

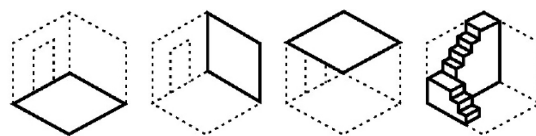
## Technical Data Sheet

Version 1.0

HW88128

### Quadro

### Colossal



#### Specification

Pattern	Plank
Construction	Multi-Layered Engineered
Top Layer Specie	European Oak (Quercus robur)
Surface Process	Flat Surface
Finish	UV Oiled
Connection System	Tongue & Groove
Edge Profile	4-Sided Bevelled Edge
Backing	Birch Plywood (Betula pendula)
Wear Layer Thickness	4-6mm
Total Thickness	19mm
Width	280-480mm
Length	2000-3900mm (Random Lengths)
Pack Size	Various
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	Yes*
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 Ø allowed
Broken Knots	Up to 50mm Ø allowed
Filled Defects	Allowed
Heart/Pith	Allowed
Sapwood	Up to 10% of the width allowed (in 10% of board, max 10% of width)
End Checks	50% of board allowed (Max 5mm open)
Insect Damage	Not allowed
Filler	Allowed
Colour Variation	Allowed
Small Cracks	Up to 4mm open allowed, max length up to width of board
Inner Bark	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), Indoor Air Comfort Gold®
Janka Hardness Rating	1,120 lbf (4,980N)
Formaldehyde Emissions	E1 (EN 717-1)
Pentachlorophenol Emissions	< 5ppm (CEN/TR 14823)
Reaction to Fire Classification	Cfl-s1 (EN 13501-1)
Slip Testing	82/42 PTV (CEN/TS 15676:2007)
Thermal Conductivity	λ 0.17 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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