



HAVWOODS
INTERNATIONAL

TECHNICAL DATA SHEET

HW3271 Empress

Design from Havwoods

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



PRODUCT DETAILS

Product Code	HW3271
Product Range	Design from Havwoods
Construction	Engineered
Specie	European Oak
Pattern	Herringbone
Process	Brushed & Fine Sawn
Finish	UV Oiled
Profile	Tongue & Groove
Edge Profile	Bevelled Edge
Top Layer	4mm European Oak
Backing	Birch Plywood
Thickness	15mm
Width	140mm
Length	700mm
Pack Size	0.98m ²
Grade	Rustic
Maintenance	Comprehensive maintenance instructions and materials are available from Havwoods for all floors.

INSTALLATION METHODS

Fully Bonded	Yes* (recommended)
Nailed	No
Floated on underlay	No
Over Underfloor Heating	Yes*# (please see our UFH heating guidelines)

GRADING CRITERIA

Known as either natural or rustic grade this allows a virtually limitless size and number of knots. Heartwood will be used, there will be colour variation, sapwood and filler; you should expect checks (cracks across the growth ring) and possibly some end shake (cracks between the rings). The colour of the filler is carefully selected to compliment the wood rather than to match it exactly and it may vary from batch to batch.

N.B. The product grading criteria is inspected at each mill visually and should be taken as an approximation only. Please ask for further details

TECHNICAL CRITERIA

Origin	Europe
Responsible Certification	Please ask a member of staff for details
Janka Hardness Rating	1,360 lbf (6,000N)
Formaldehyde Emission	E1(EN 717-1)
Pentachlorophenol Emission	< 5ppm (CEN/TR 14823)
Slip testing	71/29 PTV (CEN/TS 15676:2007)
Reaction to Fire Certification	Cfl-s1 (EN 13501-1:2007)
Thermal Conductivity	λ 0.17 W/m K (EN 12664)

* 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 standards worldwide.

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Havwoods Limited, Carnforth Business Park, Oakwood Way, Carnforth LA5 9FD
T. +44(0)1524 737000 F.+44(0)1524 737001
info@havwoods.co.uk www.havwoods.co.uk