



**HAVWOODS**  
INTERNATIONAL

## TECHNICAL DATA SHEET

### HW9088 V20

#### V Collection

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



#### PRODUCT DETAILS

<b>Product Code</b>	HW9088
<b>Product Range</b>	V Collection
<b>Construction</b>	Engineered
<b>Specie</b>	European Oak
<b>Pattern</b>	1-Strip
<b>Process</b>	Sanded
<b>Finish</b>	UV Oiled
<b>Profile</b>	Tongue & Groove
<b>Edge Profile</b>	Bevelled Edge
<b>Top Layer</b>	5.5mm European Oak
<b>Backing</b>	Birch Plywood
<b>Thickness</b>	20mm
<b>Width</b>	180mm
<b>Length</b>	Random
<b>Pack Size</b>	TBC
<b>Grade</b>	Rustic
<b>Maintenance</b>	Comprehensive maintenance instructions and materials are available from Havwoods for all floors.

#### INSTALLATION METHODS

<b>Fully Bonded</b>	Yes* (recommended)
<b>Nailed</b>	Yes*
<b>Floated on underlay</b>	Yes*
<b>Over Underfloor Heating</b>	Yes*# (Water-fed systems only)

#### 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

<b>Origin</b>	Europe
<b>Responsible Certification</b>	Please ask a member of staff for details
<b>Janka Hardness Rating</b>	1,120 lbf (4,980N)
<b>Formaldehyde Emission</b>	E1 (EN 717-1:2004)
<b>Pentachlorophenol Emission</b>	< 5ppm (EN 17070:2006)
<b>Slip testing</b>	50/32 PTV (CEN/TS 15676:2007)
<b>Reaction to Fire Certification</b>	Cfl-s1 (EN 13501-1)
<b>Thermal Conductivity</b>	$\lambda$ 0.16 W/mK (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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