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### Installation Methods

Fully Bonded	Yes*
Nailed	No
Floated on underlay	Yes*
Over Underfloor Heating	Not Recommended

### Grading Criteria

Rustic grade, also known as natural grade, 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.

**NB: The product grading criteria is an approximation only. Please ask for details. Contact your Havwoods consultant on 1300 428 966.**

### Product Details

Product Code	EP128
Product Range	Urban Living
Construction	3 Layer Engineered
Species	European Oak (Quercus Robur)
Pattern	1-Strip
Process	Brushed & Stained
Finish	Matt Lacquered
Profile	5G Click System
Edge Profile	Bevelled Edge
Top Layer	3mm European Oak (Quercus Robur)
Backing	(Hevea Brasiliensis) Core with Eucalyptus Plywood (Eucalyptus Grandis)
Thickness	14mm
Width	192mm
Length	Maximum length, 1820mm or 2150mm, with up to 37% of shorter boards down to 600mm minimum length. Up to 3 out of 8 rows in each pack will have short boards.
Pack Size	2.096m <sup>2</sup> / 2.4768m <sup>2</sup>
Grade	Rustic
Maintenance	Comprehensive maintenance instructions and materials are available from Havwoods for all floors.

### Technical Criteria

Origin	Malaysia
Sustainability	Havwoods timber is sourced from sustainably managed forests that also adhere to local illegal logging legislation.
Janka Hardness Rating	4.98 kN
Formaldehyde Emission	E1 (EN 717-1) <0.03 ppm
Pentachlorophenol Emission	NPD
Slip Testing	P3 (AS 4586-2013)
Reaction to Fire	5.10 kW/m <sup>2</sup> (AS ISO 9239.1-2003)
Thermal Conductivity	0.13 W/m K (EN 12664)

^ Please note that this is a smoked/fumed product. This reactive process will typically generate a wider range of colour variation in the product.

\* 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. Under Floor Heating UFH protocol to control temperature conditions is recommended.

‡ Pack lengths will either be 1950mm or 2400mm dependent 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 adhering to Australian standards or equivalent standards worldwide.

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