

# Technical Data Sheet

Version 1.0



HW2142

## Villard

### Italian 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	Click System
Edge Profile	4-Sided Bevelled Edge
Backing	Pine ( <i>Pinus sylvestris</i> )
Wear Layer Thickness	2.5mm
Total Thickness	14mm
Width	180mm
Length	2200mm (May include up to 25% shorter boards)
Pack Size	2.77m <sup>2</sup>
Grade	Classic



The mark of  
responsible forestry

#### 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*
Nailed/Screwed	No
Floated on Underlay	Yes* (recommended)
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 20% 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.**

## 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	57/28 PTV (CEN/TS 15676)
Reaction to Fire Classification	Dfl-s1 (EN13501-1)
Thermal Resistance	0.13 W/m K (EN 12664)



# HAVWOODS

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



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