



## Technical Data Sheet

Version 2.0

HW9832

# Amazon FR

## FlameLESS



### Specification

|                      |                                                   |
|----------------------|---------------------------------------------------|
| Pattern              | Plank                                             |
| Construction         | Multi-Layered Engineered                          |
| Top Layer Specie     | European Oak (Quercus robur)                      |
| Surface Process      | Sanded & Stained                                  |
| Finish               | UV Acrylic Lacquer                                |
| Connection System    | Tongue & Groove                                   |
| Edge Profile         | 2-Sided Bevelled Edge                             |
| Backing              | Birch Plywood (Betula spp.)                       |
| Wear Layer Thickness | 4mm                                               |
| Total Thickness      | 16mm                                              |
| Width                | 190mm                                             |
| Length               | 600-2400mm (May include up to 25% shorter boards) |
| Pack Size            | TBC                                               |
| Grade                | Character                                         |



### Key

\* Subject to compatible subfloor and correct installation (see Installation Guidelines) including sensors.

# Temperature of top-face must never be allowed to exceed 27°C. UFH protocol to control temperature conditions is recommended.

### Installation Methods

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| Fully Bonded            | Yes* (recommended)                              |
| Nailed/Screwed          | Yes*                                            |
| Floated on Underlay     | Yes*                                            |
| Over Underfloor Heating | Yes*# (Please ask for our technical guidelines) |

All Havwoods floor must be installed by a competent installer who will have the necessary skills and take individual site circumstances into account. Havwoods warranty will apply only to floors which have been installed by a competent flooring installer comparable to BS8201 in the UK or equivalent standards worldwide.

### Grading Criteria

|                  |                            |
|------------------|----------------------------|
| Sound Knots      | Up to 60mm Ø allowed       |
| Broken Knots     | Up to 50mm Ø allowed       |
| Filled Defects   | Allowed                    |
| Heat/Pith        | Pith rays allowed but rare |
| Sapwood          | Allowed                    |
| End Checks       | Allowed                    |
| Insect Damage    | Not allowed                |
| Filler           | Allowed                    |
| Colour Variation | Allowed                    |
| Small Cracks     | Allowed                    |
| Inner Bark       | Allowed                    |
| Modullary Rays   | Allowed                    |

N.B. The product grading criteria is inspected at each mill visually and should be taken as an approximation only. To allow for unavoidable variations in the material characteristics, 3% of materials may vary from the stated range.

### Technical Criteria

|                                 |                              |
|---------------------------------|------------------------------|
| Origin                          | Europe                       |
| Certification                   | FSC® Certified (FSC-C009500) |
| Janka Hardness Rating           | 1,120 lbf (4,980N)           |
| Formaldehyde Emissions          | E1 (EN 717-1)                |
| Pentachlorophenol Emissions     | < 5ppm (CEN/TR 14823)        |
| Reaction to Fire Classification | Bfl-s1 (EN 13501-1)          |
| Slip Testing                    | 64/54 PTV (EN 16165:2021)    |



# HAVWOODS

## For More Information Contact Our Experienced Team:

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Comprehensive maintenance instructions and materials are available from Havwoods for all floors.



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