



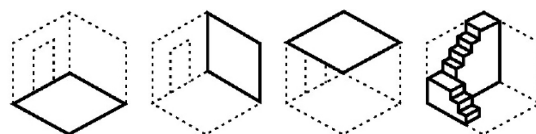
Technical Data Sheet

Version 2.0

HW9818

Quadro FR

FlameLESS



Specification

Pattern	Plank
Construction	Multi-Layered Engineered
Top Layer Specie	European Oak (Quercus robur)
Surface Process	Sanded & Stained
Finish	UV Acrylic Lacquer
Connection System	Tongue & Groove
Edge Profile	2-Sided Bevelled Edge
Backing	Birch Plywood (Betula spp.)
Wear Layer Thickness	4mm
Total Thickness	16mm
Width	190mm
Length	600-2400mm (May include up to 25% shorter boards)
Pack Size	TBC
Grade	Prime



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	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	Up to 10mm Ø allowed
Broken Knots	Up to 12mm Ø allowed
Filled Defects	Allowed
Heart/Pith	Pith rays allowed as part of fine selection
Sapwood	Not allowed
End Checks	Not allowed
Insect Damage	Not allowed
Filler	Allowed
Colour Variation	Allowed
Small Cracks	Not allowed
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)
Janka Hardness Rating	1,120 lbf (4,980N)
Formaldehyde Emissions	E1 (EN 717-1)
Pentachlorophenol Emissions	< 5ppm (CEN/TR 14823)
Reaction to Fire Classification	Bfl-s1 (EN 13501-1)
Slip Testing	64/54 PTV (EN 16165:2021)



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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