



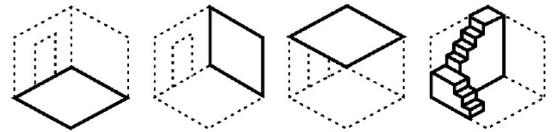
## Technical Data Sheet

Version 2.0

HW14216

# Alsace

## V Collection



### Specification

Pattern	Plank
Construction	3-layered engineered
Top Layer Specie	European oak ( <i>Quercus robur</i> )
Surface Process	Brushed & stained
Finish	Matt lacquered
Connection System	Tongue & groove
Edge Profile	4-sided bevelled edge
Backing	Pine ( <i>Pinus sylvestris</i> )
Wear Layer Thickness	3.2mm
Total Thickness	14mm
Width	207mm
Length	2200mm (May include up to 25% shorter boards)
Pack Size	2.77m <sup>2</sup>
Grade	Classic



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#### 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	No
Floated on Underlay	No
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

Healthy Knots	Up to 35mm Ø allowed
Unhealthy Knots	Up to 25mm Ø allowed
Unhealthy Holes	Up to 20mm Ø allowed
Bark Pockets	Allowed
Colour Scheme of surface	Varied
Arrangement of fibres	Varied
Silver grains	Allowed without limit
Sapwood	Allowed on the edge, up to 5% wide
Filling cracks (infilled)	Up to 5mm wide & 200mm long allowed
Biodegradation of surface	Not 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), FloorScore®
Janka Hardness Rating	1,120 lbf (4,980N)
Formaldehyde Emissions	E1 (EN 717-1)
Pentachlorophenol Emissions	< 5ppm (CEN/TR 14823)
Reaction to Fire Classification	Dfl-s1 (EN 13501-1)
Slip Testing	57/28 PTV (CEN/TS 15676)
Thermal Conductivity	λ 0.13 W/m K (EN 12664)



# 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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