



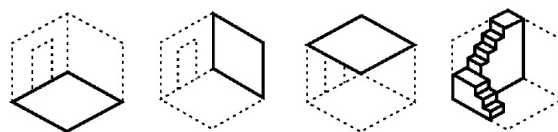
# Technical Data Sheet

Version 1.0

HW3796

## Toulouse

### V Collection



#### Specification

Pattern	Plank
Construction	3-Layered Engineered
Top Layer Specie	European Oak ( <i>Quercus robur</i> )
Surface Process	Brushed
Finish	Matt Lacquered
Connection System	Tongue & Groove
Edge Profile	4-Sided Bevelled Edge
Backing	Spruce Veneer ( <i>Picea</i> spp.)
Wear Layer Thickness	4mm
Total Thickness	14mm
Width	300mm
Length	1800–2400mm (May include up to 25% shorter boards)
Pack Size	3.24–4.32m <sup>2</sup>
Grade	Character



#### Key:

^ Please note that this is a smoked/fumed product. This reactive process will typically generate a wider range of colour variation in the product.

\*\* This product may require on-site sanding prior to applying a suitable finish

‡ Pack lengths will vary between the specified minimum and maximum lengths depending upon stock availability.

\* 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

Sound Knots	Unlimited
Broken Knots	Up to 40mm Ø allowed
Filled Defects	Allowed
Heart/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.

## Technical Criteria

Origin	Europe
Certification	FSC® Certified (FSC-C009500)
Janka Hardness Rating	1,120 lbf (4,980N)
Formaldehyde Emissions	E1 (EN717-1)
Pentachlorophenol Emissions	< 5ppm (CEN/TR 14823)
Slip Testing	45/37 PTV (CEN/TS 15676:2007)
Reaction to Fire Classification	Dfl-s1 (EN13501-1)
Thermal Resistance	0.12 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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