement floor, in a garage or in any damp conditions. Care should be taken to store the wood flat; boards should never be leant against a wall.*
- *In a new construction, all windows and doors etc. should be installed and all wet trades should be completed. Where a new concrete slab has been laid, the moisture content must not exceed 3% and the humidity level of the building must not exceed 60 %.*
- *It should also be remembered that the floor layer is the last person to inspect the flooring. Care should be taken to ensure that a balanced look is maintained when laying out the floor; any pieces that are suspect should not be laid. A waste factor should be taken into account.*

Under Floor Heating Cycles.

▪ Before Installation:

- *The new UFH system should be fully commissioned and have run a full cycle. If necessary Charlecotes Original Oak Flooring's will require a written report stating the system has been successfully tested.*
- *The temperature should then be reduced by 3°C - 4°C per day until UFH system is ticking over at its lowest level.*
- *The temperature should remain at this level for at least 72 hours prior to installation/timber delivery and for the duration of the installation.*

▪ After Installation:

- *The floor should be left for 2-3 days to acclimatise to its new surroundings and for the adhesive to fully cure. The heating should then be increased gradually by 1°C per day from the prevailing ambient temperature. It must not be turned on full straight away.*
- *The method of gradually increasing and decreasing the temperature should be followed in the day to day running of the UFH system.*
- *The maximum water or electricity temperature should not be greater than 50°C. The maximum temperature at the underside of the timber should never exceed 26°C.*
- *Room temperature should be maintained between 20°C and 23°C.*
- *It is vital that the timber flooring is not overheated. It is recommended that thermostatic probes are installed at various points over the floor area to ensure this does not happen. The effects of overheating can seriously damage the floor i.e., de- lamination, cracking and shrinkage.*
- *Relative atmospheric humidity should be maintained between 45-65% using a humidifier or climate control system if necessary.*
- *The heating system should be run in strict accordance with the manufacturer's instructions.*
- *Occupier should be aware of leaving solid furniture and/or heavy rugs in one position for any length of time. If the flooring is 'capped' in this way, the wood may be affected by excessive heat which cannot escape normally.*

Policy Statements

▪ Environment

Our Organisation recognises its responsibilities towards the environment and regards to compliance with specific legislative and regulatory requirements and the promotion of environmental protection, in general, as a material objective to Management and employees at all levels, and will take all practical steps to:

- *Operate in a Manner designed to minimize and, where possible, eliminate releases to air, land or water, focusing on safe technologies and operating practices.*
- *Integrate environmental factors into business decisions.*
- *Establish a reputation for effective environmental management.*
- *Seek suppliers and contractors who have high environmental performance standards.*
- *Control creation of waste and, wherever practicable, recycle materials. Waste will be disposed of in a safe and responsible manner.*
- *Undertake regular environmental audits of its activities.*

▪ Quality

Charlecotes Original Oak Flooring is committed to delivering the highest quality solutions and service to meet our clients' needs. We are dedicated to continually improving and maintaining our standards by investing in training and procedures that enable us to constantly improve performance, efficiency and knowledge.

Our continued aim to achieve the highest levels of satisfaction for our clients by a continuous process of quality improvement and a commitment to listen and respond to our clients' needs and expectations.