






# THUNDER

COLOUR COLLECTION




## PRODUCT INFORMATION

	<b>Species</b>	European Oak
	<b>Surface texture</b>	Smooth
	<b>Finish</b>	Oil
	<b>Grades</b>	Plank options: Prime Rift, Prime R&Q, Prime, Premier 1-bis, Select, Rustic, Classical Herringbone options: Prime, Premier 1-bis, Rustic, Classical, Colonial
	<b>Construction</b>	Duoplank® Engineered


## DIMENSIONS

	<b>Thickness</b>	15, 20 mm (5/8", 3/4")
	<b>Plank widths</b>	80, 110, 142, 180, 240 mm (3 5/32", 4 11/32", 5 9/16", 7", 9 1/2")
	<b>Plank lengths</b>	1790, 1970, 2100, 2220, 2470 mm (5'11", 6'6", 6'11", 7'3", 8'1")
	<b>Herringbone dimensions</b>	80 x 480, 85 x 510, 110 x 550, 115 x 575, 142 x 710, 180 x 1080 mm (3 5/32" x 18 29/32", 3 3/8" x 20 1/16", 4 11/32" x 21 5/8", 4 1/2" x 22 5/8", 5 9/16" x 27 15/16", 7" x 42 1/2")
	<b>Chevron</b>	30°: 80 x 660, 110 x 710, 142 x 710, 180 x 920 mm (3 5/32" x 25 31/32", 4 11/32" x 27 15/16", 5 9/16" x 27 15/16", 7" x 36 1/4") 45°: 80 x 550, 110 x 550, 142 x 660, 180 x 980 mm (3 5/32" x 21 5/8", 4 11/32" x 21 5/8", 5 9/16" x 25 31/32", 7" x 38 9/16") 60°: 80 x 510, 110 x 510, 142 X 510, 180 x 510 mm (3 5/32" x 20 1/16", 4 11/32" x 20 1/16", 5 9/16" x 20 1/16", 7" x 20 1/16")

## INSTALLATION

	<b>Plank</b>	Glue down, floating 4-side tongue & groove
	<b>Herringbone &amp; Chevron</b>	Glue down 1 side tongue, 2 side groove (Chevron includes left & right elements)

## USAGE

	<b>Recommended usage</b>	Suitable for use in all project sectors: Residential, Commercial, Hospitality, Retail
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SUBFLOOR HEATING & COOLING

	<b>Compatibility</b>	Guarantee available when installed and maintained in accordance with Hakwood Subfloor Heating & Cooling document
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SUSTAINABILITY	TEST METHOD	MINIMUM REQUIREMENT	PERFORMANCE
<b>FSC certified (Mix)</b>		FSC® Certificate-Code: SCS-COC-000609	Meets requirement On request

ENGINEERED WOOD FLOORING STANDARD	TEST METHOD	MINIMUM REQUIREMENT	PERFORMANCE
 <b>CE (Conformité Européenne)</b> European standard	EN 14342	CE Compliant	Meets requirement
<b>NWFA (National Wood Flooring Association)</b> U.S. Standard	ANSI/HPVA EF2009	NWFA Compliant	Meets requirement

LOW EMITTING MATERIALS	TEST METHOD	MINIMUM REQUIREMENT	PERFORMANCE
 <b>E1 certificate</b>	EN 717-7	E1 compliant & E2 compliant	Meets requirement
<b>California Air Resources Board (CARB)</b> Certificate for formaldehyde	ASTM E1333	CARB Compliant	Meets requirement
 <b>Émissions dans l'air intérieur A+ label</b> France national Volatile Organic Compound (VOC) A+ label	ISO 16000p 3,6,9	A+ / very low-emission	Meets requirement
 <b>AgBB</b> German label for low emissions	ISO 16000	Meets requirement	Meets requirement
 <b>CA 01350</b> California Section 01350 Test for VOC Emissions	CA DPHS Standard Practice Section 01350	CA01350 Compliant	Meets requirement

SLIP RESISTANCE	TEST METHOD	MINIMUM REQUIREMENT	PERFORMANCE
 <b>EN14342</b> Wood flooring - characteristics, evaluation of conformity and marking	CEN/TS 15676 Determination of the anti-skid properties	59 USRV Unpolished Slip Resistance Value	Meets requirement
	DIN 51130	R9 (range 6°-10°)	Meets requirement
	DIN 51097 / GUW-I 8527	B	Meets requirement
	ASTM C1028-96	0.63 (Dry) 0.63 (Wet) Static coefficient of friction	Meets requirement

SOUND TEST	TEST METHOD	MINIMUM REQUIREMENT	PERFORMANCE
 <b>Impact sound reduction</b>	EN ISO 140-8 EN ISO 717-2	20 mm: 14 dB [Lw] 15 mm: 16 dB [Lw]	Meets requirement

SCRATCH RESISTANCE	TEST METHOD	MINIMUM REQUIREMENT	PERFORMANCE
	DIN 68861	4E	Meets requirement

REACTION TO FIRE	TEST METHOD	MINIMUM REQUIREMENT	PERFORMANCE
 <b>EN14342</b> Wood flooring - characteristics, evaluation of conformity and marking	EN 13501-1	Cfl-s1	Meets requirement
 <b>Flame spread &amp; smoke development</b>	ASTM E84	Class C	Meets requirement
	NFPA 101	Class C	Meets requirement
	ASTM E648-10NY	Class II	Meets requirement
<b>Installation Information</b>	Download the latest version at <a href="https://www.hakwood.com/en/downloads/">https://www.hakwood.com/en/downloads/</a>		
<b>Care &amp; Maintenance Instruction</b>			
<b>Subfloor Heating &amp; Cooling</b>			

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