



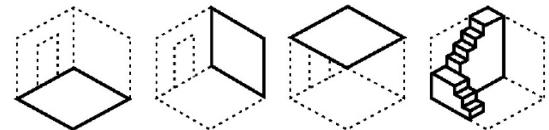
# Technical Data Sheet

Version 2.0

HW3931

Alba

Henley



## Specification

Pattern	Plank
Construction	3-layered engineered
Top Layer Specie	European oak (Quercus robur)
Surface Process	Heavy brushed
Finish	Hardwax oiled
Connection System	Tongue & groove
Edge Profile	4-sided bevelled edge
Backing	Spruce (Picea spp.)
Wear Layer Thickness	5mm
Total Thickness	20mm
Width	200mm
Length	2400-3000mm (May include up to 25% shorter boards)
Pack Size	2.88-3.60m <sup>2</sup>
Grade	Character

The mark of  
responsible forestry

### 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	Unlimited
Broken Knots	Up to 40mm Ø allowed
Filled Defects	Allowed
Heat/Pith	Allowed
Sapwood	up to 1/3 of the width, and 30% of the volume
End Checks	Allowed
Insect Damage	2% maximum
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 717-1:2006)
Pentachlorophenol Emissions	< 5ppm (CEN/TR 14823)
Reaction to Fire Classification	Cfl-s1 (EN 13501-1)



# 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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