

M 500 V Silence modular collection

**Standard forms that
are not constantly
reviewed and updated
become obsolete**

Walter Gropius

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M 500 V Silence

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M 500 V Silence oak board
in distinctive natural
design and stone slate



Property planners have been waiting for this flooring: wear-resistant and impact-sound insulated, with modules that can be combined as desired using five formats and 61 premium designs.



Andreas Kopf
Managing Director

With the M 500 V Silence modular collection which has once again been significantly expanded we are meeting our customers' wishes for quality, modular design and flexibility. Just imagine: premium and environmentally friendly vinyl flooring which, like all our flooring, only contains plasticiser based on natural raw materials, and that offers attractive designs in five formats that can be used to plan different areas or rooms using one product in the property. No differences in installation heights, no differing recommen-

dations for adhesive from different manufacturers. And on top of this, flooring that unlike all other element flooring is wear-resistant and impact sound insulated with high capacities – all in all offering an attractive package of features which instantly thrilled lots of Debolon customers once this collection was introduced in early 2012. We have now expanded the application range for this collection once again through carefully selected new surfaces and the two new formats. Once again we have broken the mould with this

flooring without compromising our standards: new Debolon products must offer real user value and meet our high quality standards – particularly related to sustainability. The result is unique products that are unparalleled elsewhere. Do you know of any other wear-resistant modular flooring made of vinyl which contains no phthalates?

A handwritten signature in black ink, appearing to read 'A. Kopf', written on a light-colored background.

About Debolon



The office of the world-renowned architect Walter Gropius in Bauhaus Dessau. The director of Bauhaus had Triolin, one of the first plastic floorings, laid here. We are sure: Nowadays, Gropius would rely on premium flooring made of vinyl.

“Simplicity in multiples” Why Walter Gropius would be inspired by our new modular flooring ...

World-famous architect Walter Gropius who co-founded classic modern architecture and was founding director of the Bauhaus in Dessau in March 1926 demanded “simplicity in multiples” as he explained the basic principles of Bauhaus production in an essay.

Gropius demanded functional products, wanted to implement new technologies for better living and working conditions and not least postulated that products also had to be “durable” and “beautiful”.

He would certainly have been pleased with flexible highly durable and high-quality floor covering which designers and architects can lay in different areas of a building, without having to compromise on convenient features such as wear resistance and impact sound insulation.

You may be wondering why we are referring to greatness that was not only making headlines in Dessau over 80 years ago in a catalogue with products from the 21st Century? Surely not because Debolon was founded in 1929,

but rather because the Bauhaus is still our source of inspiration today – not least because many employees pass by the Bauhaus or the world-famous master houses daily on their way to the Debolon factory. The Bauhaus was only able to become

an academy of world renown and a catalyst for developing new living forms because it questioned traditional rules on a continuous basis and was constantly on the lookout for new materials, forms and colours. In the composition mentioned above Walter Gropius above all highlighted the laboratory nature of the Bauhaus: only by looking for new and improved things with persistence can we achieve enduring change. This is what inspires us in our actions. We do not imitate the Bauhaus or just release “Bauhaus collections”. We know that the 1920s are long gone. But we frequently ask ourselves; “How would Gropius decide to act today?”. And in the same way that Gropius did not use parquet or stone flooring or linoleum and cork in the 1920s in the Bauhaus, but instead used triolin as the new artificial product of the time for

flooring, he would presumably use modern vinyl flooring today, which provides the architect with maximum design options and at the same time has functional features that cannot be beaten. Even if Gropius did not know words such as “recyclable” at that time, we are certain that the persuasive environmental features of our products would have been very important to him.

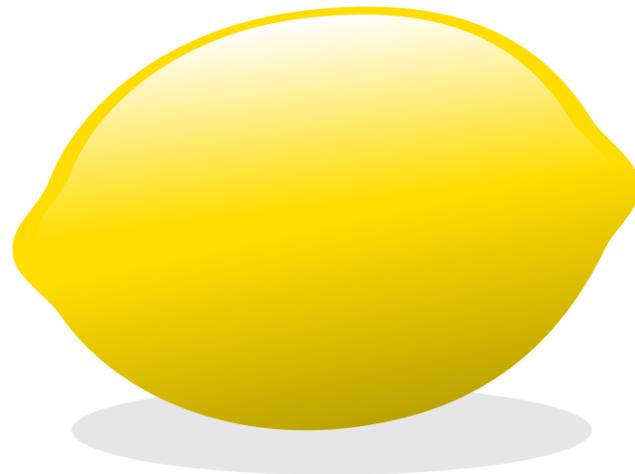


The company

Around 100 Debolon employees develop and product aesthetic, functional and durable floorings made of vinyl. We rely 100% on quality “made in Germany”. We understand the key to quality to be sustainable production with responsible use of resources. We consider Debolon to be a frontrunner in the development of environmentally compatible and renewable vinyl flooring.

The world's "greenest" vinyl flooring. Also available in red, blue, yellow, grey or black ...

Environmental world premiere in Dessau.
Debolon only uses plasticiser based on
natural raw materials.



The Debolon Environment Charter

Vinyl flooring is rugged and therefore durable. They offer endless design possibilities. Vinyl flooring is a lasting and durable investment in quality of life and work. They are also impressive from an environmental point of view – if the product comes from a quality manufacturer like Debolon. Our environmental management has been certified in accordance with ISO

14001 since 2011. Our developers have now added a fifth essential point to the Debolon Environment Charter:

Since 2012 we have been using plasticisers made exclusively from natural raw materials.

We were the world's first manufacturer to migrate our entire produc-

tion in January 2012. We do not use phthalates and now only use plasticisers based on natural raw materials. The most important component is citric acid ester. This is not extracted from lemons but rather from domestic sugar beet. Independent testers are highly enthused.

We only produce products with a long lifetime that are fully recyclable.

The Debolon surface finishes debo XPS® and debo XPM® are complete systems whose polymers are interlinked with the transparent wear layer. This dense layer gives the flooring permanent protection. The flooring does not need any preparatory treatment. This reduces maintenance costs, as a smaller amount of cleaning agent is used. The long lifetime ensures that there are fewer renewal cycles and therefore less waste. And where Debolon flooring is upgraded then all our floors can be completely recycled.

We are mindful of the lowest possible emission values.

Our products are regularly tested by independent institutions. In monitoring tests the measured emissions fall

below the limit values in the current AgBB* scheme prescribed by law. Our products bear the Indoor Air Comfort Gold label. This label combines all European evaluation systems for low-emission products into one quality mark and, at the same time, sets out considerably lower limits than legislation or eco labels such as Der Blaue Engel (Blue Angel). A product with this mark meets all requirements applicable in Europe with regard to the emission of volatile organic compounds (VOC).

We use premium raw materials which are sourced locally wherever possible.

We purchase our raw materials almost exclusively from Germany. Only some 10% of materials come from other EU countries. The origin and quality of our materials can be traced. This means we can guarantee consistently high product quality. Short transport

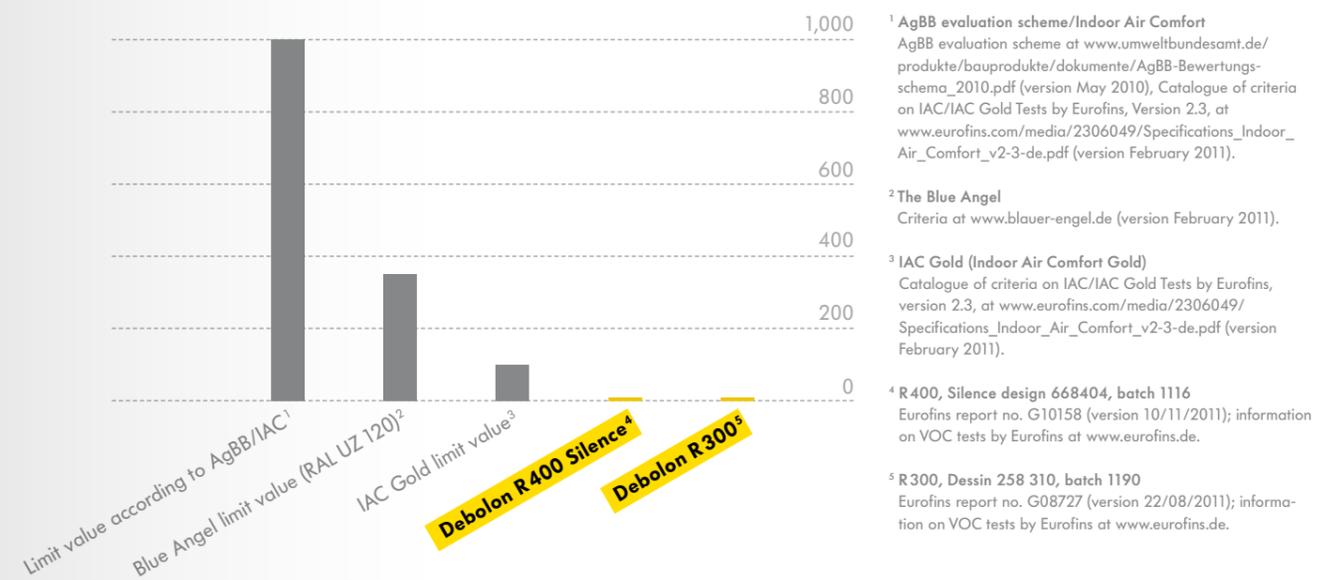
distances also mean low emissions. And our purchasing strategy improves the environmental balance of our products.

As a company with environmental management certified in accordance with ISO 14001 we don't just rely on environmentally friendly products but also on resource-saving production.

Debolon has reduced gas consumption by forty percent in its manufacturing processes. We feed the process heat generated during production into the company's heating system and use it to reprocess hot water in the plant. A special system purifies the exhaust air and reduces carbon dioxide emissions from the production plant by twenty percent. But we're not stopping there: further measures are in the pipeline.

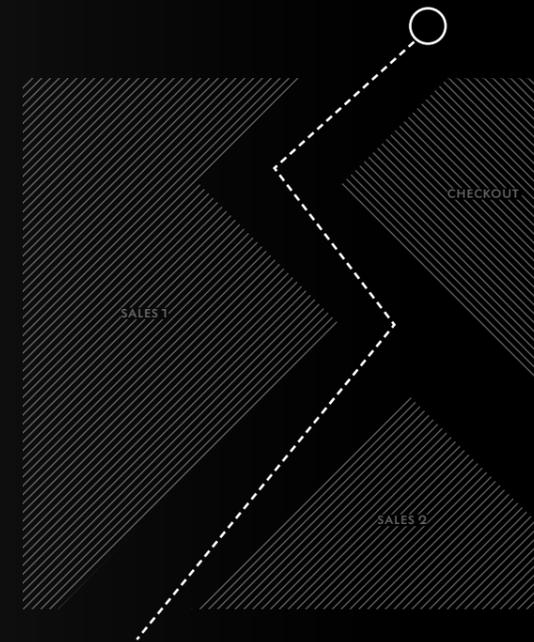
*German Commission on Construction Materials Evaluation for Health Purposes.

Emission measurement after 28 days
in µg/m³h



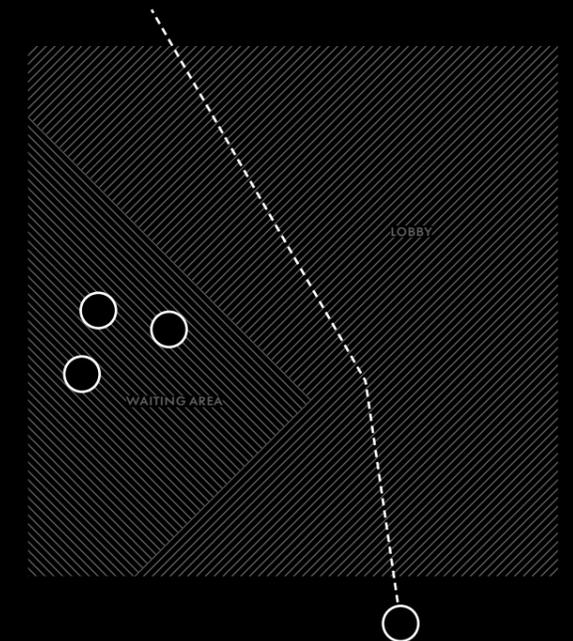
5 module sizes that can be combined as desired with 61 premium designs, 1 installation height and 100 percent impact-sound insulation and wear-resistance on every square metre = maximum flexibility in the property

Design possibilities



Walkway layout

All 61 designs in the M 500 V Silence collection can be combined as desired. The same structure and identical installation height ensure that planners can use two or three of the available designs, for instance for marking walkways and routes in the property. As such our M 500 V Silence modular collection supports orientation within the building.



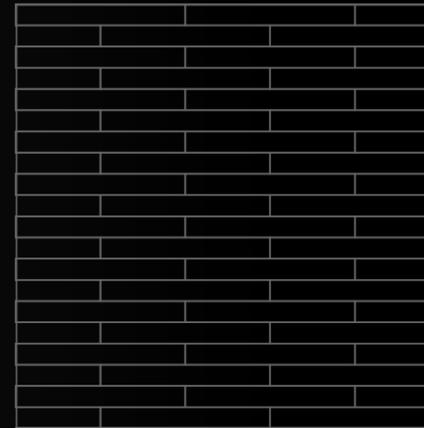
Zoning

Planners are able to identify different usage areas in the building with M 500 V Silence. For example, the lounge in the foyer in a high-quality wood look, and the walking zone in front in a slate design. Because all designs can be combined in any way, it can easily be realised with just one product. This simplifies the planning and laying process. It also makes the floors' maintenance easier – resulting in lower follow-up costs.

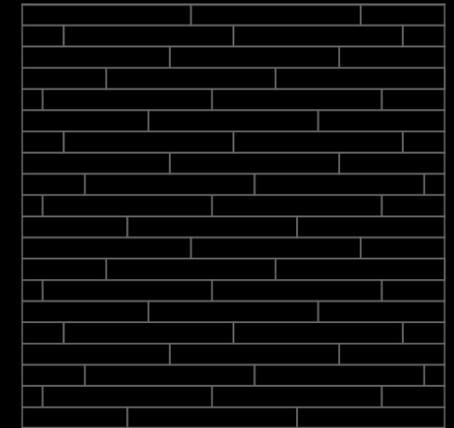


Design possibilities

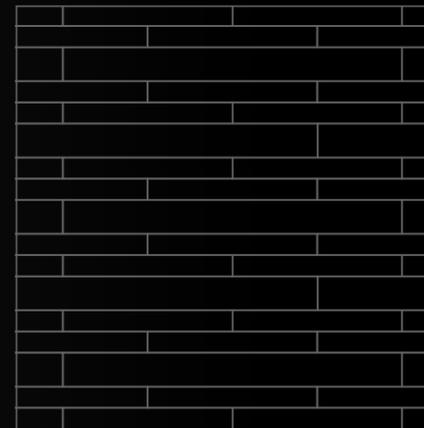
Parquet layout samples



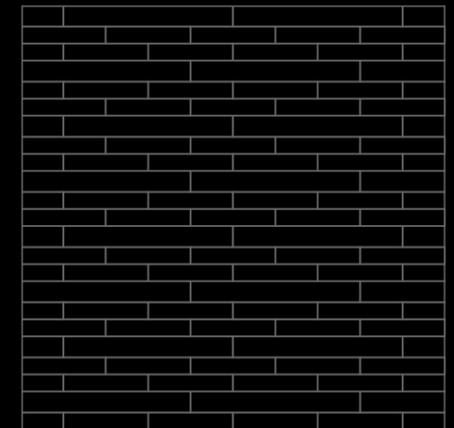
Alternate pattern
of wood designs – long board, board or strip



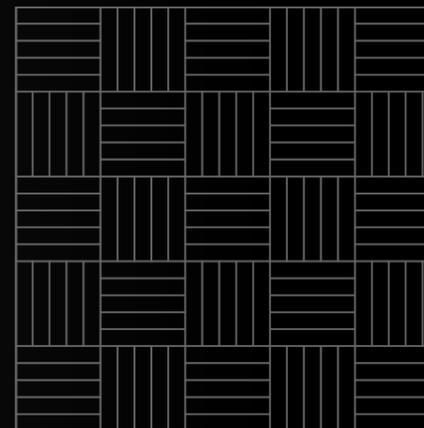
Overlay pattern
of wood designs – long board or board



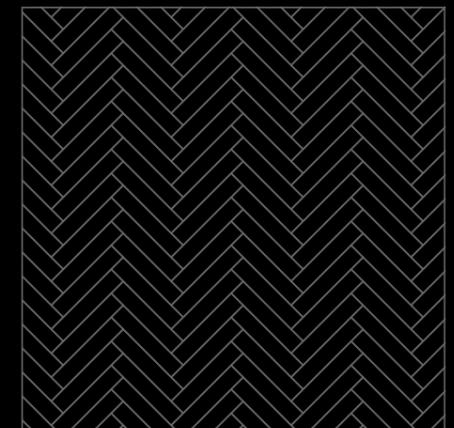
Combination 01
of wood designs – long board and board



Combination 02
of wood designs – board and strip



Panel
made of wood designs – strip

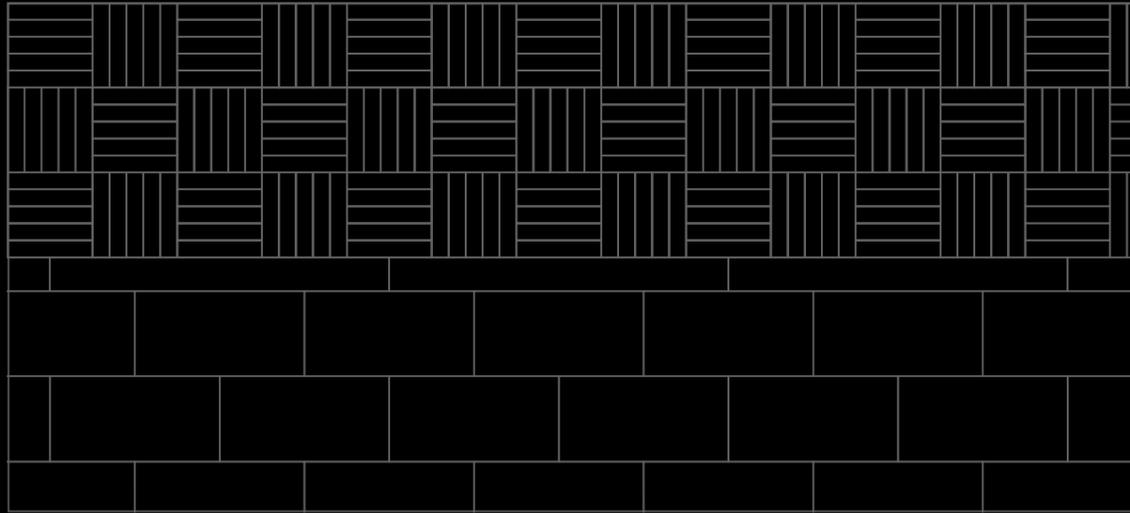


Herringbone pattern
made of wood designs – strip

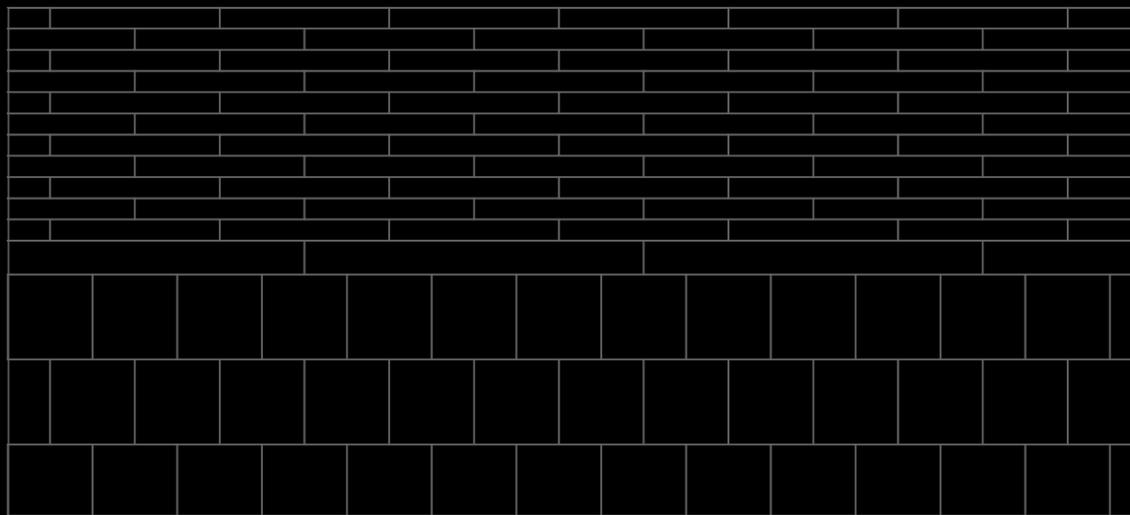
M 500 V Silence long board
made of bog oak, board made of
rustic bog oak and olive leather

Design possibilities

Zoning using combination of materials



Zoning 01
from wood designs – panel strip, long board and stone designs



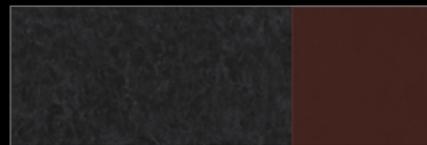
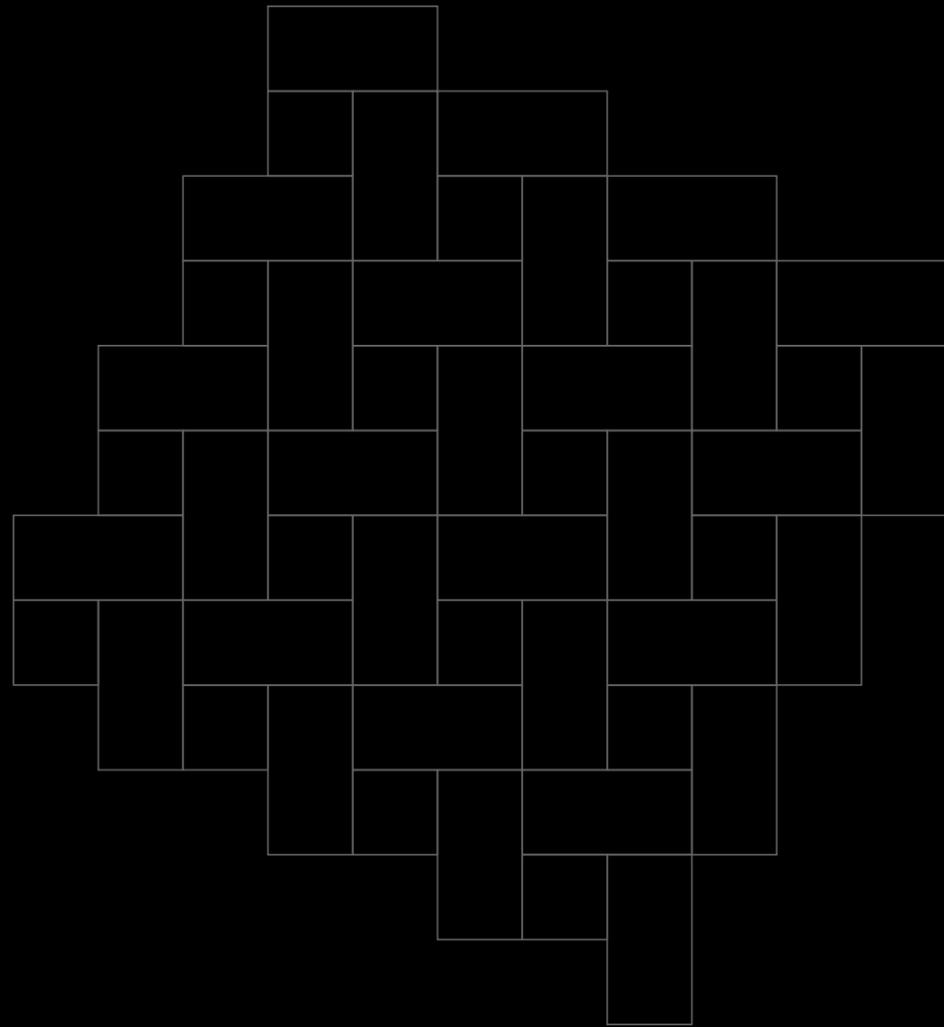
Zoning 02
from wood designs – board, long board and leather designs



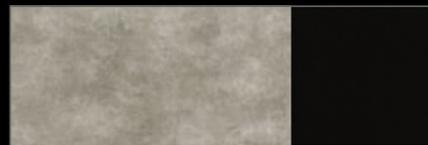
M 500 V Silence long board,
board smoked limed harmonious oak,
smoked limed harmonious oak strip
and anthracite concrete

Design possibilities

Graphic patterns



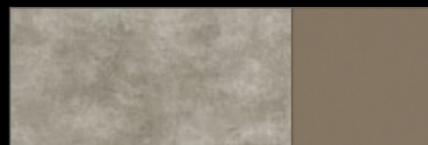
Slate
Chocolate leather



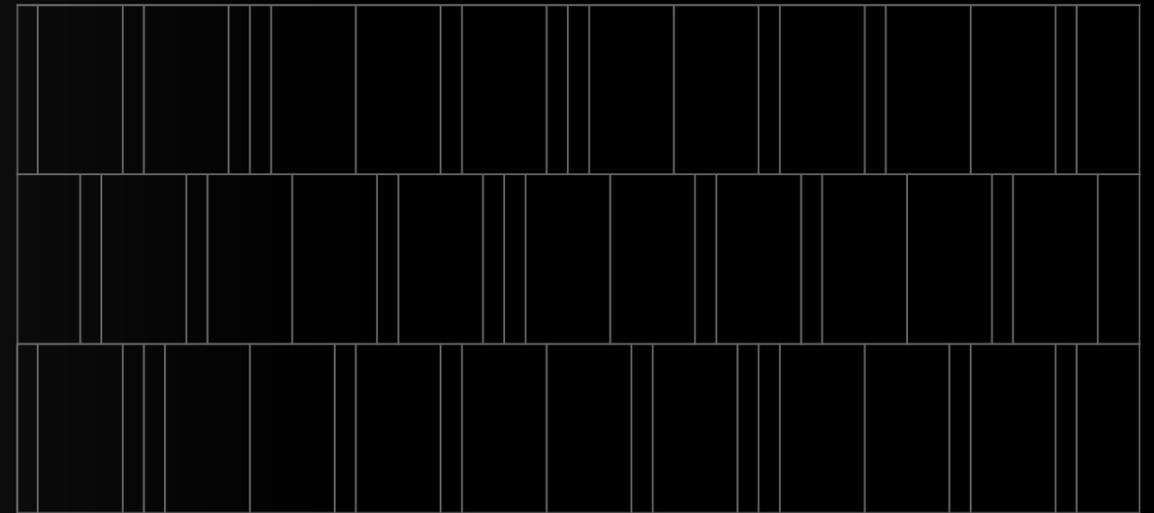
Concrete
Black leather



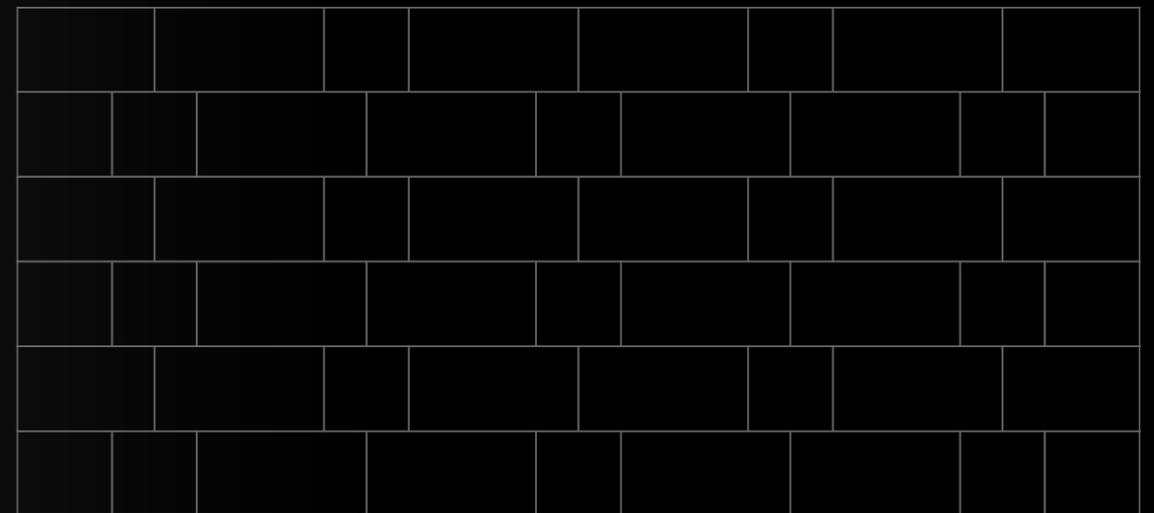
Slate
Macchiato leather



Concrete
Olive leather



Sample 01
from wood designs – board and stone designs



Sample 02
from stone and leather designs

Areas of application

Private use



Class 21: moderate/low



Class 22: normal/medium



Class 23: heavy

Commercial use



Class 31: moderate



Class 32: normal



Class 33: heavy



Class 34: very heavy

Industrial use



Class 41: moderate



Class 42: normal



Class 43: heavy

Properties



Fire behaviour
B: flame-resistant
C: flame-resistant
s1: little smoke emission
s2: limited smoke emission
fl: floorings – Label given to the floor coverings



Certified slip resistance



Castor chair resistance



Suitable for underfloor heating



Stain resistance



Colour fastness/light fastness



Impact sound reduction



Static charge less than 2kV



Chemical resistance



Debolon grants a 10-year warranty for the M 500 V Silence, R 400, R 400 Silence, R 350 Silence, R 300, R 200 Silence and R 100 Silence collections in accordance with Debolon warranty conditions.

Debolon flooring must be laid in accordance with current laying recommendations and the latest technology. Regular maintenance cleaning is crucial for cleanliness, conservation and for appearance purposes. Changes to technical data sheets are reserved. The current product descriptions can be found on the Internet at www.debolon.de.

Certifications

CE-compliant



All Debolon floors comply with EN 14041 CE.

Indoor Air Comfort Gold



The "Indoor Air Comfort Gold – certified product" Eurofins certification provides proof of compliance with all relevant and optional specifications in the EU related to emissions in indoor air.

TÜV



The Debolon quality management system is certified in accordance with DIN EN ISO 9001:2008. The quality management system is certified in accordance with DIN EN ISO 14001.

FloorScore®



The FloorScore® certificate used in the USA for floorings is used to assess room air quality and is awarded for low emissions. Products certified with FloorScore® meet the emission criteria for indoor areas of the LEED® Green Building Rating system. As such they are entitled to a deduction on LEED®. The FloorScore® seal is awarded by the Resilient Floor Covering Institute rfcI in the US.

The certificates for Debolon coverings R 350 Silence, R 300 and R 200 Silence attest to the fact that they do not release any compounds that are hazardous to room air quality.

Affiliations



Debolon is a member of the German Association of manufacturers of flexible floor coverings (FEB-EV) and of the German Sustainable Building Council, involving continuous development of all relevant areas related to integrated sustainable building.



The VinylPlus certification and labelling system is intended to assist customers in identifying sustainably produced PVC and favouring its use.

M 500 V Silence

Advantages designs and module sizes can be flexibly combined, high impact sound reduction, low reflection, slip-resistant, wear-resistant, highly durable surface finish Particularly suitable for shop fittings, hotels, offices, doctors' practices, living areas, retirement homes

Product specification	DIN EN 651
Surface type	Heterogeneous floor surface with integrated glass fibre reinforcement, fleece backing and debo XPM® surface finish

Safety requirements	Standard	Value
Fire behaviour tested in accordance with	DIN EN ISO 9239-1	
Classified in accordance with	DIN EN 13501-1	B ₁ -s1
Slip resistance/safety	DIN 51130/BGR 181	Assessment group R10
Sliding friction resistance	EN 13893	≥ 0.30
Impact sound reduction	DIN EN ISO 10140	Approx. 15 dB

Performance

Module dimensions width x length (mm)	DIN EN ISO 24342	Wood designs – Long board 200 x 2000 Wood designs – Board 125 x 1000 Wood designs – Strip 100 x 500 Leather designs 500 x 500 Stone designs 500 x 1000
Total thickness	DIN EN ISO 24346	2.6 mm
Wear layer thickness	DIN EN ISO 24340	0.5 mm
Area density	DIN EN ISO 23997	2,350 g/m ²
Dimensional change	DIN EN ISO 23999	≤ 0.1 %
Residual indentation	DIN EN ISO 24343-1	≤ 0.2 mm
Thermal resistance	DIN EN 12667	0.0226 m ² K/W
Suitable for underfloor heating		Yes up to 29°C surface temperature
Static electrical propensity	DIN EN 1815	< 2 kV
Colour fastness/light fastness	DIN EN ISO 105-B02	> 6 (Blue Wool Scale)
Chemical resistance/stain resistance	DIN EN ISO 26987	High*
Suitability for castor chairs	DIN EN 425	Yes, type W
Abrasion group	DIN EN 660-2	T
Recyclable		Yes
REACH		In accordance with current applicable requirements.

Classification	  <small>1228 890 1227 DIN EN 14041:2008</small>    <small>DIN EN 651 M 500 V Silence</small>
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Usage class	DIN EN ISO 10874	23, 33, 42
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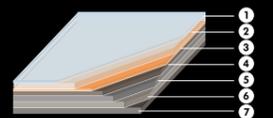


Additional suitability	
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Composition

- 1 debo XPM® surface finish
- 2 Transparent wear layer
- 3 Design print
- 4 Compact layer
- 5 Base coat with glass fibre reinforcement
- 6 Foam backing
- 7 Fleece backing



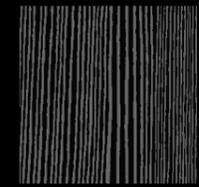
M 500 V Silence macchiato
leather and board mocha
limed striking oak

* Resistance dependent on concentration and application time; see current overview of chemicals/substances tested at www.debolon.de



Greige oak

Wood – Long board



Structure



Module dimensions
Wood designs
Long board format
200 x 2000 mm



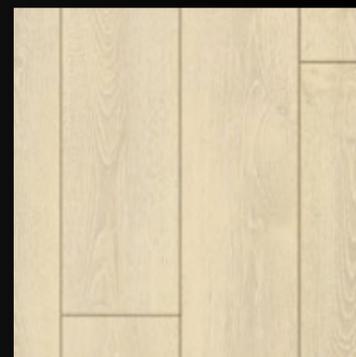
Bog oak



Smoked oak



Medium limed oak

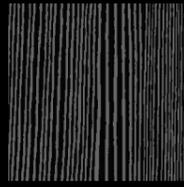


White oiled oak



Natural oak

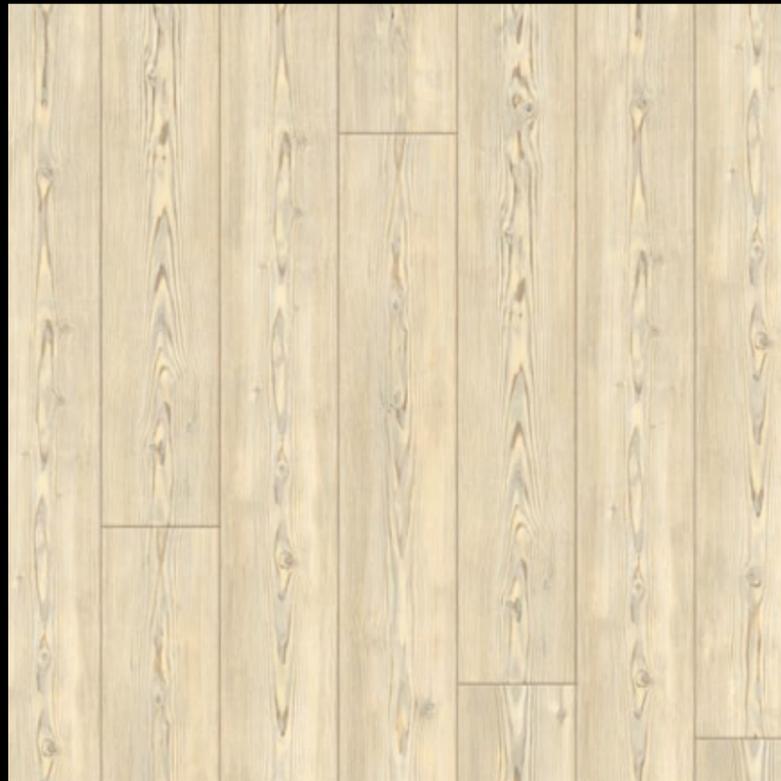
Wood – Long board



Structure



Brown limed pine



White oiled pine



Flamed pine



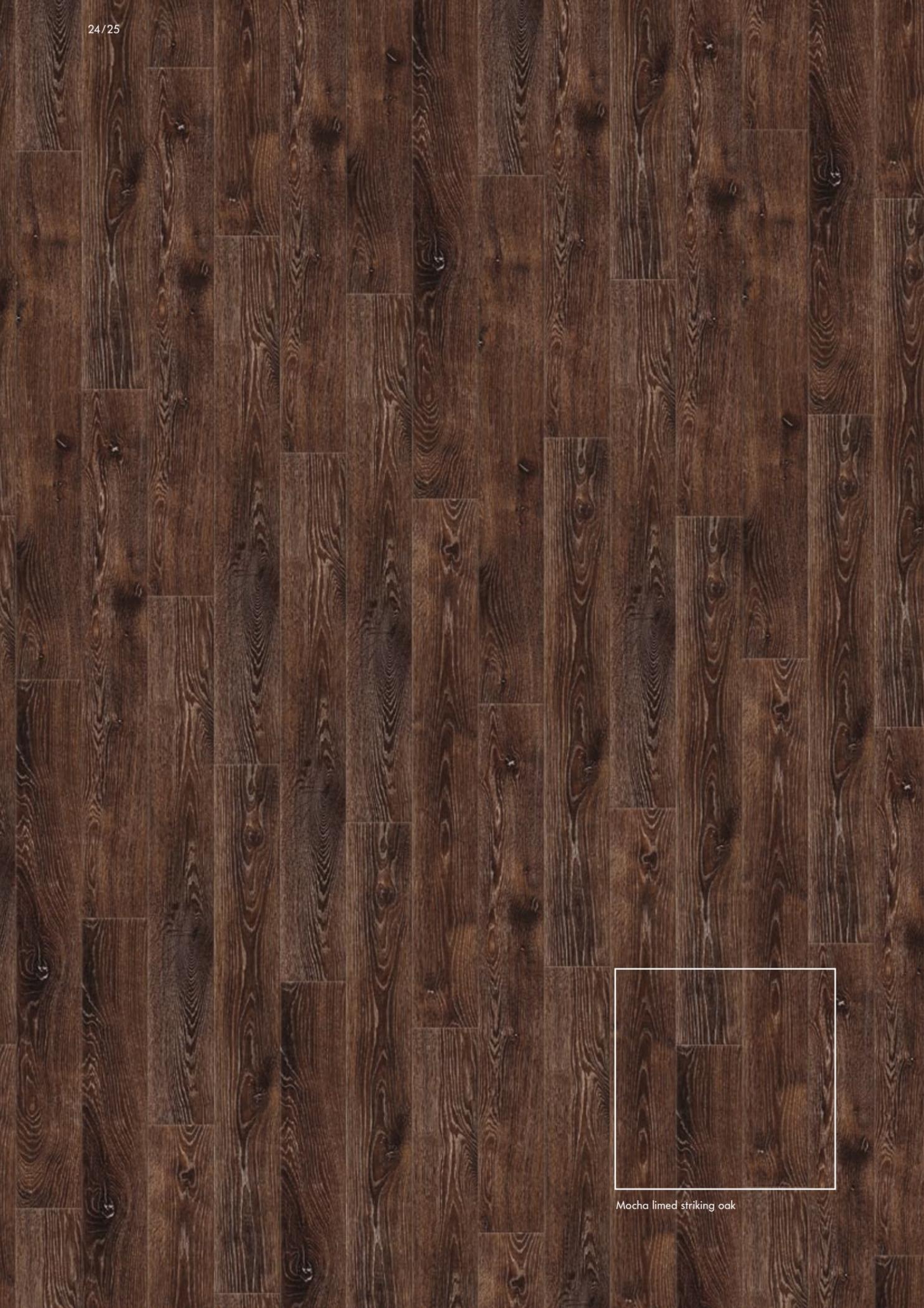
Natural pine



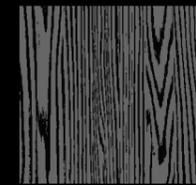
Grey pine



White pine



Wood – Board



Structure



Module dimensions
Wood designs
Board format
125 x 1000 mm



Tobacco limed striking oak



Greige striking oak



Mocha limed striking oak



Natural striking oak



Leached striking oak

Wood – Board



White oiled rustic oak



Greige rustic oak



Natural rustic oak



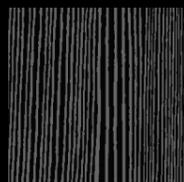
Medium limed rustic oak



Smoked rustic oak



Rustic bog oak



Structure



Structure



Medium-grey harmonious oak



Anthracite limed harmonious oak



Light harmonious oak



»P43« stained oak



Auburn harmonious oak

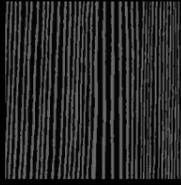


Limed harmonious oak



Smoked limed harmonious oak

Wood – Board



Structure



Natural pine



Cream birch



White oiled pine



Flamed pine



Olive teak



Brown limed pine



Rosewood



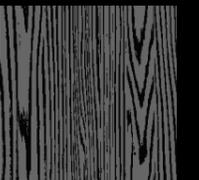
Teak



White pine

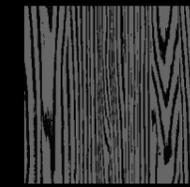


Grey pine

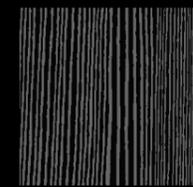


Structure

Wood – Strip



Structure



Structure
White oiled oak



Module dimensions
Wood designs
Strip format
100 x 500 mm



White oiled oak



Light harmonious oak

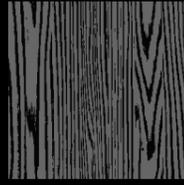


Limed harmonious oak



Auburn harmonious oak

Wood – Strip



Structure



»P43« stained oak



Medium-grey harmonious oak

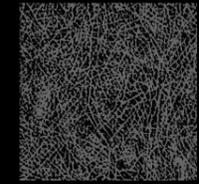


Smoked limed harmonious oak



Anthracite limed harmonious oak

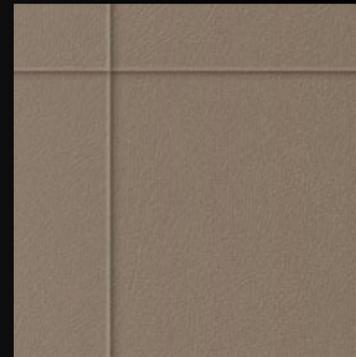
Leather



Structure



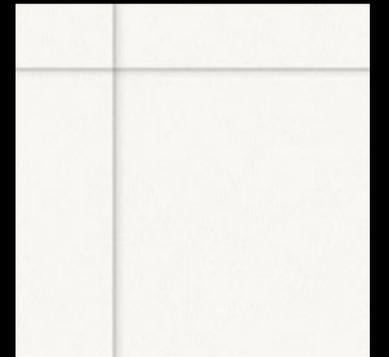
Module dimensions
Leather designs
500 x 500 mm



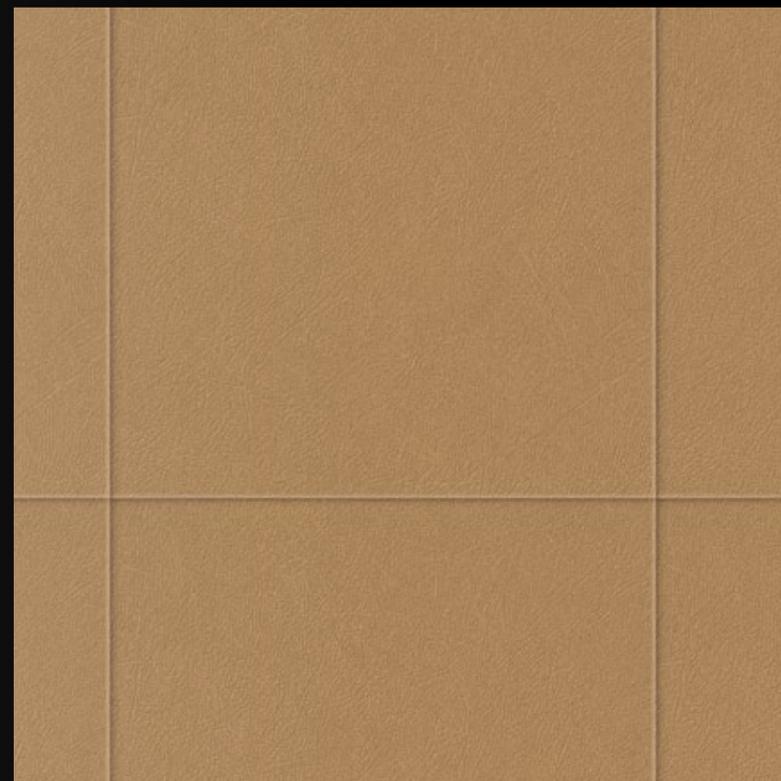
Olive



Vanilla



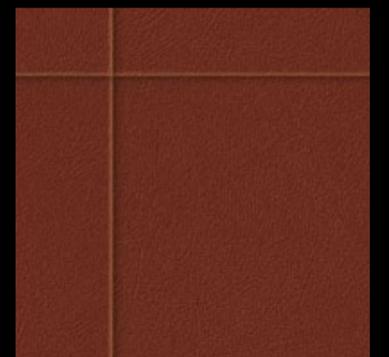
White



Macchiato



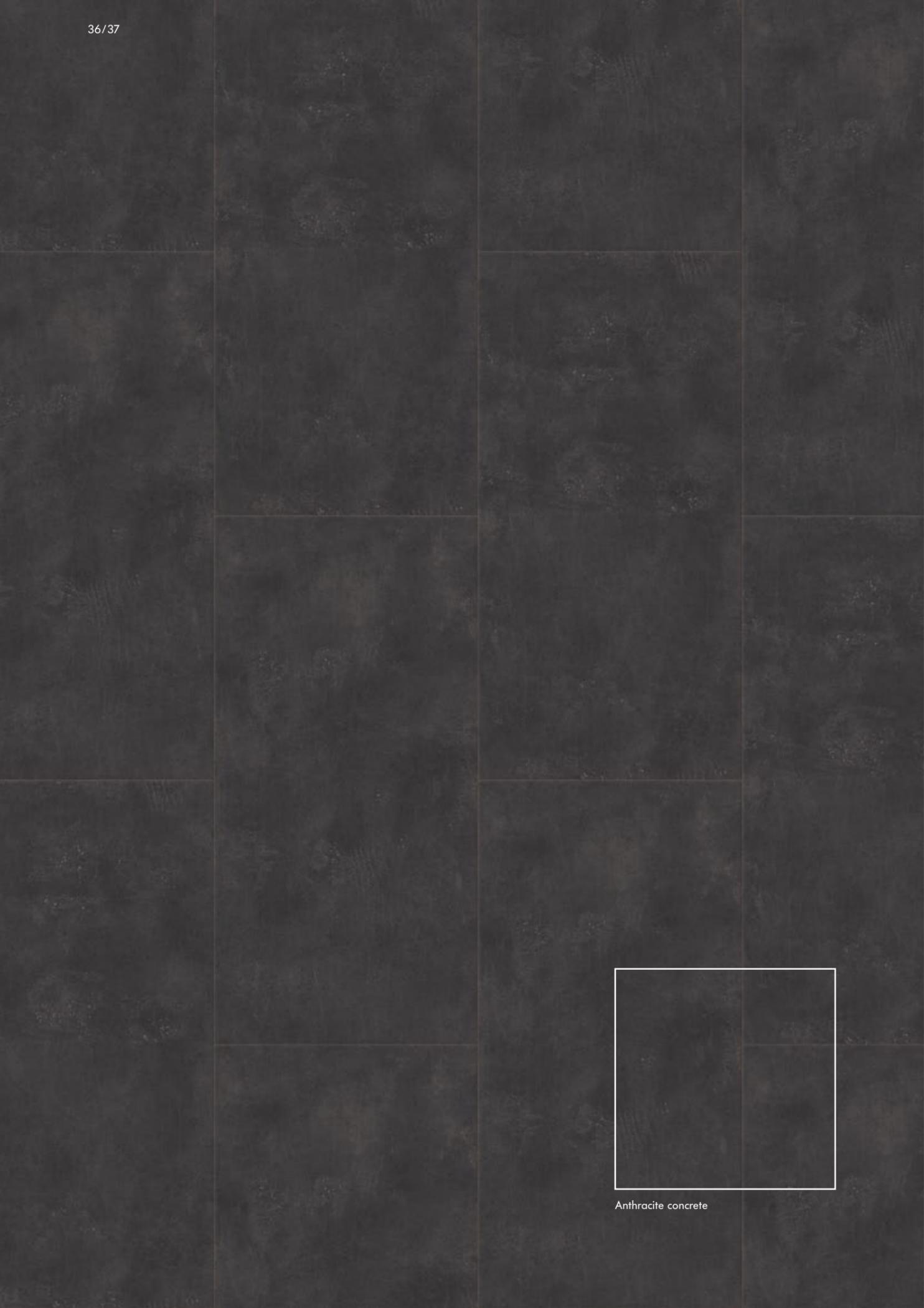
Black



Cognac

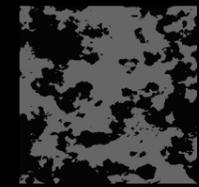


Chocolate



Anthracite concrete

Stone



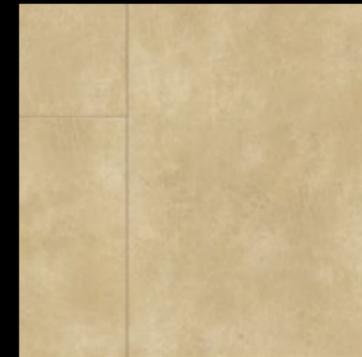
Structure



Module dimensions
Stone designs
500 x 1000 mm



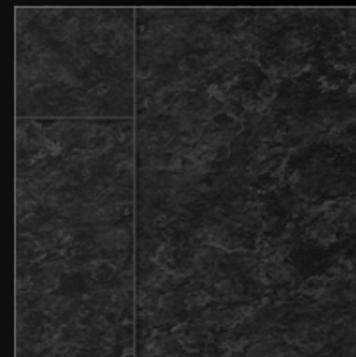
Concrete



Sandstone



Terracotta



Slate



Metallica

An overview of our collection

Wood – Long board



Bog oak Smoked oak Medium limed oak Natural oak Greige oak White oiled oak Brown limed pine



Flamed pine Natural pine White oiled pine White pine Grey pine

Wood – Board



Mocha limed striking oak Tobacco limed striking oak Natural striking oak Leached striking oak Greige striking oak Rustic bog oak Smoked rustic oak



Medium limed rustic oak Natural rustic oak Greige rustic oak Auburn harmonious oak »P43« stained oak Smoked limed harmonious oak Limed harmonious oak



Light harmonious oak White oiled rustic oak Anthracite limed harmonious oak Medium-grey harmonious oak Brown limed pine Flamed pine Natural pine



White oiled pine White pine Grey pine Teak Olive teak Rosewood Cream birch

Wood – Strip



»P43« stained oak Smoked limed harmonious oak Auburn harmonious oak Limed harmonious oak Light harmonious oak White oiled oak Anthracite limed harmonious oak



Medium-grey harmonious oak

Leather



Macchiato Vanilla Chocolate Olive Cognac Black White

Stone



Terracotta Sandstone Concrete Anthracite concrete Slate Metallica

Instructions

Any colour deviations are due to batch or printing discrepancies. We reserve the right to make changes that improve the quality or are necessary due to legal framework conditions. Regular maintenance cleaning is crucial for cleanliness, conservation and for appearance purposes. Suitably sized pressure distribution pads should be used for furnishings with special contact areas. Chemicals of all types such as solvents, medicines and disinfectants, hair dyes, tar, greases, oils, pens or felt tip pen inks etc. may result in permanent discolouration. Direct contact with the flooring from dyed rubber materials, e.g. through floor mats or rubber ends on equipment,

chair or table legs may result in permanent discolouration. Contact areas must therefore be protected as necessary. This also applies to terracotta products. Smouldering cigarette ends can cause damage to the floor surface. Direct sunlight and intense artificial light may result in fading to all types of flooring. The flooring must feature additional properties when used in special areas (e.g. offices, suitability for castor chairs). Pay attention to the classifications according to areas of application for this.

Our warranty conditions and laying and maintenance instructions are available at www.debolon.de



Use our service for hand samples at www.debolon.de or call +49 340 6500-400.

You can also order our additional catalogues

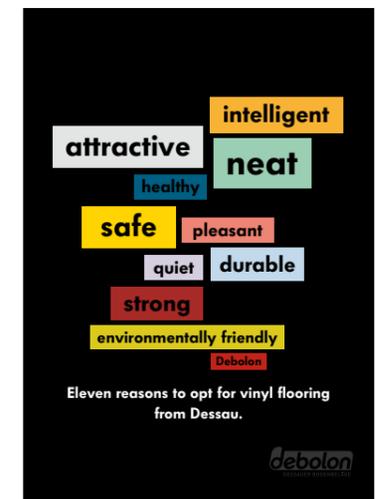
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