

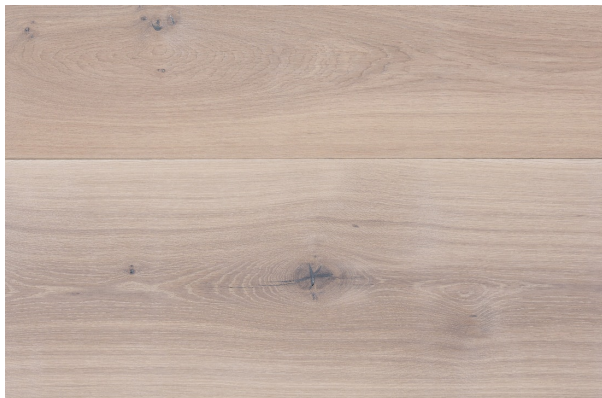


## TECHNICAL DATA SHEET

### HW88101 Ryder

#### Hand Grade

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



#### PRODUCT DETAILS

Product Code	HW88101
Product Range	Hand Grade
Construction	Engineered
Specie	European Oak (Quercus Robur)
Pattern	1-Strip
Process	Flat Surface
Finish	Oiled
Profile	Tongue & Groove
Edge Profile	4-Sided Bevelled Edge
Top Layer	4-6mm European Oak (Quercus Robur)
Backing	Birch Plywood (Betula Pendula)
Thickness	19mm
Width	280-480mm
Length	2000-3900mm (May include up to 25% shorter boards)
Pack Size	Various
Grade	Rustic
Maintenance	Comprehensive maintenance instructions and materials are available from Havwoods for all floors.

#### INSTALLATION METHODS

Fully Bonded	Yes* (recommended)
Nailed	Yes*
Floated on underlay	No
Over Underfloor Heating	Yes*# (Please ask for our technical 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 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	FSC® Certified (FSC-C009500)
Janka Hardness Rating	1,120 lbf (4,980N)
Formaldehyde Emission	E1 (EN717-1)
Pentachlorophenol Emission	< 5ppm (CEN/TR 14823)
Slip testing	82/42 PTV (CEN/TS 15676:2007)
Reaction to Fire Certification	Cfl-s1 (EN13501-1)
Thermal Conductivity	λ 0.17 W/m K (EN 12664)

\* Subject to compatible subfloor and correct installation (see Installation Guidelines) including sensors.

\*\* This product may require on-site sanding prior to applying a suitable finish

# Temperature of top-face must never be allowed to exceed 27°C. UFH protocol to control temperature conditions is recommended.

‡ Pack lengths will either 1950mm or 2400mm dependant upon stock availability.

**INSTALLATION AND WARRANTY** 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.

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