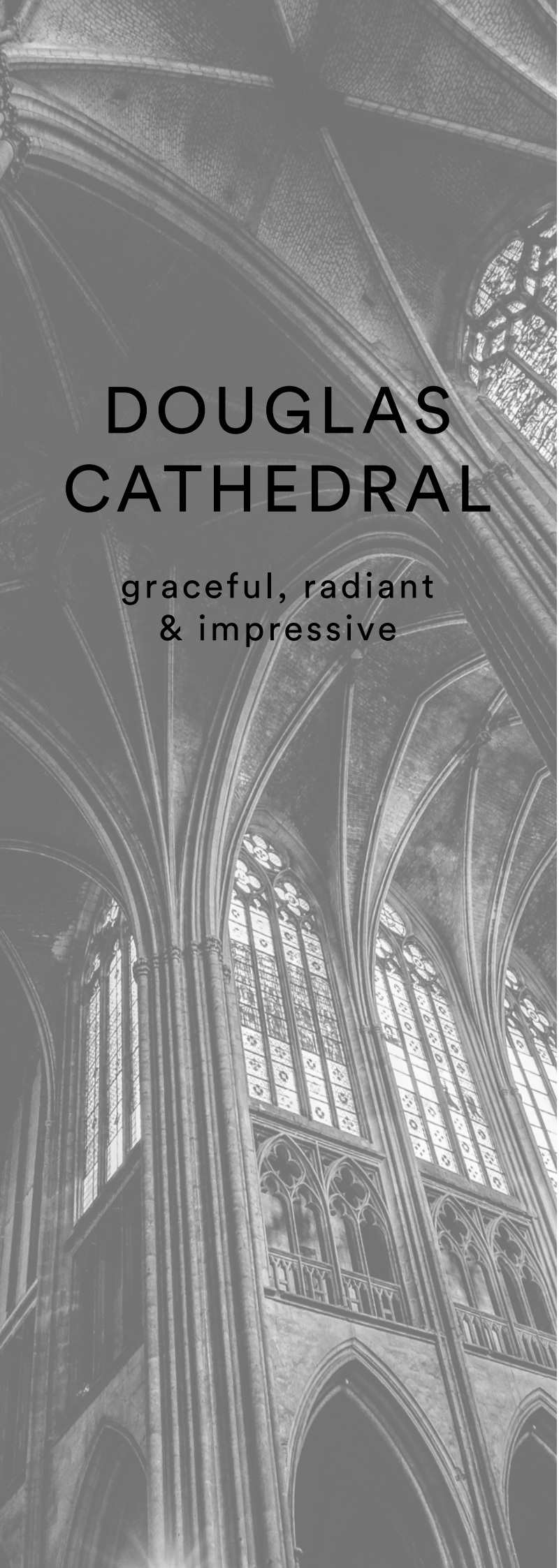
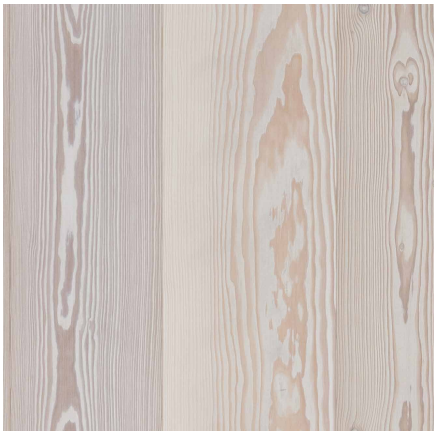


DOUGLAS CATHEDRAL

graceful, radiant
& impressive

Collection



Douglas Cathedral light

Douglas Cathedral medium

Douglas Cathedral dark

Schotten & Hansen

05/2023 B LD DG EN 4

Douglas Cathedral

Product specifications

Description	Construction: Top-Layer: Carrier:	Three-layer engineered board Douglas Fir veneer Softwood
Length[1]	2450-5000 mm; in steps of 500 mm[2]; short length share (1450 mm, 1950 mm) up to 10%.	
Width[1]	160-360 mm in natural selection In steps of 10 mm	
Thickness[1] [2]	19 mm[4] (± 0.5 mm)	
Top-layer[1]	4.5 mm; glued waterproof and formaldehyde-free.	
Surface	Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment. Avoid strongly acidic and alkaline agents.	
Wood moisture content	On delivery: approx. 8 % ex works. A special drying process during production reduces shrinkage and swelling behaviour of the floor boards after installation.	
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC-emission according to AgBB scheme < 1 mg / m³. 	
Fire behaviour classification	Cfl-s1 according to DIN EN 13501-1:2018	
Profile editing	Boards are grooved and tongued on the long sides, Face sides of the boards are grooved. Chamfer: approx. 0.7 mm, 30°. Other chamfer options on request.	
Installations	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing the floorboards on screed.	
Underfloor heating	Schotten & Hansen floorboards are well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity λ [W/(m*K)]: top layer douglas 0.111 (calculated according to EN 14342:2013) Heat contact resistance R [m²K/W]: top layer douglas 0.171 (calculated according to EN 14342:2013) Maximum surface temperature of the floorboards: 29° C.	
Cleaning & Maintenance	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com	
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.	

[1] Dimensions may vary slightly due to production conditions. Distribution of lengths and widths according to production requirements.
[2] Other total thickness of boards possible on request.
[3] Possible fixed lengths: 2450, 3000, 3500, 4000, 4500, 5000 mm.

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05/2023 B LD DG EN 4

Douglas Cathedral

Collection Colours

	light	medium	dark
Douglas Cathedral			

Custom colours possible on request.

Character Selection

Natural	Expressive wood structure, sapwood content possible, isolated resin pockets as well as cracks and knots, repaired by hand.

Treatment

1 Brushed	Strong accentuation of the wood’s typical grain structure by brushing out early wood.

Colour between floorboards is subject to variations and display exhibits or samples, as far as these are due to the natural quality of the used material as well as customary.

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Douglas Cathedral

Further Information

Indoor climate and wooden floor
Wood is a natural material that is adjusting to the indoor climate. Wood absorbs moisture from the air and releases it again.

We would like to point out that during the heating period, the floorboards might strongly dry out and thus develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.
With the maintenance of a comfortable and healthy indoor climate of 20° C and 50% relative humidity during the heating season, you can largely avoid the negative effects of this natural phenomena.
Thermal- and hygrometers control the air in your rooms easily. In case the air is too dry, suitable measures for humidifying the air must be taken. We recommend you a humidifier control - hygrostat for obtaining a constant air humidity.

Installation should be carried out professionally by a trained Schotten & Hansen partner.

Bonding
The preparation of the subsoil is to be carried out in accordance with the guidelines of the adhesive manufacturer and relevant DIN standards.

For the bonding of all Schotten & Hansen floor products we recommend a solvent-free and elastic adhesive.

In the process of glueing, full bonding to the subsoil and a sufficient contact pressure during the setting has to be ensured.

Bonding on Screed
First, an inspection of the subsoil and the application requirements has to be conducted according to VOB Part B DIN 1961 and Part C DIN 18356.
Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

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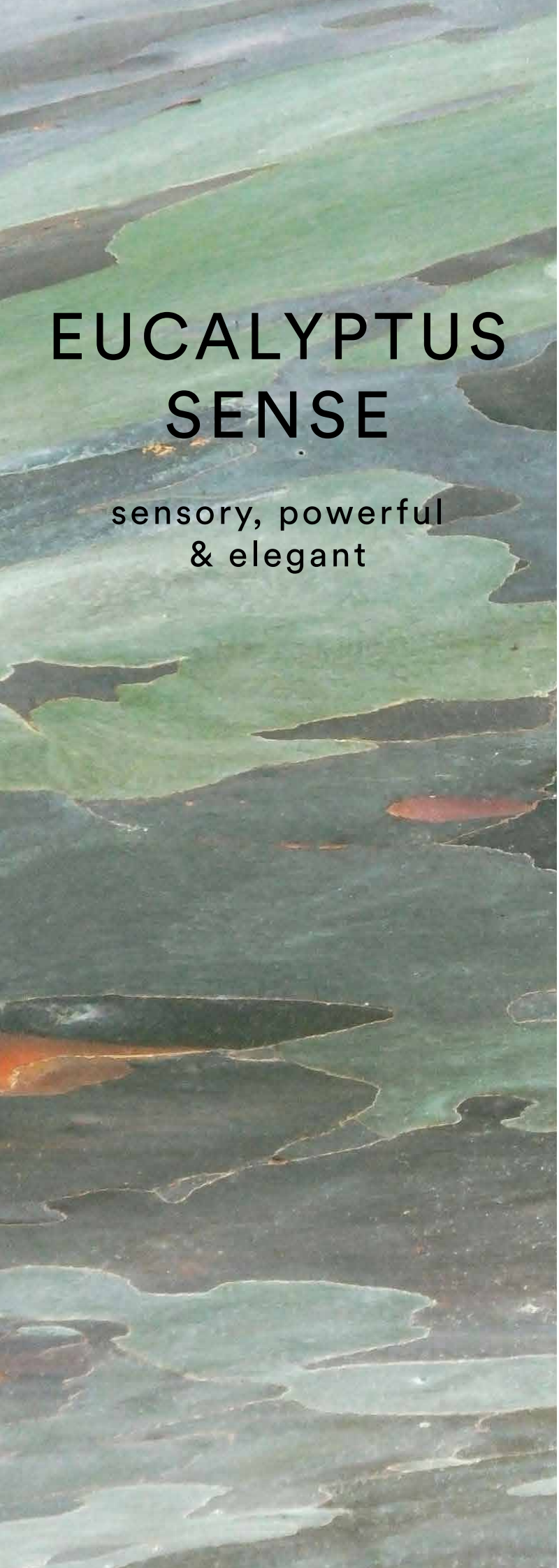
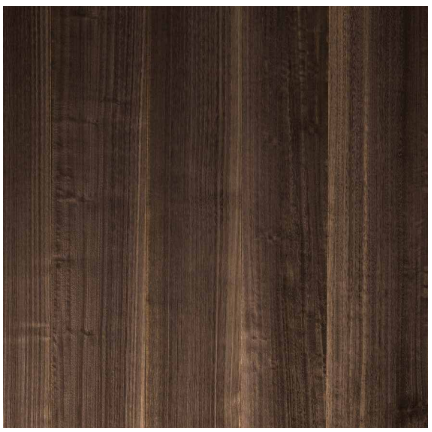


EUCALYPTUS SENSE

sensory, powerful
& elegant

Collection

Eucalyptus Sense light



Eucalyptus Sense medium

Eucalyptus Sense dark

Schotten & Hansen

05/2023 B EU DE 16

Eucalyptus Sense

Product specifications

Description	Construction: Top-Layer: Carrier:	Multi-layer engineered board Eucalyptus Birch plywood
Length [2]	2400-2950 mm; proportionally short lengths up to 10 %.	
Width [2]	160-240 mm in select selection In steps of 10 mm[1]	
Thickness	KD 15	15 mm (± 0,5 mm)
Top-layer	2.8 mm, glued waterproof and formaldehyde-free.	
Surface	Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment. Avoid strongly acidic and alkaline agents.	
Wood moisture content	On delivery: approx. 8 % ex works. A special drying process during production reduces shrinkage and swelling behaviour of the floor boards after installation.	
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC-emission according to AgBB scheme < 1 mg / m³. 	
Fire behaviour classification	Dfl – s1 according to EN 14342:2013	
Profile editing	Tongue and groove on all sides. Chamfer: approx. 0.7 mm, 30°. Other chamfer options on request.	
Installations	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing the floorboards on screed.	
Underfloor heating	Schotten & Hansen floorboards are well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity λ [W/(m*K)]: top layer eucalyptus 0.172 (calculated according to EN 14342:2013) Heat contact resistance R [m²K/W]: top layer eucalyptus 0,086 (calculated according to EN 14342:2013) Maximum surface temperature of the floorboards: 29° C.	
Cleaning & Care	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com	
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.	

[1] Distribution of lengths and widths according to production requirements.
[2] Dimensions may vary slightly due to production conditions. Distribution of lengths and widths according to production requirements.

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05/2023 B EU DE 16

Eucalyptus Sense

Collection Colours

	light	medium	dark
Eucalyptus Sense			

Custom colours possible on request.

Character Selection

Select	Uniform, calm wood texture with occasional knots and predominantly straight grain.

Treatment

3 Shrunk[3]	Special processes create an expressive surface with the character of naturally aged wood.

Colour between floorboards is subject to variations and display exhibits or samples, as far as these are due to the natural quality of the used material as well as customary.

[3] Patented Schotten & Hansen sur face treatment.

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Eucalyptus Sense

Further Information

Indoor climate and wooden floor
Wood is a natural material that is adjusting to the indoor climate. Wood absorbs moisture from the air and releases it again.

We would like to point out that during the heating period, the floorboards might strongly dry out and thus develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.
With the maintenance of a comfortable and healthy indoor climate of 20° C and 50% relative humidity during the heating season, you can largely avoid the negative effects of this natural phenomena.
Thermal- and hygrometers control the air in your rooms easily. In case the air is too dry, suitable measures for humidifying the air must be taken. We recommend you a humidifier control - hygrostat for obtaining a constant air humidity.

Installation should be carried out professionally by a trained Schotten & Hansen partner.

Bonding
The preparation of the subsoil is to be carried out in accordance with the guidelines of the adhesive manufacturer and relevant DIN standards.

For the bonding of all Schotten & Hansen floor products we recommend a solvent-free and elastic adhesive.

In the process of glueing, full bonding to the subsoil and a sufficient contact pressure during the setting has to be ensured.

Bonding on Screed
First, an inspection of the subsoil and the application requirements has to be conducted according to VOB Part B DIN 1961 and Part C DIN 18356.
Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

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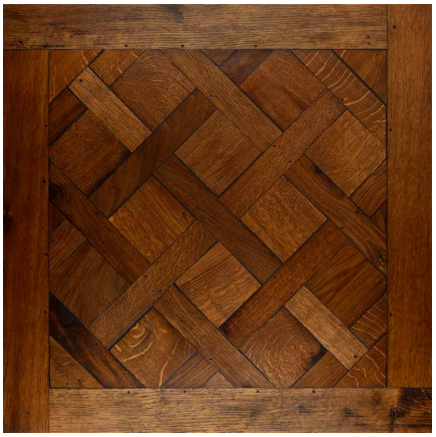
TABLE ANTIQUE

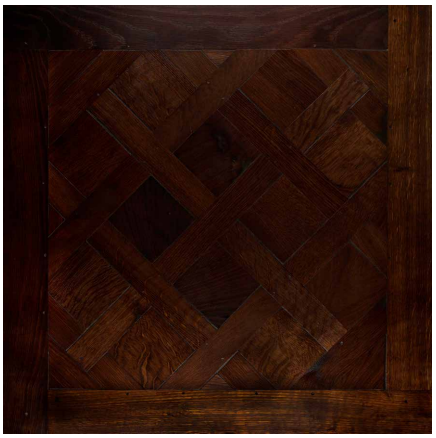
majestic, tactful
& dignified

Collection

Antique light



Antique medium



Antique dark

05/2023 B TP EN 14

Board parquet antique collection

Product specifications

Description	Construction: Top-Layer: Carrier:	Multi-layer engineered board Oak veneer Birch plywood
Length x Width	800 × 800 mm	
Thickness	19 mm (± 0,5 mm)	
Top-layer	2.8 mm, glued waterproof and formaldehyde-free.	
Surface	Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment. Avoid strongly acidic and alkaline agents.	
Wood moisture content	On delivery: approx. 8 % ex works. A special drying process during production reduces shrinkage and swelling behaviour of the floor boards after installation.	
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC-emission according to AgBB scheme < 1 mg / m³. ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C	
Fire behaviour classification	Dfl – s1 according to EN 14342:2013	
Profile processing	Groove on all sides. Chamfer: approx. 0.7 mm, 30°. Connection by means of external springs (11 mm wide, 5 mm thick).	
Installations	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing on screed.	
Underfloor heating	Schotten & Hansen parquet are well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity λ [W/(m*K)]: top layer oak 0.12 (calculated according to EN 14342:2013) Heat contact resistance R [m²K/W]: top layer oak 0.11 (calculated according to EN 14342:2013) Maximum surface temperature: 29° C.	
Cleaning & Care	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com	
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.	

05/2023 B TP EN 14

Schotten & Hansen

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Board parquet antique collection

Collection Colours

	light	medium	dark
Board parquet antique			

Character Selection

6 Engeli	Very vibrant structure with selected knots, pronounced shrinkage and wind cracks, repaired by hand.

Treatment [1]

6 Engeli	Naturally dried surface with antique-looking filled joints and nail holes.

Colour between floorboards is subject to variations and display exhibits or samples, as far as these are due to the natural quality of the used material as well as customary.

[1] Patented Schotten & Hansen surface treatment.

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05/2023 B TP EN 14

Board parquet antique collection

Further Information

Indoor climate and wooden floor
Wood is a natural material that is adjusting to the indoor climate. Wood absorbs moisture from the air and releases it again.

We would like to point out that during the heating period, the floorboards might strongly dry out and thus develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.
With the maintenance of a comfortable and healthy indoor climate of 20° C and 50% relative humidity during the heating season, you can largely avoid the negative effects of this natural phenomena.
Thermal- and hygrometers control the air in your rooms easily. In case the air is too dry, suitable measures for humidifying the air must be taken. We recommend you a humidifier control - hygrostat for obtaining a constant air humidity.

Installation should be carried out professionally by a trained Schotten & Hansen partner.

Bonding
The preparation of the subsoil is to be carried out in accordance with the guidelines of the adhesive manufacturer and relevant DIN standards.

For the bonding of all Schotten & Hansen floor products we recommend a solvent-free and elastic adhesive.

In the process of glueing, full bonding to the subsoil and a sufficient contact pressure during the setting has to be ensured.

Bonding on Screed
First, an inspection of the subsoil and the application requirements has to be conducted according to VOB Part B DIN 1961 and Part C DIN 18356.
Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

05/2023 B TP EN 14

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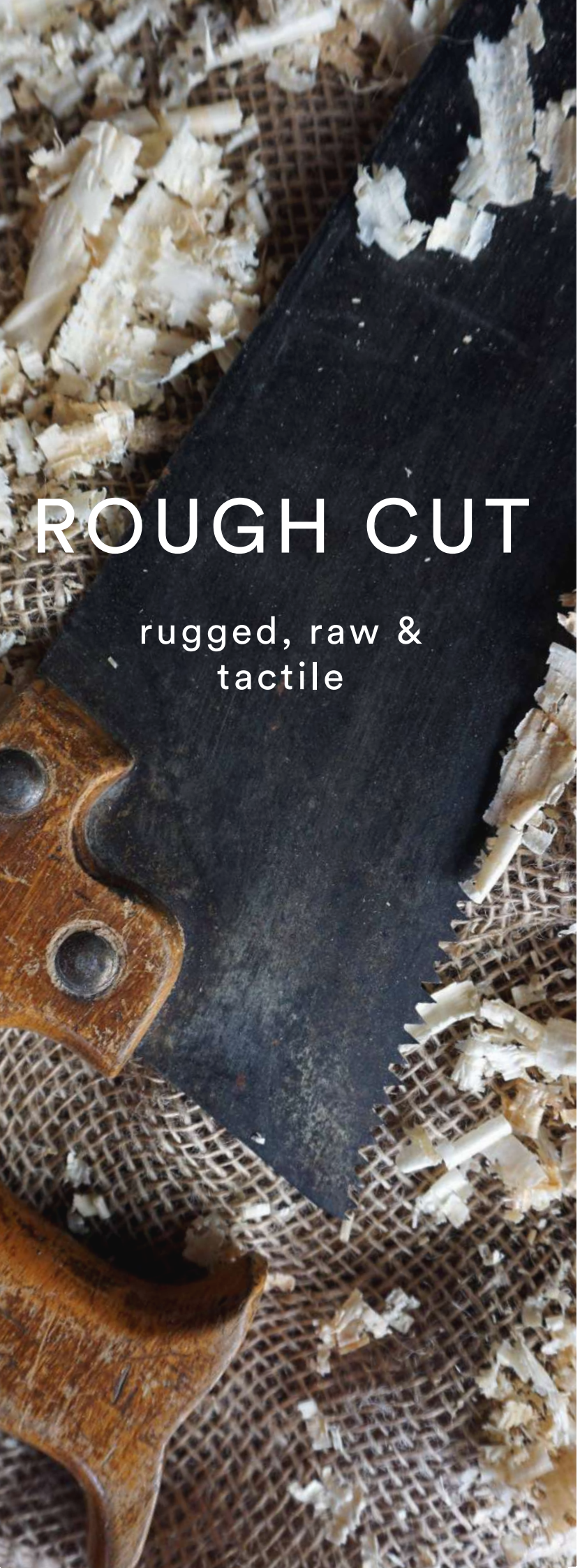

ROUGH CUT

rugged, raw &
tactile

Collection

Linen light

Linen medium

Linen dark

Schotten
&Hansen

11/2023 B RC EN 1

Rough Cut Collection

Product specifications

Description	Construction: Top-Layer: Carrier:	Three-layer engineered board Oak veneer Softwood
Length[1]	2450-5000 mm, in steps of 500 mm[2]; proportionally short lengths up to 10 %.	
Width[1]	160-360 mm, In steps of 10 mm	
Thickness[1]	Approx. 19 mm[3] (± 0,5 mm)	
Top-Layer[1]	Approx. 4.5 mm; glued waterproof and formaldehyde-free.	
Surface	Avoid highly acidic and alkaline substances. Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment.	
Wood moisture content	On delivery: approx. 8 % ex works. A special drying process during production reduces shrinkage and swelling behaviour of the floor boards after installation.	
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC-emission according to AgBB scheme < 1 mg / m³ 	
Fire behaviour classification	Cfl – S 1 according to EN 13501-1:2010	
Profile processing	Boards are grooved and tongued on the long sides, Face sides of the boards are grooved. Chamfer: approx. 0.7 mm, 30°. Other chamfer options on request.	
Installations	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing the floorboards on screed.	
Underfloor heating	Schotten & Hansen floorboards are well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity λ [W/(m*K)]: top layer oak 0.12 (calculated according to EN 14342:2013) Heat contact resistance R [m²K/W]: overall construction 0.15 (calculated according to EN 14342:2013) Maximum surface temperature of the floorboards: 29° C.	
Cleaning & Care	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com	
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.	

[1] Dimensions may vary slightly due to production conditions. Distribution of lengths and widths according to production requirements.
[2] Possible fixed lenghts: 2450, 3000, 3500, 4000, 4500, 5000 mm
[3] Other total thickness of boards possible on request.

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11/2023 B RC EN 1

Rough Cut Collection

Collection Colours

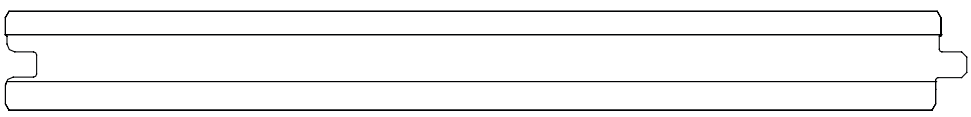
	light	medium	dark
Linen			

Selection

2 Medium	Distinct wood structure with knots, shrinkage and wind cracks, mended by hand.

Treatment

5 Rough Cut	When the wood is cut at a sawmill, grooves, which run at a 90° angle to the length, are created and result in a matt shimmering surface with a pleasantly lively appearance.



We reserve the right to deviations in color compared to exhibits or samples, insofar as these are in the nature of the materials and are customary in the trade.

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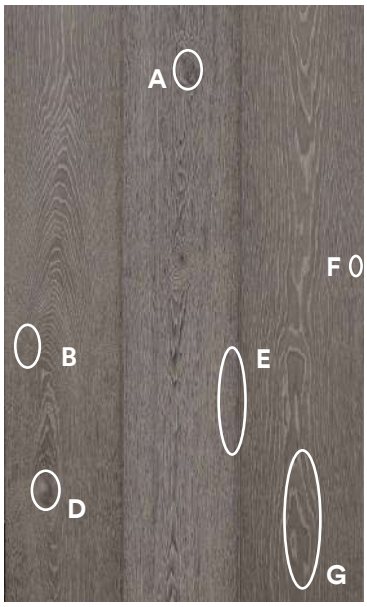
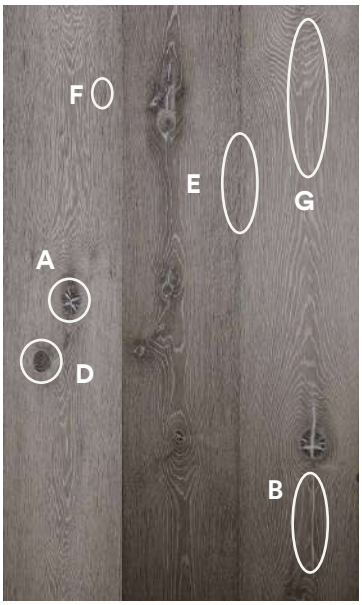
11/2023 B RC EN 1

1. Fine
Even and calm wood structure, with few small knots and fine cracks, mended by hand.



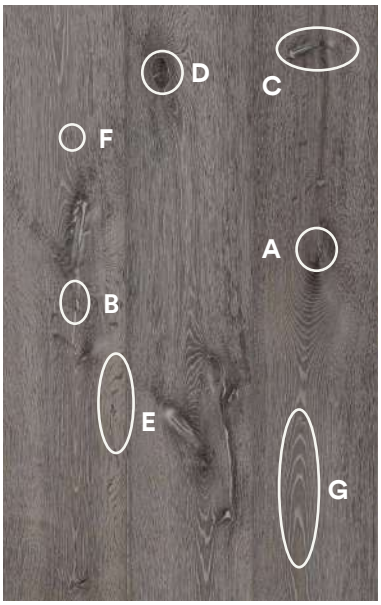
Not included: Splay knots, moon rings

2. Medium
Distinct wood structure, with knots, shrinkage and wind cracks, mended by hand.



Not included: Splay knots

3. Coarse
Very lively wood structure, with selected knots, distinctive shrinkage and wind cracks, mended by hand.



Characteristics

Description

A Knot (intergrown)		Knots firmly intergrown together with the wood tissue. The cracks in a knot are filled by hand.
B Cracks		Cracks caused by e.g. growth stresses or mechanical impacts such as wind, frost or dry weather periods are filled by hand, using a specially produced putty, colour matched to the wood colouration.
C Splay knots		When a branch is cut along its longitudinal axis, this results in a splay knot, stretching out from the core.
D Loose knots		A knothole happens when a knot separates from the wood tissue and drops out. These holes are manually filled with matching wooden implants.
E Medullary rays		The flakes are created by the medullary rays of a tree that formerly provided it with water and nutrients. Transversely running rays are more frequently represented in both the medium and coarse grades.
F Pinknots		Very small knots, which appear in the form of dots, occassionally in close arrangements in the medium and coarse grade selections.
G Cathedral		The wood pores follow the consecutive annual rings. In the medium and coarse selection grades, the otherwise conical curves may also take a wild coarse.
H Moon rings		Late frost periods can cause the formation of moon rings, which appear as visible light rings in the cross-section. These rings occur more often in the medium and coarse grades, which are not depicted in the images above.

The above images symbolise the respective characteristics. These characteristics may appear slightly differently, depending on the chosen treatment and colouration, among other factors. Please note, up to 5% of your order quantity can include planks from an adjacent grade selection.

11/2023 B RC EN 1

Rough Cut Collection

Further Information

Indoor climate and wooden floor
Wood is a natural material that is adjusting to the indoor climate. Wood absorbs moisture from the air and releases it again.

We would like to point out that during the heating period, the floorboards might strongly dry out and thus develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.
With the maintenance of a comfortable and healthy indoor climate of 20° C and 50% relative humidity during the heating season, you can largely avoid the negative effects of this natural phenomena.
Thermal- and hygrometers control the air in your rooms easily. In case the air is too dry, suitable measures for humidifying the air must be taken. We recommend you a humidifier control - hygrostat for obtaining a constant air humidity.

Installation should be carried out professionally by a trained Schotten & Hansen partner.

Bonding
The preparation of the subsoil is to be carried out in accordance with the guidelines of the adhesive manufacturer and relevant DIN standards.

For the bonding of all Schotten & Hansen floor products we recommend a solvent-free and elastic adhesive.

In the process of glueing, full bonding to the subsoil and a sufficient contact pressure during the setting has to be ensured.

Bonding on Screed
First, an inspection of the subsoil and the application requirements has to be conducted according to VOB Part B DIN 1961 and Part C DIN 18356.
Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

11/2023 B RC EN 1

Schotten & Hansen

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OAK 1900

lived-in, authentic & welcoming

Collection

Oak 1900 light

Oak 1900 medium

Oak 1900 dark

Schotten & Hansen

11/2023 B UL EN 1

Eiche 1900 Collection

Product specifications

Description	Construction: Top-Layer: Carrier:	Three-layer engineered board Oak veneer Softwood
Length[1]	2450-5000 mm, in steps of 500 mm[2]; proportionally short lengths up to 10 %.	
Width[1]	280-360 mm; In steps of 10 mm	
Thickness[1]	ca. 19 mm[3] (± 0.5 mm)	
Top-layer[1]	Approx. 4.5 mm; glued waterproof and formaldehyde-free.	
Surface	Avoid highly acidic and alkaline substances. Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment.	
Wood moisture content	On delivery: approx. 8 % ex works. A special drying process during production reduces shrinkage and swelling behaviour of the floor boards after installation.	
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC-emission according to AgBB scheme < 1 mg / m³ 	
Fire behaviour classification	Cfl – S 1 according to EN 13501-1:2010	
Profile processing	Boards are grooved and tongued on the long sides, Face sides of the boards are grooved. Chamfer: approx. 0.7 mm, 30°. Other chamfer options on request.	
Installations	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing the floorboards on screed.	
Underfloor heating	Schotten & Hansen floorboards are well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity λ [W/(m*K)]: top layer oak 0.12 (calculated according to EN 14342:2013) Heat contact resistance R [m²K/W]: overall construction 0.15 (calculated according to EN 14342:2013) Maximum surface temperature of the floorboards: 29° C.	
Cleaning & Care	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com	
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.	

[1] Dimensions may vary slightly due to production conditions. Distribution of lengths and widths according to production requirements.
[2] Possible fixed lenghts: 2450, 3000, 3500, 4000, 4500, 5000 mm
[3] Other total thickness of boards possible on request.

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Eiche 1900 Collection

Collection Colours

	light	medium	dark
Eiche 1900			

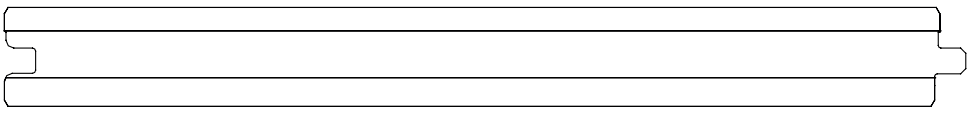
Selection

3 Coarse	Very lively wood structure with selected knots, distinctive shrinkage and wind cracks, mended by hand.

Up to 5% of the boards may originate from the corresponding neighboring selection.

Treatment

3 Shrunk	Special processes create an expressive surface with the character of naturally aged wood. Patented Schotten & Hansen surface treatment.



Colour between floorboards is subject to variations and display exhibits or samples, as far as these are due to the natural quality of the used material as well as customary.

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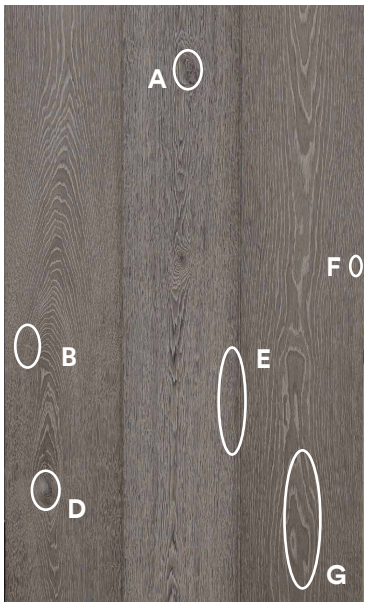
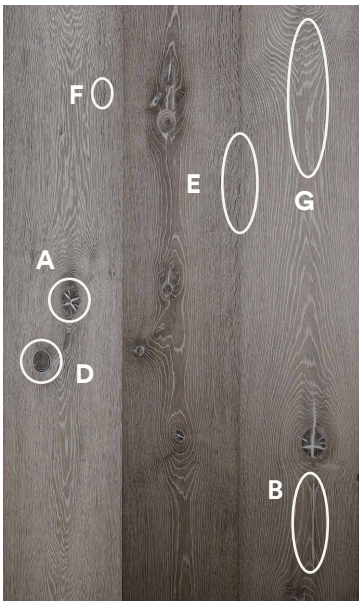
11/2023 B UL EN 1

1. Fine
Even and calm wood structure, with few small knots and fine cracks, mended by hand.



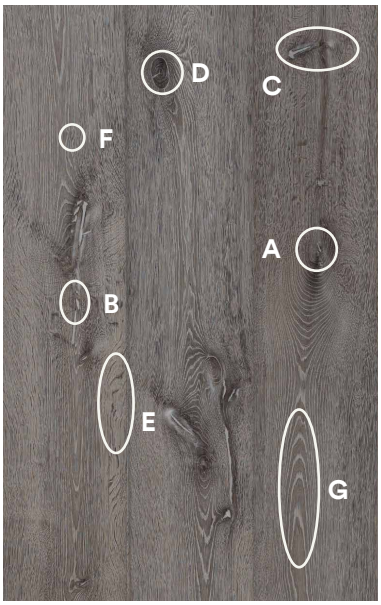
Not included: Splay knots, moon rings

2. Medium
Distinct wood structure, with knots, shrinkage and wind cracks, mended by hand.



Not included: Splay knots

3. Coarse
Very lively wood structure, with selected knots, distinctive shrinkage and wind cracks, mended by hand.



Characteristics

Description

A Knot (intergrown)

Knots firmly intergrown together with the wood tissue. The cracks in a knot are filled by hand.

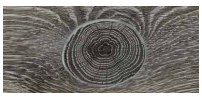
B Cracks

Cracks caused by e.g. growth stresses or mechanical impacts such as wind, frost or dry weather periods are filled by hand, using a specially produced putty, colour matched to the wood colouration.

C Splay knots

When a branch is cut along its longitudinal axis, this results in a splay knot, stretching out from the core.

D Loose knots



A knothole happens when a knot separates from the wood tissue and drops out. These holes are manually filled with matching wooden implants.

E Medullary rays

The flakes are created by the medullary rays of a tree that formerly provided it with water and nutrients. Transversely running rays are more frequently represented in both the medium and coarse grades.

F Pinknots

Very small knots, which appear in the form of dots, occassionally in close arrangements in the medium and coarse grade selections.

G Cathedral

The wood pores follow the consecutive annual rings. In the medium and coarse selection grades, the otherwise conical curves may also take a wild coarse.

H Moon rings

Late frost periods can cause the formation of moon rings, which appear as visible light rings in the cross-section. These rings occur more often in the medium and coarse grades, which are not depicted in the images above.

The above images symbolise the respective characteristics. These characteristics may appear slightly differently, depending on the chosen treatment and colouration, among other factors. Please note, up to 5% of your order quantity can include planks from an adjacent grade selection.

11/2023 B UL EN 1

Eiche 1900 Collection

Further Information

Indoor climate and wooden floor
Wood is a natural material that is adjusting to the indoor climate. Wood absorbs moisture from the air and releases it again.

We would like to point out that during the heating period, the floorboards might strongly dry out and thus develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.
With the maintenance of a comfortable and healthy indoor climate of 20° C and 50% relative humidity during the heating season, you can largely avoid the negative effects of this natural phenomena.
Thermal- and hygrometers control the air in your rooms easily. In case the air is too dry, suitable measures for humidifying the air must be taken. We recommend you a humidifier control - hygrostat for obtaining a constant air humidity.

Installation should be carried out professionally by a trained Schotten & Hansen partner.

Bonding
The preparation of the subsoil is to be carried out in accordance with the guidelines of the adhesive manufacturer and relevant DIN standards.

For the bonding of all Schotten & Hansen floor products we recommend a solvent-free and elastic adhesive.

In the process of glueing, full bonding to the subsoil and a sufficient contact pressure during the setting has to be ensured.

Bonding on Screed
First, an inspection of the subsoil and the application requirements has to be conducted according to VOB Part B DIN 1961 and Part C DIN 18356.
Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

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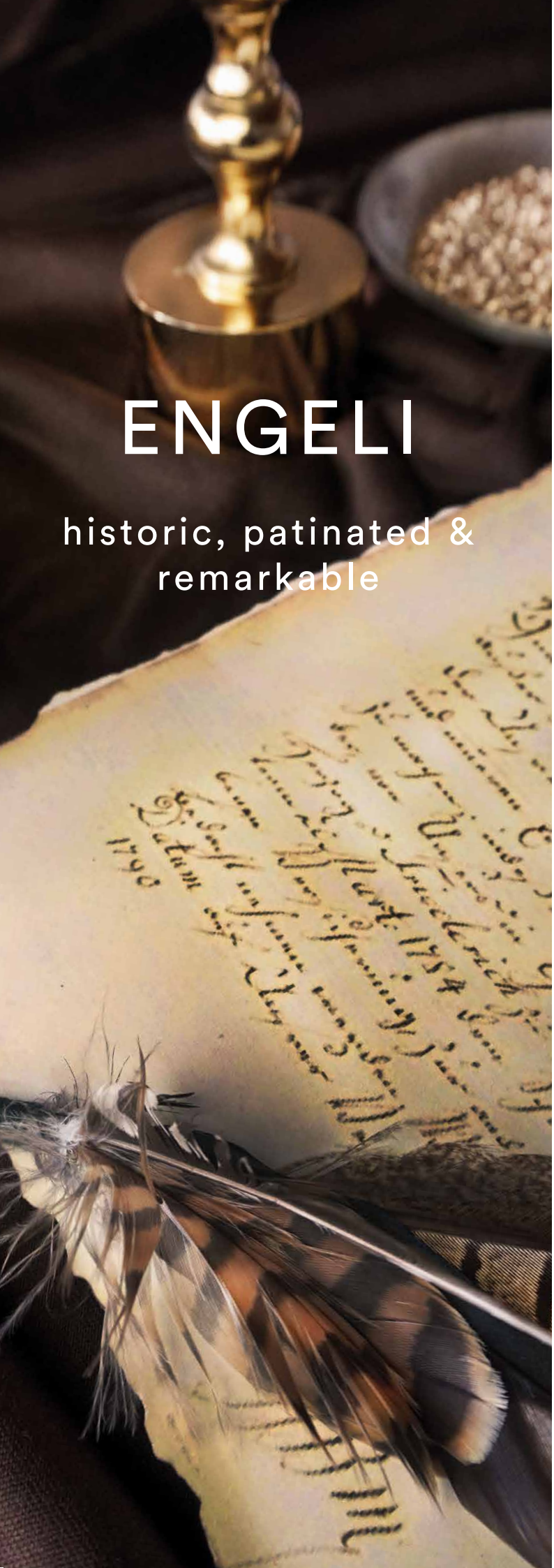

ENGELI

historic, patinated & remarkable

Collection

Engeli light

Engeli medium

Engeli dark

Schotten & Hansen

05/2023 B E EN 1

Engeli Collection

Product specifications

Description	Construction: Top-Layer: Carrier:	Multi-layer construction Oak veneer Birch plywood
Length[1]	2450-5000 mm, in steps of 500 mm[2]; proportionally short lengths (1450 mm, 1950 mm) up to 10 %.	
Width[1]	240-360 mm, In steps of 40 mm[3]	
Thickness[1]	17 mm[4] (± 0.5 mm)	
Top-layer[1]	2.5 mm (± 0.5 mm); glued waterproof and formaldehyde-free.	
Surface	Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment. Avoid strongly acidic and alkaline agents.	
Wood moisture content	On delivery: approx. 8 % ex works. A special drying process during production reduces shrinkage and swelling behaviour of the floor boards after installation.	
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC-emission according to AgBB scheme < 1 mg / m³. 	
Fire behaviour classification	Dfl – s1 according to EN 14342:2013	
Profile processing	Boards are grooved and tongued on the long sides, Face sides of the boards are grooved. Integrated, filled joint 4 mm.	
Installations	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing the floorboards on screed. We recommend a room-length installation of the floor boards.	
Underfloor heating	Schotten & Hansen floorboards are well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity [W/(m*K)]: top layer oak 0.12 (calculated according to EN 14342:2013) Heat contact resistance R [m²K/W]: overall construction 0.11 (calculated according to EN 14342:2013) Maximum surface temperature of the floorboards: 29° C.	
Cleaning & Care	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com	
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.	

[1] Dimensions may vary slightly due to production conditions. Distribution of lengths and widths according to production requirements.
[2] Possible fixed lenghts: 3000, 3500, 4000, 4500, 5000 mm
[3] Possible fixed widths: 240, 280, 320, 360 mm
[4] Other total thickness of boards possible on request

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05/2023 B E EN 1

Engeli Collection

Collection Colours

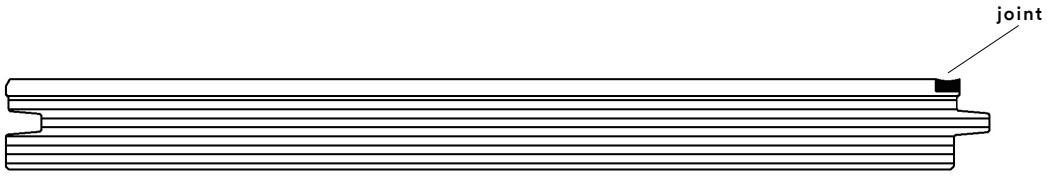
	light	medium	dark
Engeli			

Selection

6 Engeli	Very lively wood structure with selected knots, distinctive shrinkage and wind cracks, mended by hand.

Treatment

6 Engeli	Shrunk treatment[5] with integrated and filled joint between the floor boards in a matching colour.



We reserve the right to deviations in color compared to exhibits or samples, insofar as these are in the nature of the materials and are customary in the trade.

[5] Patented Schotten & Hansen surface treatment.

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Schotten & Hansen

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Engeli Collection

Further Information

Indoor climate and wooden floor
Wood is a natural material that is adjusting to the indoor climate. Wood absorbs moisture from the air and releases it again.

We would like to point out that during the heating period, the floorboards might strongly dry out and thus develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.
With the maintenance of a comfortable and healthy indoor climate of 20° C and 50% relative humidity during the heating season, you can largely avoid the negative effects of this natural phenomena.
Thermal- and hygrometers control the air in your rooms easily. In case the air is too dry, suitable measures for humidifying the air must be taken. We recommend you a humidifier control - hygrostat for obtaining a constant air humidity.

Installation should be carried out professionally by a trained Schotten & Hansen partner.

Bonding
The preparation of the subsoil is to be carried out in accordance with the guidelines of the adhesive manufacturer and relevant DIN standards.

For the bonding of all Schotten & Hansen floor products we recommend a solvent-free and elastic adhesive.

In the process of glueing, full bonding to the subsoil and a sufficient contact pressure during the setting has to be ensured.

Bonding on Screed
First, an inspection of the subsoil and the application requirements has to be conducted according to VOB Part B DIN 1961 and Part C DIN 18356.
Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

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TIGER GRAIN

bold, wild & recognisable

Collection

Linen light

Linen medium

Linen dark

Schotten & Hansen

11/2023 B TG EN 1

Tiger Grain Collection

Product specifications

Description	Construction: Top-Layer: Carrier:	Multi-layer construction Oak veneer Birch plywood
Length[1]	1450-2950 mm; proportionally short lengths up to 10%	
Width[1]	160-240 mm; In steps of 10 mm	
Thickness[1]	ca. 15 mm[2] (± 0.5 mm)	
Top-layer[1]	Approx. 2.8 mm; glued waterproof and formaldehyde-free.	
Surface	Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment. Avoid strongly acidic and alkaline agents.	
Wood moisture content	On delivery: approx. 8 % ex works. A special drying process during production reduces shrinkage and swelling behaviour of the floor boards after installation.	
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC-emission according to AgBB scheme < 1 mg / m³. 	
Fire behaviour classification	Cfl – S 1 according to EN 13501-1:2010	
Profile processing	Boards are grooved and tongued on the long sides, Face sides of the boards are grooved. Chamfer: approx. 0.7 mm, 30°. Other chamfer options on request.	
Installations	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing the floorboards on screed.	
Underfloor heating	Schotten & Hansen floorboards are well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity λ [W/(m*K)]: top layer oak 0.169 (calculated according to EN 14342:2013) Heat contact resistance R [m²K/W]: overall construction 0.088 (calculated according to EN 14342:2013) Maximum surface temperature of the floorboards: 29° C.	
Cleaning & Care	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com	
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.	

[1] Dimensions may vary slightly due to production conditions and availability. Distribution of lengths and widths according to production requirements.

[3] Other total thickness of boards possible on request.

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11/2023 B TG EN 1

Tiger Grain Collection

Collection Colours

	light	medium	dark
Linen			

Selection

5 Tiger Grain	Even and calm wood structure with few small knots and fine cracks, mended by hand. The hand-picked feature of the cut wood rays results in a distinctive tiger-pelt appearance that gives contemporary flair to any space.

Treatment

1 Brushed	Accentuate the wood’s typical grain structure by brushing out early wood.

We reserve the right to deviations in color compared to exhibits or samples, insofar as these are in the nature of the materials and are customary in the trade.

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Tiger Grain Collection

Further Information

Indoor climate and wooden floor
Wood is a natural material that is adjusting to the indoor climate. Wood absorbs moisture from the air and releases it again.

We would like to point out that during the heating period, the floorboards might strongly dry out and thus develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.
With the maintenance of a comfortable and healthy indoor climate of 20° C and 50% relative humidity during the heating season, you can largely avoid the negative effects of this natural phenomena.
Thermal- and hygrometers control the air in your rooms easily. In case the air is too dry, suitable measures for humidifying the air must be taken. We recommend you a humidifier control - hygrostat for obtaining a constant air humidity.

Installation should be carried out professionally by a trained Schotten & Hansen partner.

Bonding
The preparation of the subsoil is to be carried out in accordance with the guidelines of the adhesive manufacturer and relevant DIN standards.

For the bonding of all Schotten & Hansen floor products we recommend a solvent-free and elastic adhesive.

In the process of glueing, full bonding to the subsoil and a sufficient contact pressure during the setting has to be ensured.

Bonding on Screed
First, an inspection of the subsoil and the application requirements has to be conducted according to VOB Part B DIN 1961 and Part C DIN 18356.
Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

11/2023 B TG EN 1

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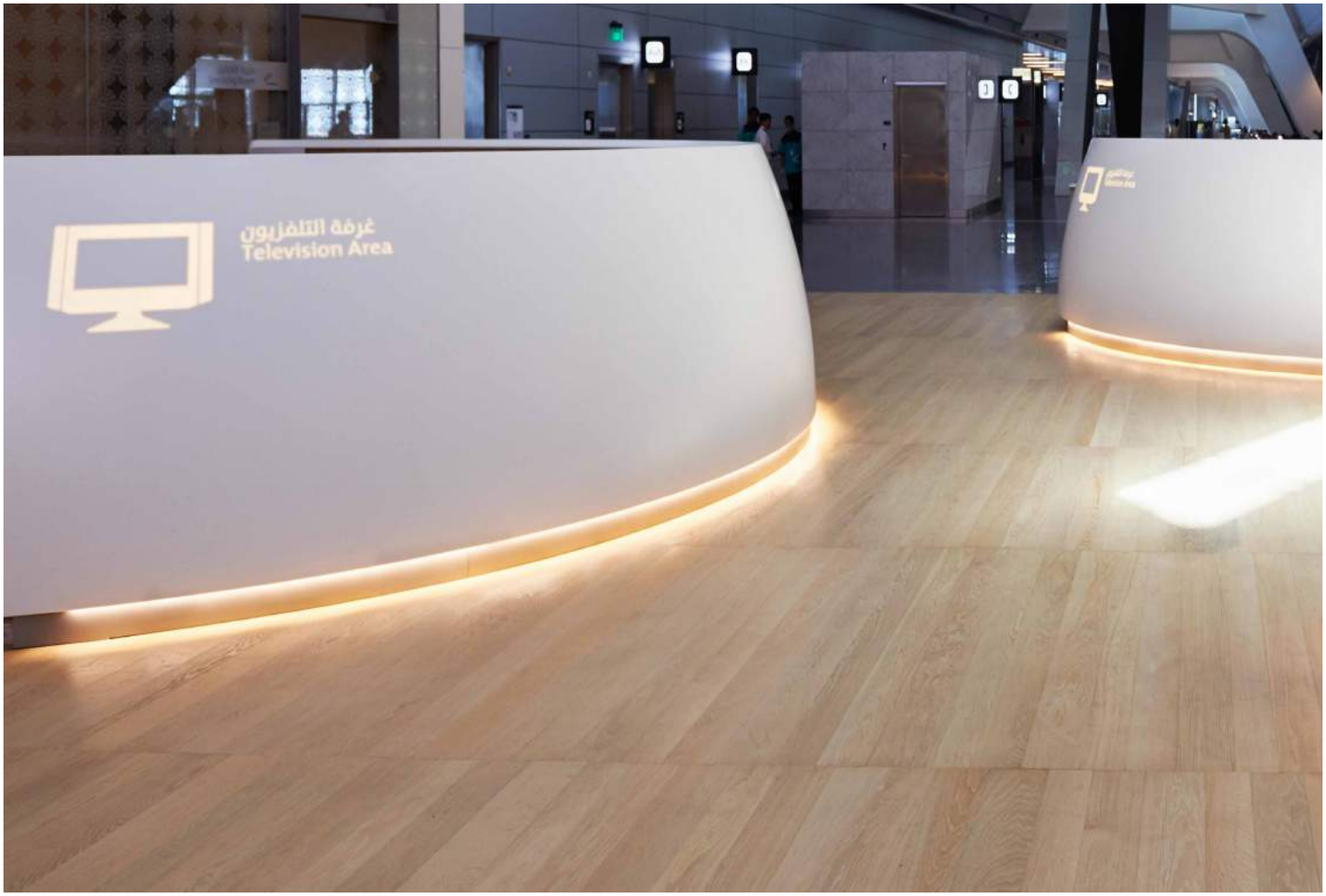
Short Board



11/2023 B KD EN 16

Schotten & Hansen

Nature Refined.

Short Board

Product specifications

Description	Construction:	Multi-layer engineered board			
	Top-layer:	Oak veneer			
	Carrier:	Birch plywood			
Length	2400 - 2950 mm; proportionally short lengths 1450 mm, 1950 mm) up to 10 %.				
Width	160-240 mm in fine and medium selection. In steps of 10 mm[1].				
Thickness[3]	KD 9	9 mm	KD 15	15 mm	
	KD 12	12 mm	KD 18	18 mm	
Top-layer[1]	2.8 mm; glued waterproof and formaldehyde-free.				
Surface	Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment. Avoid strongly acidic and alkaline agents. Slip resistance PTV according to BS 7976-2:2002 - mean value 54 (low slip hazard under dry conditions); test specimen in fine selection and treatment machining.				
Wood moisture content	On delivery: approx. 8 % ex works. A special drying process during production reduces shrinkage and swelling behaviour of the floor boards after installation.				
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC emission according to AgBB-Schema < 1 mg / m³ 				
Fire behaviour classification	Cfl – s1 according to EN 13501-1:2010				
Profile processing	With circumferential groove and tongue; Chamfer: approx 0.7 mm, 30°. Other chamfer options on request.				
Installation	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing the floorboards on screed.				
Underfloor heating	Schotten & Hansen floorboards are well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity λ [W/(m*K)]: oak top layer 0.169 (calculated according to EN 14342:2013) Heat contact resistance R [m²K/W]: oak top layer 0.088 (calculated according to EN 14342:2013) Maximum surface temperature of the floorboards: 29° C.				
Cleaning & Care	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com				
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.				

[1] Distribution of lengths and widths according to production requirements.
[3] (± 0.5 mm)

11/2023 B KD EN 16

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Short Board

Edition Oak

	light	medium	dark
Pebble Stone			
Oyster			
Linen			
Smoke			
Mocha			

Customised colours on request

Character Selection[4]

1 Fine (160-280 mm width)	Even and calm wood structure with few small knots and fine cracks, mended by hand.
2 Medium (160-360 mm width)	Distinct wood structure with knots, shrinkage and wind cracks, mended by hand.

Up to 5% of the boards may originate from the corresponding neighboring selection.

Treatment[4]

1 Brushed	Accentuate the wood's typical grain structure by brushing out early wood.
3 Shrunk[5]	Special processes create an expressive surface with the character of naturally aged wood.

2 Medium / 1 Brushed we recommend only for selected colours, e.g. from Edition Oak: Oyster dark, Linen dark, Smoke medium and dark, Mocha medium and dark. With light colours and structured processing, knots can appear dark.

Colour between floorboards is subject to variations and display exhibits or samples, as far as these are due to the natural quality of the used material as well as customary.

[4] Available on request / selectable. Possibly not available in all colours and/or sizes. Customised products on request.

[5] Patented Schotten & Hansen surface treatment.

11/2023 B KD EN 16

Schotten & Hansen GmbH, August-Moralt-Straße 1, 86971 Peiting, Germany
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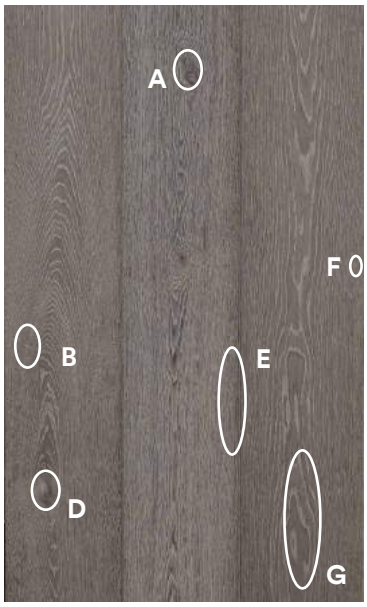
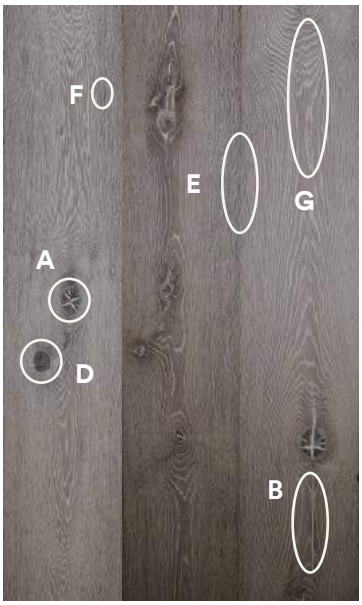
1. Fine
Even and calm wood structure, with few small knots and fine cracks, mended by hand.



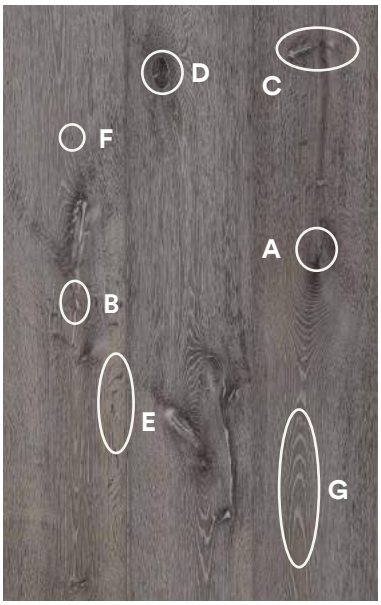
Not included: Splay knots, moon rings

2. Medium
Distinct wood structure, with knots, shrinkage and wind cracks, mended by hand.



Not included: Splay knots

3. Coarse
Very lively wood structure, with selected knots, distinctive shrinkage and wind cracks, mended by hand.



Characteristics

Description

A Knot (intergrown)

Knots firmly intergrown together with the wood tissue. The cracks in a knot are filled by hand.

B Cracks

Cracks caused by e.g. growth stresses or mechanical impacts such as wind, frost or dry weather periods are filled by hand, using a specially produced putty, colour matched to the wood colouration.

C Splay knots

When a branch is cut along its longitudinal axis, this results in a splay knot, stretching out from the core.

D Loose knots

A knothole happens when a knot separates from the wood tissue and drops out. These holes are manually filled with matching wooden implants.

E Medullary rays

The flakes are created by the medullary rays of a tree that formerly provided it with water and nutrients. Transversely running rays are more frequently represented in both the medium and coarse grades.

F Pinknots

Very small knots, which appear in the form of dots, occassionally in close arrangements in the medium and coarse grade selections.

G Cathedral

The wood pores follow the consecutive annual rings. In the medium and coarse selection grades, the otherwise conical curves may also take a wild coarse.

H Moon rings

Late frost periods can cause the formation of moon rings, which appear as visible light rings in the cross-section. These rings occur more often in the medium and coarse grades, which are not depicted in the images above.

The above images symbolise the respective characteristics. These characteristics may appear slightly differently, depending on the chosen treatment and colouration, among other factors. Please note, up to 5% of your order quantity can include planks from an adjacent grade selection.

11/2023 B KD EN 16

Short Board

Further Information

Indoor climate and wooden floor
Wood is a natural material that is adjusting to the indoor climate. Wood absorbs moisture from the air and releases it again.

We would like to point out that during the heating period, the floorboards might strongly dry out and thus develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.
With the maintenance of a comfortable and healthy indoor climate of 20° C and 50% relative humidity during the heating season, you can largely avoid the negative effects of this natural phenomena.
Thermal- and hygrometers control the air in your rooms easily. In case the air is too dry, suitable measures for humidifying the air must be taken. We recommend you a humidifier control - hygrostat for obtaining a constant air humidity.

Installation should be carried out professionally by a trained Schotten & Hansen partner.

Bonding
The preparation of the subsoil is to be carried out in accordance with the guidelines of the adhesive manufacturer and relevant DIN standards.

For the bonding of all Schotten & Hansen floor products we recommend a solvent-free and elastic adhesive.

In the process of glueing, full bonding to the subsoil and a sufficient contact pressure during the setting has to be ensured.

Bonding on Screed
First, an inspection of the subsoil and the application requirements has to be conducted according to VOB Part B DIN 1961 and Part C DIN 18356.
Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

11/2023 B KD EN 16

Schotten & Hansen

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Flooring

Long Board

11/2023 B LD EN 15

Schotten &Hansen

Nature Refined.

Long Board

Product specifications

Description	Construction: Top-Layer: Carrier:	Three-layer engineered board Oak veneer, other types of wood on request Softwood
Length[1]	2450-5000 mm, in steps of 500 mm[2]; short length share (1450 mm, 1950 mm) up to 10%.	
Width[1]	160-360 mm in fine selection 160-420 mm in medium selection 200-360 mm in coarse selection. In steps of 10 mm	
Thickness[1]	19 mm[4] (± 0.5 mm)	
Top-layer[1]	4.5 mm (± 0.5 mm); glued waterproof and formaldehyde-free.	
Surface	Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment. Avoid strongly acidic and alkaline agents. Slip resistance PTV according to BS 7976-2:2002 - mean value 54 (low slip hazard under dry conditions); test specimen in fine selection and treatment machining.	
Wood moisture content	On delivery: approx. 8 % ex works. A special drying process during production reduces shrinkage and swelling behaviour of the floor boards after installation.	
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC-emission according to AgBB scheme < 1 mg / m³. 	
Fire behaviour classification	Cfl – s1 according to EN 13501-1:2010	
Profile processing	Boards are grooved and tongued on the long sides, Face sides of the boards are grooved. Chamfer: approx. 0.7 mm, 30°. Other chamfer options on request.	
Installations	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing the floorboards on screed.	
Underfloor heating	Schotten & Hansen floorboards are well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity λ [W/(m*K)]: overall construction with top layer oak 0.12 (calculated according to EN 14342:2013). Heat contact resistance R [m²K/W]: overall construction 0.15 (calculated according to EN 14342:2013). Maximum surface temperature of the floorboards: 29° C.	
Cleaning & Care	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com	
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.	

[1] Distribution of lengths and widths according to production requirements.
[2] Possible fixed lenghts: 2450, 3000, 3500, 4000, 4500, 5000 mm
[4] Other total thickness of boards possible on request.

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11/2023 B LD EN 15

Long Board

Edition Oak

	light	medium	dark
Pebble Stone			
Oyster			
Linen			
Smoke			
Mocha			

Special colour possible on request.

Character Selection[5]

1 Fine (160-360 mm width)	Even and calm wood structure, with few small knots and fine cracks, mended by hand.
2 Medium (160-420 mm width)	Distinct wood structure, with knots, shrinkage and wind cracks, mended by hand.
3 Coarse (200-360 mm width)	Very lively wood structure, with selected knots, distinctive shrinkage and wind cracks, mended by hand.

Up to 5% of the boards may originate from the corresponding neighboring selection.

Treatment[5]

1 Brushed	Accentuate the wood's typical grain structure by brushing out early wood.
2 Hand-planed	A landscape of small ridges and hollows award the boards a wavy structure for a vivid appearance.
3 Shrunk[6]	Special processes create an expressive surface with the character of naturally aged wood.

2 Medium / 1 Brushed we recommend only for selected colours, e.g. from Edition Oak: Oyster dark, Linen dark, Smoke medium and dark, Mocha medium and dark. With light colours and structured processing, knots can appear dark.

Colour between floorboards is subject to variations and display exhibits or samples, as far as these are due to the natural quality of the used material as well as customary.

[5] Available on request / selectable. Possibly not available in all colours and/or sizes. Customized products on request.

[6] Patented Schotten & Hansen surface treatment.

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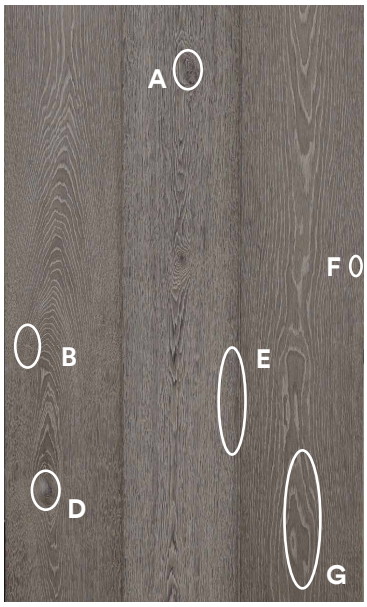
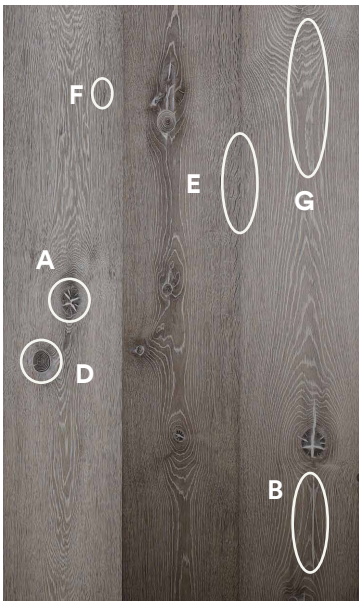
11/2023 B LD EN 15

1. Fine
Even and calm wood structure, with few small knots and fine cracks, mended by hand.



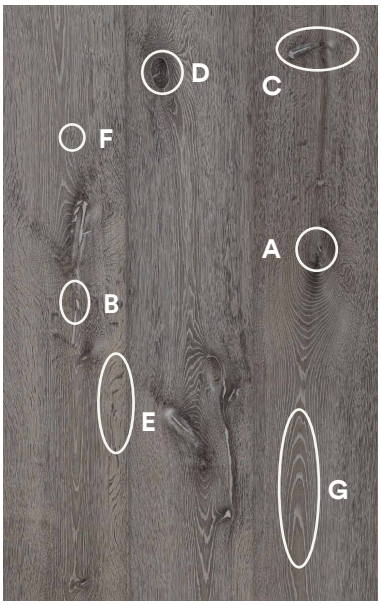
Not included: Splay knots, moon rings

2. Medium
Distinct wood structure, with knots, shrinkage and wind cracks, mended by hand.



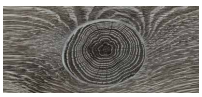
Not included: Splay knots

3. Coarse
Very lively wood structure, with selected knots, distinctive shrinkage and wind cracks, mended by hand.



Characteristics

Description

A Knot (intergrown)		Knots firmly intergrown together with the wood tissue. The cracks in a knot are filled by hand.
B Cracks		Cracks caused by e.g. growth stresses or mechanical impacts such as wind, frost or dry weather periods are filled by hand, using a specially produced putty, colour matched to the wood colouration.
C Splay knots		When a branch is cut along its longitudinal axis, this results in a splay knot, stretching out from the core.
D Loose knots		A knothole happens when a knot separates from the wood tissue and drops out. These holes are manually filled with matching wooden implants.
E Medullary rays		The flakes are created by the medullary rays of a tree that formerly provided it with water and nutrients. Transversely running rays are more frequently represented in both the medium and coarse grades.
F Pinknots		Very small knots, which appear in the form of dots, occassionally in close arrangements in the medium and coarse grade selections.
G Cathedral		The wood pores follow the consecutive annual rings. In the medium and coarse selection grades, the otherwise conical curves may also take a wild coarse.
H Moon rings		Late frost periods can cause the formation of moon rings, which appear as visible light rings in the cross-section. These rings occur more often in the medium and coarse grades, which are not depicted in the images above.

The above images symbolise the respective characteristics. These characteristics may appear slightly differently, depending on the chosen treatment and colouration, among other factors. Please note, up to 5% of your order quantity can include planks from an adjacent grade selection.

11/2023 B LD EN 15

Long Board

Further Information

Indoor climate and wooden floor
Wood is a natural material that is adjusting to the indoor climate. Wood absorbs moisture from the air and releases it again.

We would like to point out that during the heating period, the floorboards might strongly dry out and thus develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.
With the maintenance of a comfortable and healthy indoor climate of 20° C and 50% relative humidity during the heating season, you can largely avoid the negative effects of this natural phenomena.
Thermal- and hygrometers control the air in your rooms easily. In case the air is too dry, suitable measures for humidifying the air must be taken. We recommend you a humidifier control - hygrostat for obtaining a constant air humidity.

Installation should be carried out professionally by a trained Schotten & Hansen partner.

Bonding
The preparation of the subsoil is to be carried out in accordance with the guidelines of the adhesive manufacturer and relevant DIN standards.

For the bonding of all Schotten & Hansen floor products we recommend a solvent-free and elastic adhesive.

In the process of glueing, full bonding to the subsoil and a sufficient contact pressure during the setting has to be ensured.

Bonding on Screed
First, an inspection of the subsoil and the application requirements has to be conducted according to VOB Part B DIN 1961 and Part C DIN 18356.
Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

11/2023 B LD EN 15

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Flooring

Parquet Three-Layer

01/2024 B 3S EN 17

Schotten & Hansen

Nature Refined.

Parquet Three-Layer

Product specifications

Description	Construction: Top-layer: Bottom-layer:	Three-layer engineered board Oak veneer, other type of wood on request Softwood
Length x Width	500 × 100 mm / 600 × 120 mm / 700 × 140 mm Chevron 45°: 400 × 100 mm / 480 × 120 mm / 560 × 140 mm as drawing	
Thickness[1]	19 mm (± 0.5 mm)[2]	
Top-layer	4.5 mm (± 0.5 mm); glued waterproof and formaldehyde-free.	
Surface	Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment. Avoid strongly acidic and alkaline agents.	
Wood moisture content	On delivery: approx. 8 % ex works A special drying process during production reduces shrinkage and swelling behaviour of the floorboards after installation.	
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC-emission according to AgBB scheme < 1 mg / m³. 	
Fire behaviour classification	Cfl – s1 according to EN 13501-1:2010	
Profile processing	Boards grooved and tongued at the long sides. Face sides are grooved. Chamfer: 0.7 mm, 30°, other chamfer options on request; Possible installation patterns: Chevron 45°, Herringbone 90°	
Installation	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing the floorboards on screed.	
Underfloor heating	Schotten & Hansen parquet is well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity λ [W/(m*K)]: top-layer oak 0.12 (calculated according to EN 14342:2013) Heat contact resistance R [m²K/W]: top-layer oak 0.15 (calculated according to EN 14342:2013). Maximum surface temperature of the floorboards: 29° C.	
Cleaning & Care	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com	
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.	

[1] Dimensions may vary slightly due to production.
[2] Other overall thicknesses possible on request.

01/2024 B 3S EN 17

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Parquet Three-Layer

Edition Oak

	light	medium	dark
Pebble Stone			
Oyster			
Linen			
Smoke			
Mocha			

Customised colours on request

Character Selection²

1 Fine	Even and calm wood structure with few small knots and fine cracks, mended by hand.
2 Medium	Distinct wood structure with knots, shrinkage and wind cracks, mended by hand.

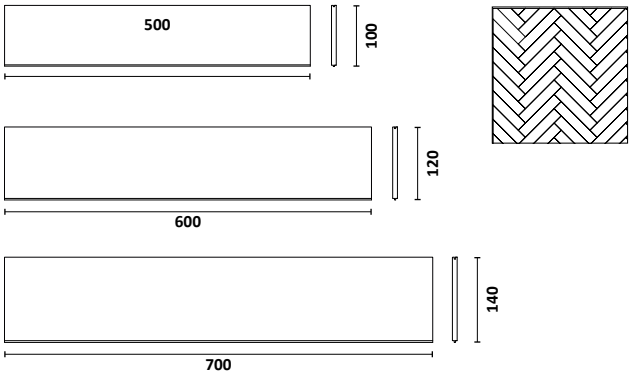
Up to 5% of the boards may be from the adjacent grade.

Treatment²

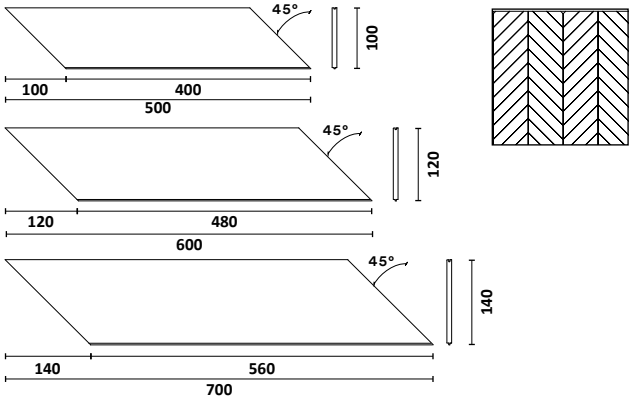
1 Brushed	Accentuate the wood's typical grain structure by brushing out early wood.
3 Shrunk³	Special processes create an expressive surface with the character of naturally aged wood.

2 Medium / 1 Brushed we recommend only for selected colours, e.g. from Oak Edition ²¹: Oyster dark, Linen dark, Smoke medium and dark, Mocha medium and dark.

Version 1 Herringbone, 90° (dimensions in mm)⁴



Version 2 Chevron, 45° (dimensions in mm)⁴



Subject to variations in colour between floorboards and display exhibits or samples, as far as these are due to the natural quality of the used material as well as customary.

² Available on request / selectable. Possibly not available in all colours and/or sizes. Customised products on request (minimum quantity).

³ Patented Schotten & Hansen surface treatment.

⁴ Other angle on request.

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01/2024 B 3S EN 17

Parquet Three-Layer

Further Information

Indoor climate and wooden floor
Wood is a natural material that is adjusting to the indoor climate. Wood absorbs moisture from the air and releases it again.

We would like to point out that during the heating period, the floorboards might strongly dry out and thus develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.
With the maintenance of a comfortable and healthy indoor climate of 20° C and 50% relative humidity during the heating season, you can largely avoid the negative effects of this natural phenomena.
Thermal- and hygrometers control the air in your rooms easily. In case the air is too dry, suitable measures for humidifying the air must be taken. We recommend you a humidifier control - hygrostat for obtaining a constant air humidity.

Installation should be carried out professionally by a trained Schotten & Hansen partner.

Bonding
The preparation of the subsoil is to be carried out in accordance with the guidelines of the adhesive manufacturer and relevant DIN standards.

For the bonding of all Schotten & Hansen floor products we recommend a solvent-free and elastic adhesive.

In the process of glueing, full bonding to the subsoil and a sufficient contact pressure during the setting has to be ensured.

Bonding on Screed
First, an inspection of the subsoil and the application requirements has to be conducted according to VOB Part B DIN 1961 and Part C DIN 18356.
Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

01/2024 B 3S EN 17

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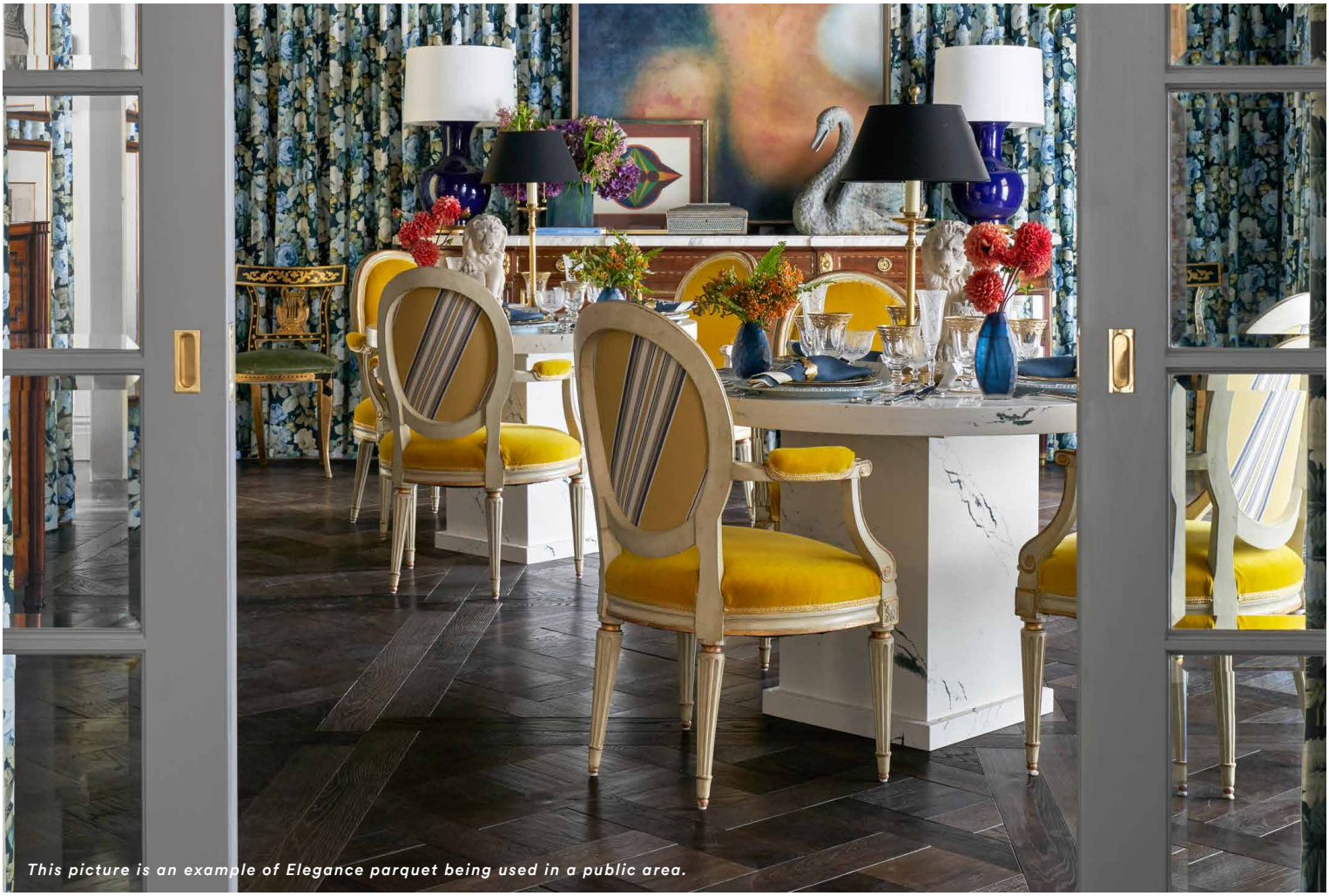
Parquet Elegance



This picture is an example of Elegance parquet being used in a public area.

05/2023 B TP DE 14

Schotten &Hansen

Nature Refined.

Parquet Elegance

Product specifications

Description	Construction: Top-Layer: Carrier:	Multi-layer engineered board Oak veneer Birch plywood
Length x Width	800 × 800 mm	
Thickness	18 mm (± 0,5 mm)	
Top-layer	3.5 mm (± 0,5 mm)	
Surface	Schotten & Hansen pre-finished, permeable surface. Surface treatment with natural oils, resins and waxes. Schotten & Hansen surfaces can be regenerated without sanding or mechanical treatment. Avoid strongly acidic and alkaline agents. Slip resistance PTV according to BS 7976-2:2002 - mean value 54 (low slip hazard under dry conditions); test specimen in fine selection and treatment machining.	
Wood moisture content	On delivery: approx. 8 % ex works.	
Emissions	Formaldehyde emission according to EN 14342: Class E1, measured as EN 717- 1 VOC-emission according to AgBB scheme < 1 mg / m³. 	
Fire behaviour classification	Dfl – s1 according to EN 14342:2013	
Profile processing	Groove on all sides. Chamfer: approx. 0.7 mm, 30°. Connection by means of external springs (11 mm wide, 5 mm thick).	
Installations	Full bonding with permanently elastic adhesive. Installation according to DIN 18356. Requirement on subsoil: Installation-ready subsoil according to DIN 18356 and DIN 18202 chart 3, line 4 increased requirements. Recommended adhesive: BONA Quantum or adhesive of equal quality (adhesive used for installation has to be approved by general building inspectorate); suitable for gluing on screed.	
Underfloor heating	Schotten & Hansen parquet are well-suited for use in combination with underfloor heating with hot water or electrically. Heat conductivity λ [W/(m*K)]: top layer oak 0.169 (calculated according to EN 14342:2013) Heat contact resistance R [m²K/W]: top layer oak 0.116 (calculated according to EN 14342:2013) Maximum surface temperature: 29° C.	
Cleaning & Care	Schotten & Hansen cleaning and caring products. Schotten & Hansen recommends the use of a floor polishing machine. For further information please see the cleaning and caring instructions or contact our service department: service@schotten-hansen.com	
Recycling	Schotten & Hansen wood products are recyclable according to the waste wood regulation category A2 and can therefore be reused for the production of wood-based materials.	

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Parquet Elegance

Edition Oak

	light	medium	dark
Pebble Stone			
Oyster			
Linen			
Smoke			
Mocha			

Special colour possible on request.

Character Selection

1 Fine	Uniform, calm wood structure with small knots and discreet cracks, repaired by hand. re-paired by hand. Mirror and various grain patterns are possible. Putty colour may be slightly darker in light colours depending on use. Product specific grading.
2 Medium	Distinct wood structure with knots, shrinkage and wind cracks. Mirrors and different grain gradients are possible. Depending on use, the colour of the putty in light colours may slightly dark in light colours.

Treatment

1 Brushed	Bring out the grain of the wood by brushing out the early parts of the wood.

Colour between floorboards is subject to variations and display exhibits or samples, as far as these are due to the natural quality of the used material as well as customary.

05/2023 B TP DE 14

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Parquet Elegance

Further Information

Indoor climate and wooden floor
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Bonding
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Bonding on Screed
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Due to the large lengths and widths of some flooring products, increased care is required for the evenness of the subsoil.

Installation on underfloor heating
All Schotten & Hansen long boards are to be fully bonded with elastic adhesive to underfloor heating. Prior to this, a thorough inspection of the heating screed's readiness for installation has to be carried out – in particular the heating protocol and the details of test points (pursuant to DIN standards) have to be documented by the screed layer. The adhesive must be suitable for bonding on an underfloor heating system.

Please observe the maximum surface temperature of 29° C.
Additionally, during a heating-period the air humidity should be improved. Otherwise the floorboards might strongly dry out and develop shrinkage cracks. Cracks caused by low air humidity during the heating period do not justify complaint.

Important measurements prior to installation:
- Let the unpacked workpieces acclimatise in the final room conditions for approx. one week until the equilibrium moisture content is reached.
- Switch off underfloor heating three days before installation.
- Measure moisture content of the screed.
- Keep room climate constant at 45 % ± 5 % relative air humidity. This also applies for the next few days after the installation (during this time increase underfloor heating by 5° C per day).
- Prepare a heating protocol.

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