



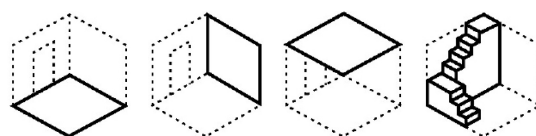
## Technical Data Sheet

Version 2.1

HW121221

# Pembroke

H Collection



### Specification

Pattern	Plank
Construction	Multi-layered engineered
Top Layer Specie	European oak (Quercus spp.)
Surface Process	Brushed
Finish	Matt lacquered
Connection System	Tongue & groove
Edge Profile	4-Sided bevelled edge
Backing	Eucalyptus plywood (Eucalyptus grandis)
Wear Layer Thickness	3mm
Total Thickness	14mm
Width	190mm
Length	1900mm (May include up to 25% shorter boards)
Pack Size	2.888m <sup>2</sup>
Grade	Rustic


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	No
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 Ø allowed
Broken Knots	Up to 50mm Ø allowed
Filled Defects	Allowed
Heart/Pith	Allowed
Sapwood	≤50% of board width
End Checks	Up to 2mm wide & 200mm long
Insect Damage	Not Allowed
Filler	Allowed
Colour Variation	Allowed
Small Cracks	Allowed
Inner Bark	Up to 7mm wide & 80mm long, 2 allowed per board
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	Asia
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	Dfl-s1 (EN 13501-1)
Slip Testing	63/36 PTV (CEN/TS 15676:2007)



# 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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