



Engineered Wood Flooring Product Technical Data Sheet

Product Code: TW E124T Engineered Wood Floor BRUSHED FUMED AND OILED OAK FLOOR WITH UV TOP COAT



Sustainability:

The Solid Wood Flooring products are not listed in CITES Appendices or on the IUCN Red List of Threatened Species.

This is an ethically sustainable sourced engineered timber wood floor designed for use as an interior floor finish. Engineered wood floors are more sustainable than solid and minimise the impact on valuable resources. The construction means that these wood floors are more stable than solid floors.

Product Details

Wood type:	<i>European Oak – Quercus SPP.</i>
Size:	<i>15mm thick x 189mm wide X 1860mm long.</i>
Finish:	<i>Brushed fumed and oiled with UV oil cured top coat</i>
Process :	<i>Brushed to give a textured mat surface.</i>
Length:	<i>Length 1860mm with one or two boards in the carton split to allow for staggered end joints.</i>
Profile:	<i>Tongue and grooved and micro-bevelled on all 4 sides.</i>
Pattern:	<i>Single width plank.</i>
Edge Profile:	<i>Micro Bevel all four sides.</i>
Top Layer:	<i>Solid Oak top layer 4mm thick.</i>
Construction:	<i>Engineered plywood back 7 layers cross ply.</i>
Adhesive:	<i>Dynea adhesive that meets European standard E0 used in the construction</i>
Grade:	<i>ABC Select Grade with some colour variation and knots. (see grading document for details)</i>
Packing:	<i>Cardboard cartons, shrink wrapped with 8 pieces maximum 2 layers split and 2.812m2.</i>
Weight:	<i>Each carton will weigh 23 to 24 kilo grams.</i>
Underfloor Heating:	<i>This floor is suitable for underfloor heating which must be operational before installation.</i>
Certification:	<i>FSC 100%.</i>

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Installation Methods:

- Fully Bonded:** RECOMMENDED using the SW 890 MS Polymer flexible adhesive.
Secret nailed: This will depend on the subfloor and site conditions.
Floated: Yes subject to the subfloor and environmental conditions.
Over Underfloor Heating: Yes compatible for UFH subject to following the correct installation requirements.

Aesthetics:

Wood flooring is a natural product, and will have inherent characteristics such as shade variation, different graining and knotting. It is the art (and responsibility) of the fitter to re-manufacture the wood flooring materials to create a finished floor.

Board Performance

- Fire Protection:** Reaction to fire – wood flooring performs to EN 13501-1 Dn s1
Thermal Conductivity: EN ISO 10456 and EN ISO 12664 Result 0.15 W/(mk)
Moisture Content: EN 13183 - 1 Requirement: 6% to 9% Average Results: <7%
Thermal Conductivity: EN ISO 10456 / EN ISO 12664 Result 0.15 W / (mk)
Release of Formaldehyde: Class E1 | EN 717 – 1:2006 Result 0.014 mg / m³
Requirement: Less than 3 ppm Result: 0.0053 ppm
Slip Resistance: Tested to BS 7967-2: 2002 (Pendulum Test in PTV values)
Oiled Finish results: DRY (66) **LOW RISK** WET (29) **MODERATE RISK**
There is no current requirement for slip resistance in residential developments.
Suitability of use: Structural board – suitable for use with under floor heating
Effects from moisture: Wood flooring will expand if it is exposed to conditions that increases its moisture content beyond 9%. Wood flooring will contract if the prevailing conditions reduce the product moisture content below 6%. Any exposure outside of these parameters will compromise the performance of the product.
Transmission of Sound: Wood flooring on its own will offer some assistance to reduce the passage of sound, but it is the build-up of the whole floor and the surroundings that contribute to impact and airborne sound. For accurate assessment's a qualified engineer should be employed to calculate how to achieve accurate results.
Thermal properties: Solid Wood Flooring boards offer the following values:
20mm thick boards with a 4mm or 6mm top layer will lose 0.10 K/Wm²
15mm boards with a 4mm or 6mm top layer will lose 0.08 K/Wm²

Samples:

Small samples will give a representative example of the colour of the finished floor. However, inherent characteristics of wood will make every individual piece of wood unique and one small sample **WILL NOT** be representative of the overall effect of a natural wood floor. Therefore, should it be necessary to gain a better understanding of how a larger area will look, purchasing cartons for a sample area should be considered, before making a final decision.

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Storage:

DO NOT take boards onto site until all **WET** trades have been completed and Relative Humidity is less than 65%. Stack cartons 50mm off the substrate supported along their full length, a minimum of 500mm from any wall, and allow the wood boards to retain a moisture content of between 6% and 9%. The moisture content of the substrate must be as detailed in BS8201:2011:

Cementitious Boards dry fit as fitted

Cement and sand screed less than 2%

Calcium Sulphate screed less than 0.5% **NOTE: Read our advice document on these in our Technical Library**

Timber battens or joists less than 12%

Timber (chipboard, plywood) less than 12%

Fixing:

All wood Flooring products should be fitted in accordance with BS8201:2011 which is the 'Code of Practice for flooring of timber, timber products and wood based panel products'. Normal manufacturing tolerance of 5% have been set to allow for de-selection of material if deemed unsuitable for the installation. An additional 3% allowance should be made for cutting or wastage to the net square meters required.

If the boards are to be installed with under floor heating, please see the under-floor heating instructions on our website or ring The Solid Wood Flooring Company to discuss your specific Project.

All wood floors must be installed by competent professional who have the necessary skills and instruments to test the subfloors and local environment and ensure conditions are acceptable for wood flooring. You can refer to our Technical Library in the "Site Conditions" section for further details.

NBS:

NBS specifications can be written by request once we have full details of the subfloor build up.

Cleaning: Use the correct cleaning materials (**never use solvent cleaning solution**)

Correct cleaning and maintenance is important. Please see the cleaning and maintenance section on our website, or ask for a cleaning and maintenance leaflet where it will state the correct products to use.

Never clean wood flooring with water alone. Water contains compounds of calcium and magnesium, and a variety of other metals, and cleaning a wood floor with 'water only', will create a high risk of the surface coating failing. It is important that minimal amounts of hot water are mixed with proprietary cleaning materials containing the correct surfactants, (these help to reduce the surface tension of water) to allow the mixture to break down the mineral and residue deposits on the surface of the boards ready for removal. Oiled floors and lacquered floors will have their own individual cleaning regimes and advice should be sought from The Solid Wood Flooring Company before any cleaning is commenced. Cleaning any floor is based on a very simple process, **any residues that find their way onto the floor surface must be actively lifted and removed**. The correct cleaning material's also feed necessary oils or refreshers back into the surface finish to protect the board's and enhance their longevity. **N.B. Contamination from paints, whether oil or acrylic based will prove to be difficult to remove without damaging the wood surface. If any paint finds it's way onto the wood surface, then BEFORE it completely dries, gentle rubbing with a non-alcoholic wipe might soften and remove the paint - but once the paint has dried it will be almost impossible to remove.**

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BRE Green Guide:

A generic product of this type would correspond to Element Number 1321580001 of the BRE Green Guide 2008 ratings and achieve a rating of A+. The actual Kg/m² achieved will be dependent on the type of fitting chosen. The Solid Wood Flooring Company recommend that as a basis for achieving this result all fitting must conform to BS8201:2011

Health & Safety:

Engineered wood flooring is a natural product and on its own offers no recognisable health and safety risks. When re-manufacturing any wood product please follow HSE advice.

Company Approvals:

The Solid Wood Flooring Company operate a stringent sustainable environmental policy, details of which can be seen on the web site. We are certified by all the relevant organisations and our certificate numbers can be seen below. In addition to this we also adhere to the TTF responsible purchasing policy at all times. Below are our credentials:

Members of The Timber Trade Federation

Operate and are audited to the TTF Responsible Purchasing Policy

FSC - Solid Wood Flooring Certificate Code: RA-COC-005535

FSC - Solid Wood Flooring License Number: FSC-C007915

FSC - Solid Wood Flooring Chain of Custody Number: RA-COC-005535 HA

PEFC - Solid Wood Flooring Licence Number: PEFC/16-37-1814

PEFC - Solid Wood Flooring Certificate Number: CATG-FEFC-400-AT

WWF Global Forest & Trade Network UK – The Solid Wood Flooring Company achieve the highest - 3 Trees - accreditation

Warranty:

There is a 25-year residential warranty subject to our normal terms and conditions and documentary evidence of the site conditions prior to delivery and installation. This warranty is also subject to the underfloor heating system being fully commissioned and operational prior to any wood flooring delivery and acclimatisation on site for 14 days.

Never build onto a wood floor

Wood doesn't provide a good foundation to build onto. Therefore, it is important to design any cabinets and internal furniture with their own structural base and not to be sat on the wood flooring, so that should any damage occur, the floor finish can be easily repaired or removed. Wood flooring should ever be used as a foundation, even if it is fully bonded, and building cabinets or stud wall's onto any wood floor would be asking for serious trouble and remain the responsibility of the designer or specifier.

Installation and Warranty

All wood floors must be installed by competent and qualified installers who should have all the necessary equipment and testing apparatus to ensure the sub floor and site conditions are conducive for wood flooring. The Solid Wood Flooring Company will only warranty floors where our detailed full NBS specification has been adhered to.

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