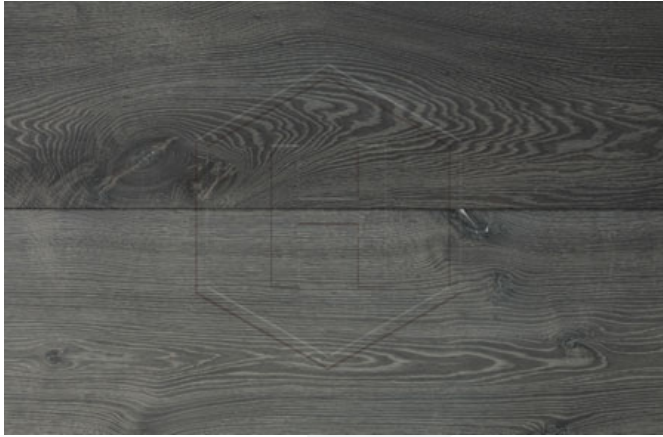




TECHNICAL DATA SHEET

HW88102 HALLAM HAND GRADE

USAGE: (SEE HAVWOODS QUICK REFERENCE GUIDE TO CHOOSING THE CORRECT FLOOR).



PRODUCT DETAILS

Product Code	HW88102
Product Range	Hand Grade
Construction	Engineered 3 layer
Specie	Oak, Birch Plywood, Oak
Pattern	1-Strip Plank
Process	Flat Surface
Finish	Hard Wax Oil Finish
Profile	T&G Ends Matched
Edge Profile	Micro-Beveled Edge
Top Layer	4mm (1/8") Solid European Oak
Backing	Birch Plywood
Thickness	19mm (3/4")
Width	Random: 280, 330, 380, 430, 480mm (11", 13", 15", 17", 19")
Length	2000-4000mm (Random: 78 3/4" - 157 1/2")
Maintenance	Comprehensive maintenance instructions and materials are available from Havwoods Ltd. for all floors



INSTALLATION METHODS

Fully Bonded	Yes (Recommended)*
Nailed	Yes *
Floated on Underlay	No
Over Underfloor Heating	Yes*# (to be installed over Wet Underfloor Heating Systems only - Please see UFH Installation Guidelines for details)

GRADING CRITERIA

Maximum Size of Sound Knots	Unlimited Diameter Allowed
Maximum Size of Broken Knots	50mm (2") Diameter Allowed
Filled Defects	Allowed
Heart/Pith	Allowed
Sapwood	Face Side Allowed
End Checks	50% of Board Allowed (Max 5mm (1/4") Open)
Insect damage	Not Allowed
Filler	Allowed
Color Variation	Rouge Allowed in Dark Colors Only
Inner Bark	Not Allowed

NB: The product grading criteria is an approximation. Please ask for details

TECHNICAL CRITERIA

Origin	Europe
Responsible Certification	FSC® Certified
Janka Hardness Rating	1,360 lbf (6,000N)
Formaldehyde Emission	E1/BLQ (0.01ppm) - CARB 2 Compliant
Pentachlorophenol Emission	< 5ppm
Slip Testing	82 PTV
Reaction to Fire Classification	Cfl-s1
Thermal Conductivity	0.17 W/mK

* 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 AND WARRANTY

All Havwoods floors 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 standard worldwide.

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