

dukta[®]
flexible wood

2021

WE SUPPLY WOOD PERFECTION IN SERIES.



KOLAR
WOOD ELEMENTS

dukta® - More flexibility with wood

Visual and technical aspects opening

With the dukta® design panel we provide an additional ecological product for indoor use, creating more value for eyes & ears. dukta® panels provide a visual and audible advantage due to their ductility and transparency as in addition to the visually appealing appearance, dukta® panels are characterized by their sound-absorbing effect.

The dukta® panels are wood-based panels incised on one or two sides. The flexibility of the panels is achieved through a patented carving technique. The panels are particularly suitable for wall and ceiling applications, straight and curved surfaces, as well as for freestanding partition elements and furniture.



New Horizons in Design

dukta® Janus 3-layer panel partition wall



Spatial experience for the highest demands

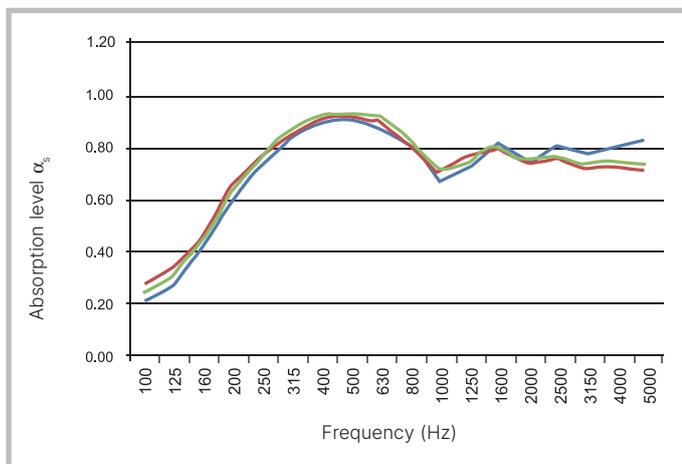
dukta® is suitable for use in acoustically sensitive rooms such as recording studios, cinemas, concert halls, restaurants, foyers, teaching rooms etc.

Measurements made by EMPA Schweiz (Swiss Federal Laboratories for Materials Science and Technology) confirm the high absorption properties. In addition, the sound diffusion can be controlled by corrugated mounted panels.

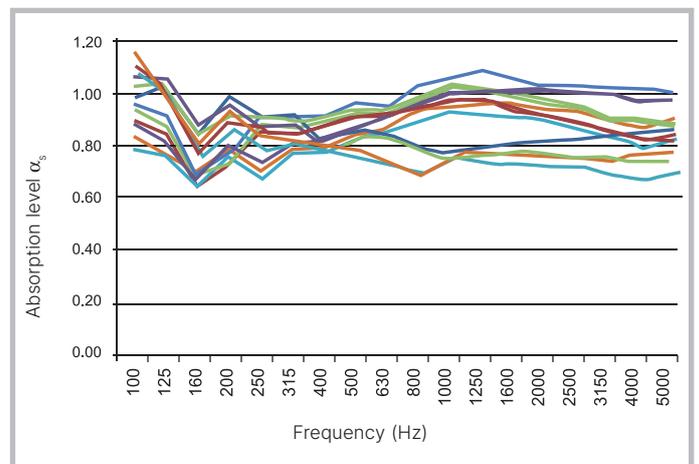
Due to the wave-shaped geometry of the panels, the sound waves come directly from all directions into the openings and are absorbed behind them. The different distances to the wall lead to short and long waves (high and bass sound) being captured in the same way.

The excellent acoustic properties and fascinating aesthetic enable you to create spatial experiences to the highest standards.

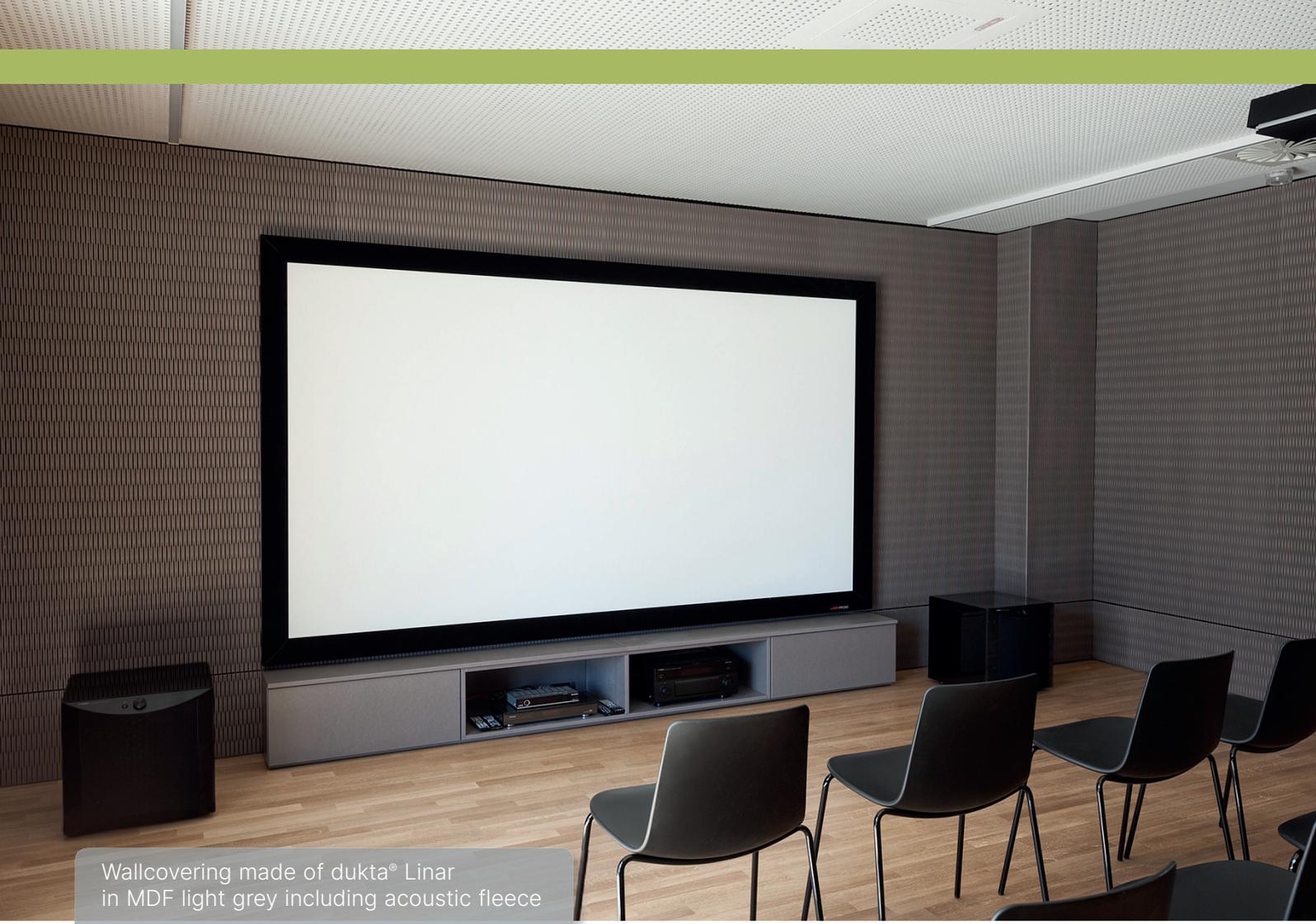
Flat Mounting



Corrugated Mounting

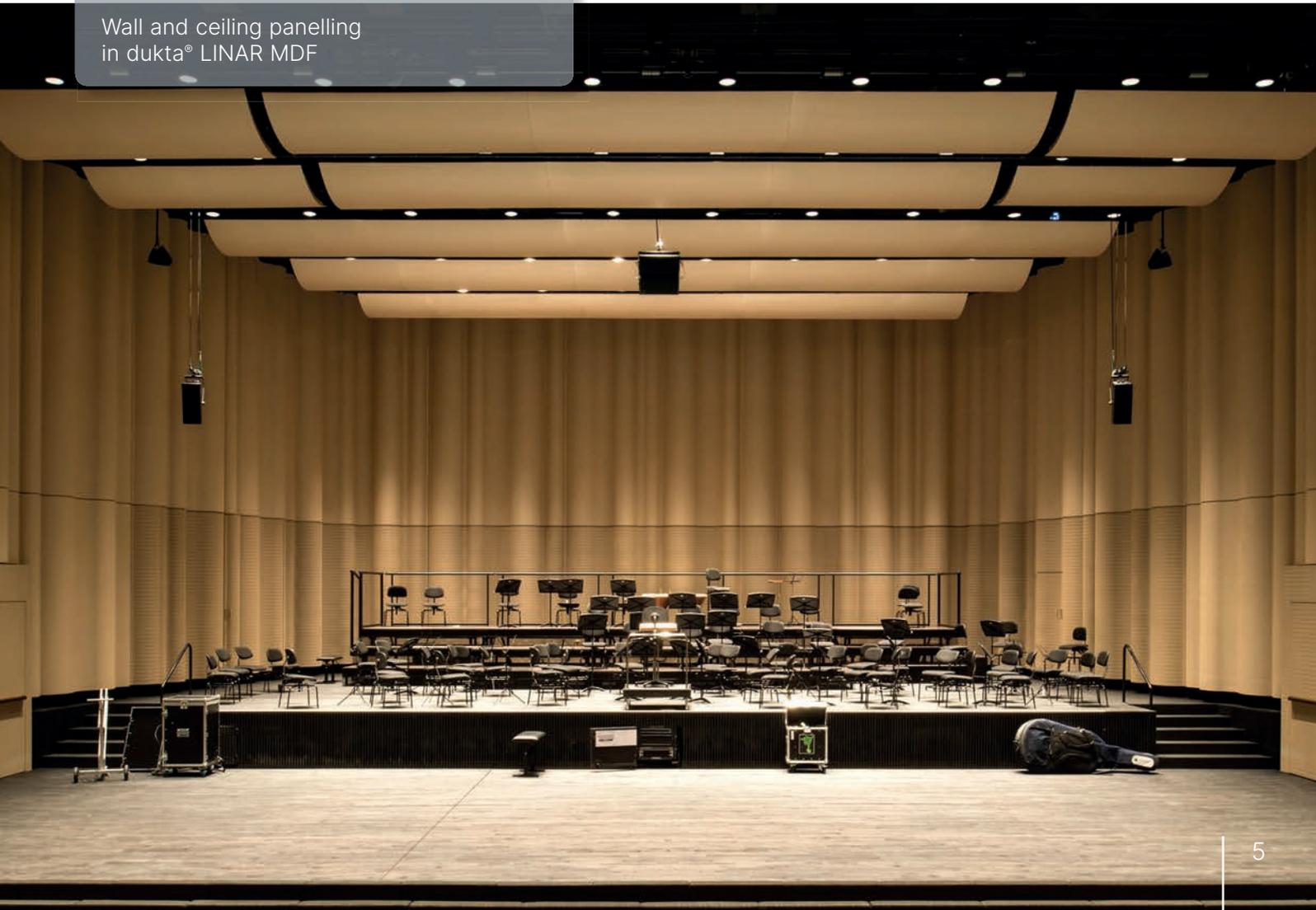


dukta® corrugated acoustic walls and ceilings reach, across all frequencies, as high sound absorption values as other products in specific frequency ranges.



Wallcovering made of dukta® Linar in MDF light grey including acoustic fleece

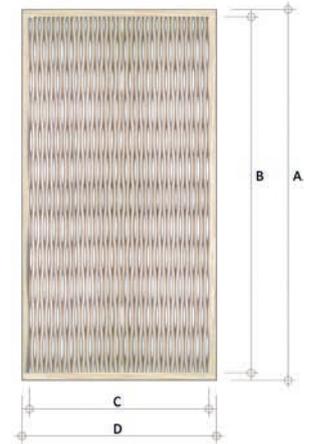
Wall and ceiling panelling in dukta® LINAR MDF



dukta[®]-Product Information

Standard panel dimensions

(tolerance +/- 0.5 cm)	panel size (AxD) in cm	VPM (m ²)	usable area (BxC) in cm	usable area in m ² / panel
JANUS (3-layered spruce or MDF natural)	250 × 102	2.55	237 × 97	2.29
LINAR (Multiplex Buche or MDF natural)	250 × 125	3.125	235 × 120	2.82
in MDF Color	244 × 125	3.05	228 × 120	2.74
SONAR (MDF natural)	250 × 125	3.125	232 × 120	2.78
in MDF Color	244 × 125	3.05	232 × 120	2.78
FOLI (MDF natural)	250 × 125	3.125	233 × 116	2.70
in MDF Color	244 × 125	3.05	227 × 116	2.65



The **incision** always follows the length and the direction of the wood. Due to transportation, each panel has a non-incised edge.

Surface: Raw (Multiplex beech and 3-layered-panel spruce: polished K60)

panel properties

	3-layer panel Spruce		MDF natur		MDF Color*		Multiplex Beech		Airflow rate
	Strength	kg/m ²	Strength	kg/m ²	Strength	kg/m ²	Strength	kg/m ²	
JANUS	27 mm	7	25 mm	10.5					ca. 33%
LINAR			8 mm	4	8 mm	5	8 mm	4	ca. 26%
SONAR			8 mm	4	8 mm	5			ca. 26%
FOLI			8 mm	5	8 mm	6			ca. 13%

* Standard colour is black, grey or light grey.

The **bending radius** depends on the incision type, material and panel thickness.

As reference:

LINAR	≥ 120 mm
JANUS	≥ 100 mm
SONAR	≥ 150 mm
FOLI	≥ 230 mm



Material Properties: Temperature resistance and emission values correspond to the standard values of the wood materials used such as solid wood spruce AB/B AW100, MDF-panel E1 and multiplex panel EN314-2/KL1. Sauna panel does not emit pollutants from gluing according to test certificate ÖNORM 6219-1.

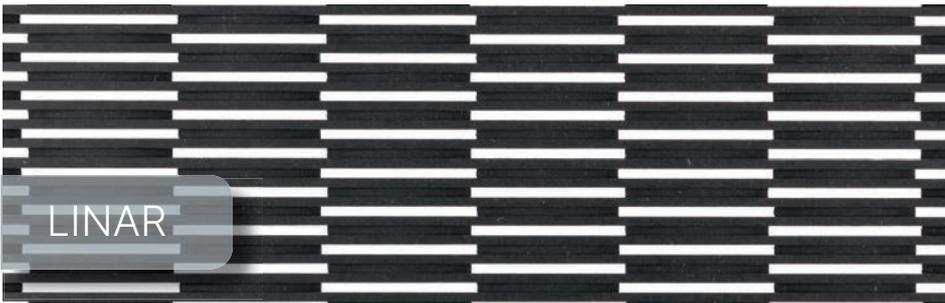
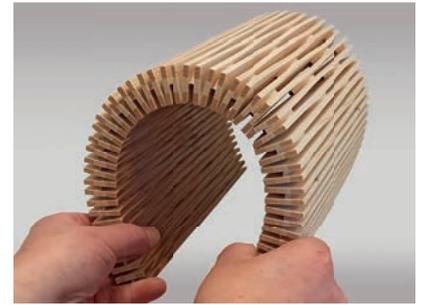
3 layered panel spruce: Homogeneous natural pattern, branches possible, slight pith portions possible, slight color deviations and slight cracks at the edge of the panels. Through milling, stripped or loose branches possible. The wooden panels are glued together and can therefore be integrated in the milling process. Plugged branches are part of the raw material and are permissible.

MDF/MDF Color: The main wood raw material is subject to natural color variations. Different production batches may therefore show slight differences in colour.

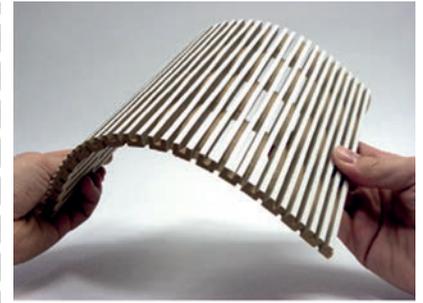
Please note: Conditional minor burns on incised base possible.



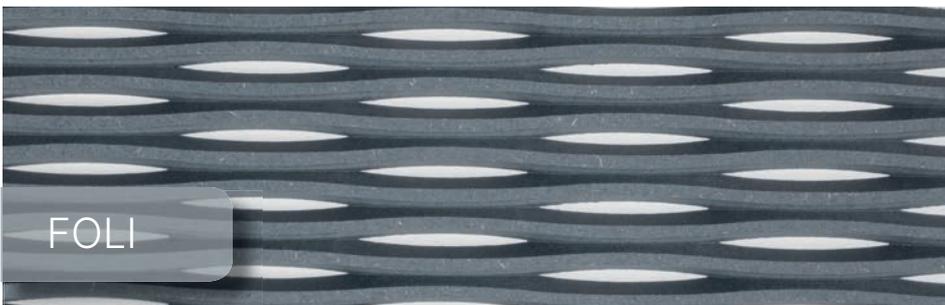
JANUS



LINAR



SONAR



FOLI



CERTIFIED MATERIAL

On request we manufacture your dukta® panels from certified panel material:

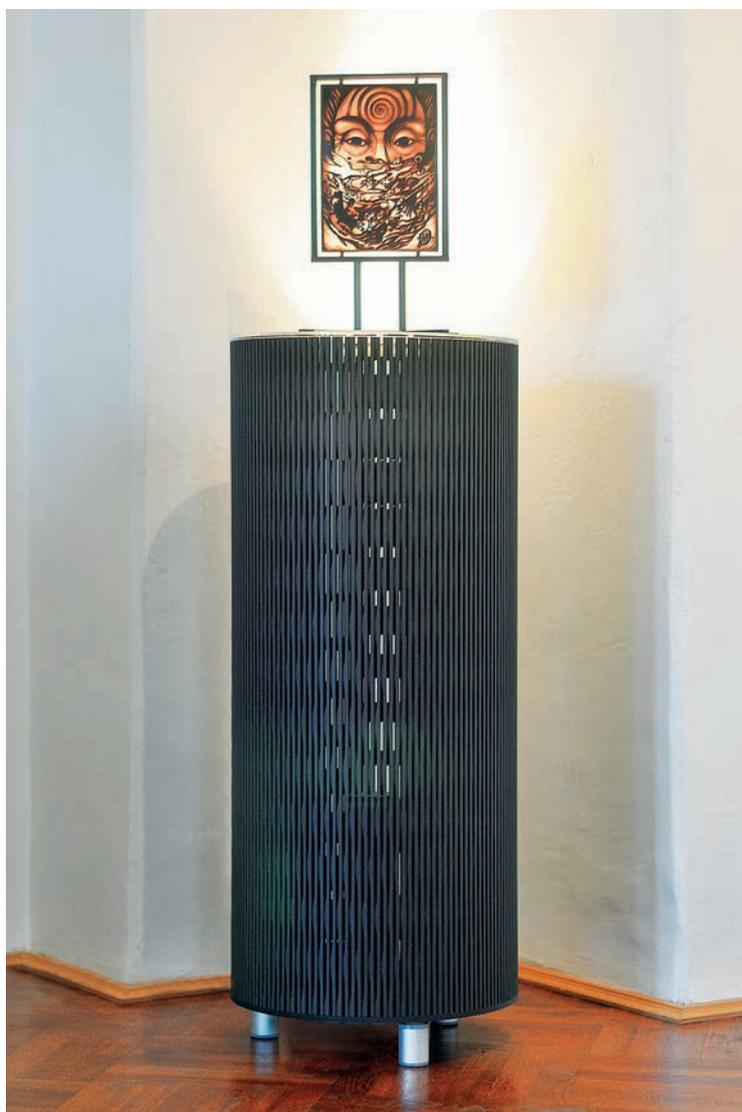
- JANUS 3-ply spruce (PEFC™) – from 20 pcs, delivery time: 10-12 weeks
- JANUS MDF natural (PEFC™ oder FSC™) - from 25 pcs, delivery time: 10-12 weeks
- LINAR Multiplex Beech (PEFC™) – from 20 pcs, delivery time: 10-12 weeks
- LINAR/SONAR/FOLI MDF Color (FSC™) – from 30 pcs, delivery time: 6-8 weeks
- LINAR/SONAR/FOLI MDF natural (FSC™) – from 25 pcs, delivery time: 6-8 weeks
- LINAR/SONAR/FOLI MDF natural (PEFC™) – from 80 pcs, delivery time: 6-8 weeks

Flexibility in Use

The wood-based panels incised on one or two sides open up great freedom in design thanks to their accessibility and transparency. They are particularly suitable for sound-absorbing wall and ceiling applications as well as for freestanding partition elements.

Due to the large proportion of open space (up to 33%), the dukta® elements are suitable for the concealed use in room climatic systems and for atmospheric backlighting. Thanks to the greatly enlarged surface area, the incised panels have a regulating effect on the room climate.

dukta® can also be used as a flexible (base) construction material.





dukta® LINAR in Multiply beech with white fleece backing used to clad the curved wall surfaces in an office building.

dukta® in shopfitting: For the design of cash desks in the new Palmers Home stores, dukta® JANUS mdf veneered with oak was used.



Impressions – realised projects with dukta®



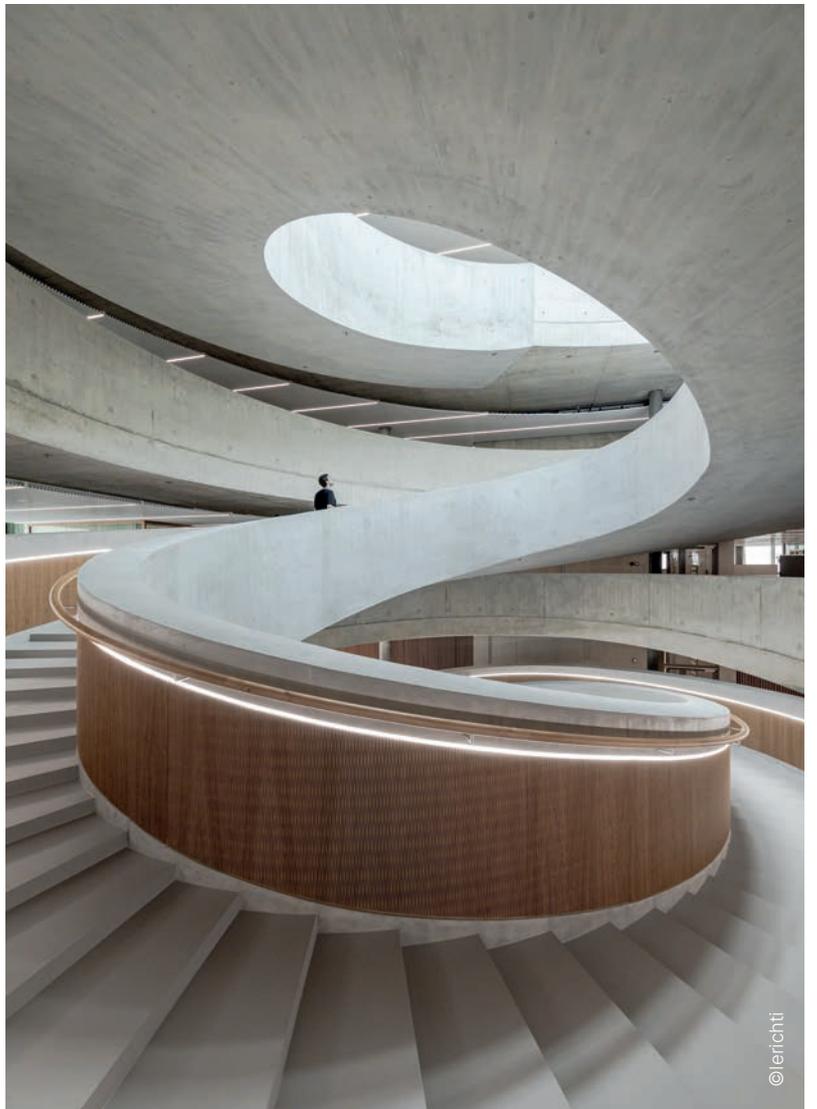




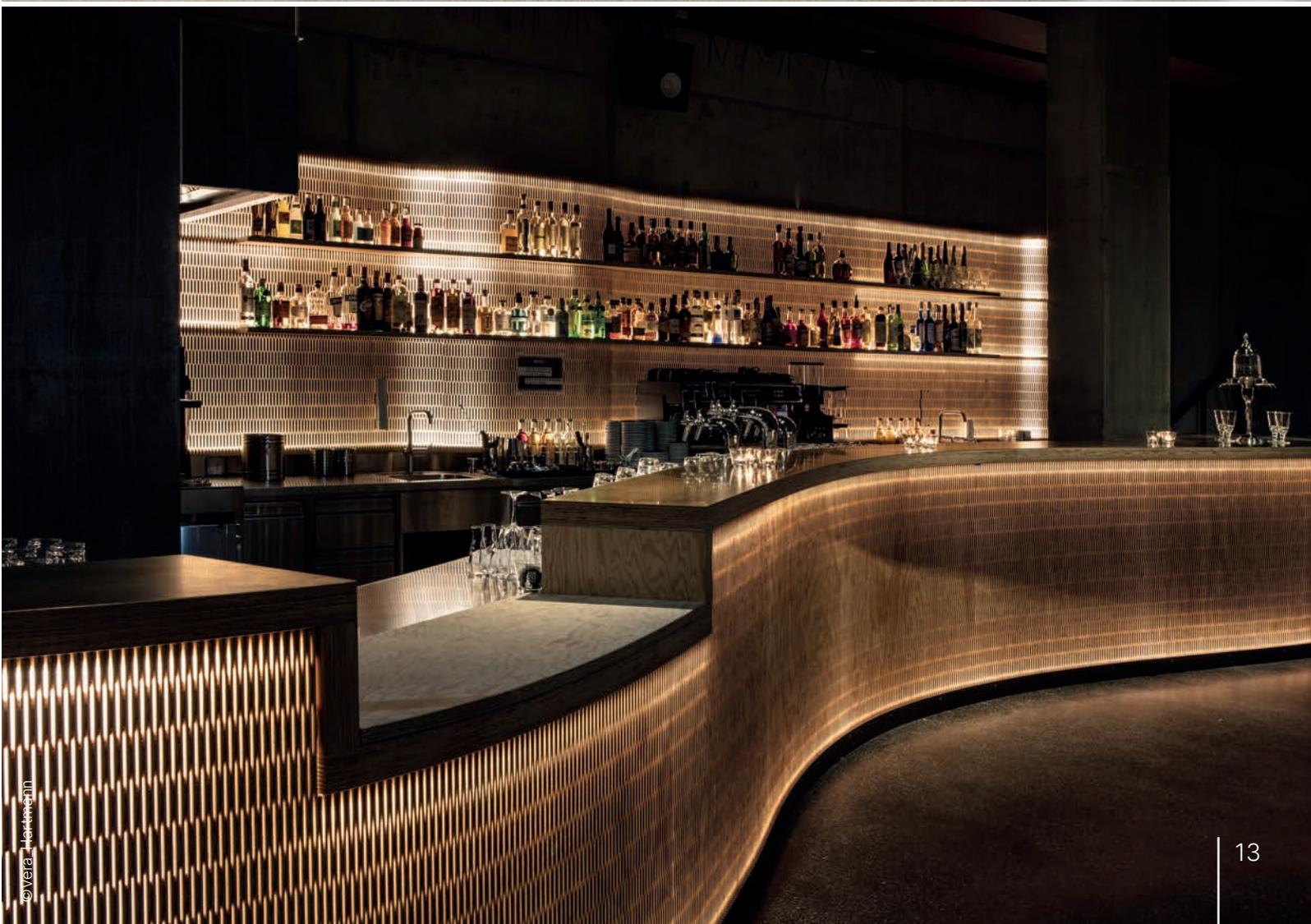
© BLUM



© a1torestavez



© lerichti



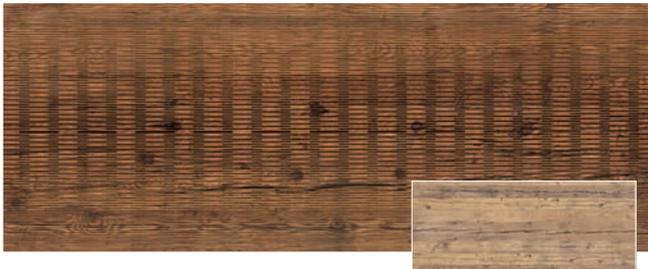
Flexible in design: dukta[®] PRINT

To expand the use and possibilities in interior design and shopfitting, we have most recently added panels with a digitally printed surface at: dukta[®] PRINT

All four dukta[®] types of incision are suitable for printing: Choose from one of our standard designs or send us your idea for an individual print.

Standard-Design:

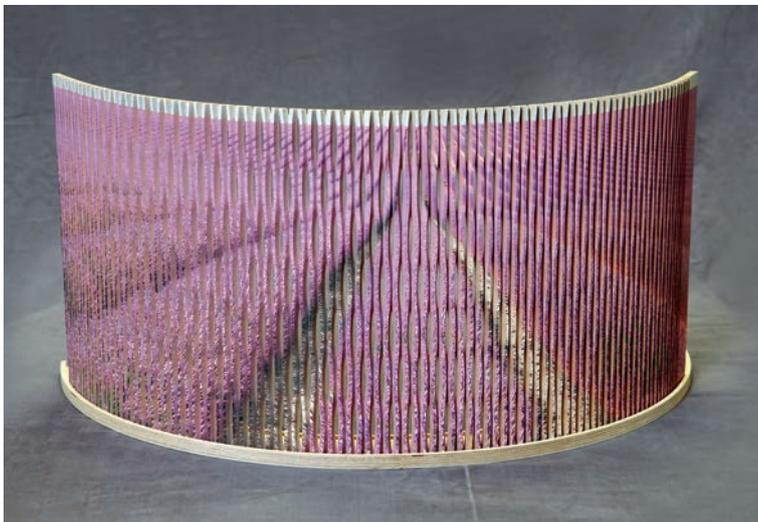
Reclaimed Lumber Brown



Reclaimed Lumber Grey



Individual print:



We also manufacture other designs, according to your wishes. Feel free to contact us!

Minimum order quantity for individual printing is 5 panels per design.

In case of motifs over several dukta[®]-panels, the usable area per panel may be smaller in order to ensure a continuous transition.



dukta® FOLI in MDF Natural and with individual print/design Lavender field.
Use in shopfitting, Energy Club Cheb.



dukta® PRINT SONAR MDF natural raw,
printed with individual design.

dukta[®] veneered

As a high-quality panel for furniture and shopfitting, dukta[®] offers veneered surfaces that offer a decorative composite to interiors.

For the veneered implementation, JANUS with 2 visible sides and LINAR with one visible side are suitable. High quality walnut or veneered oak are to choose from. The dukta[®] panels can be raw or matt lacquered.

Base materials are spruce 3-layered panels or MDF. Especially effective in combination with coloured MDF.



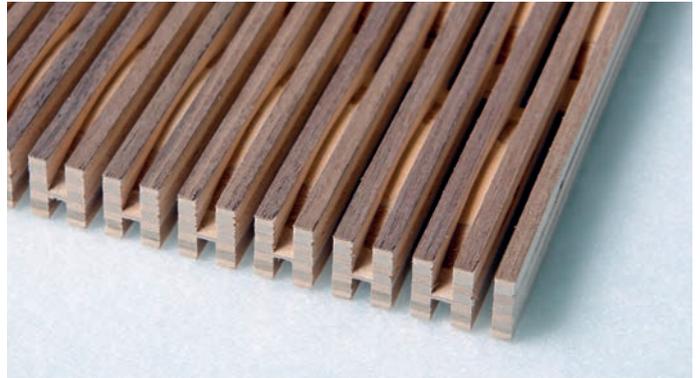
Furniture from from dukta[®] LINAR
mdf color black with veneered raw oak

dukta[®] Sauna panels



Base material is a 16mm plywood panel from european alder with one sided sliced veneer top layer in the choice of oak, hemlock, aspen and american walnut.

Area of application is the high-quality sauna, infrared, hot cabins or wellness (interior construction of the cabins).



Saunaboard dukta[®] LINAR with nut veneer (front side)



The back is grooved.



100% glued
formaldehyde-free



sunbed -
wood type aspen

Special finishes



In addition to our standard program, we are continuously developing special solutions for the special requests of our customers.

Lacquered surface

In principle, all dukta® panels can also be ordered with matt lacquered surfaces. Standard colour paints are black (RAL9005) white (RAL9010) and grey (RAL7000) For more colour diversity there is the option of custom-made colored (RAL-) paint. All coatings are 2-component coatings based on acid-hardening melamine resin and meet the requirements of the standard DIN EN71-Part 3.



MDF Color

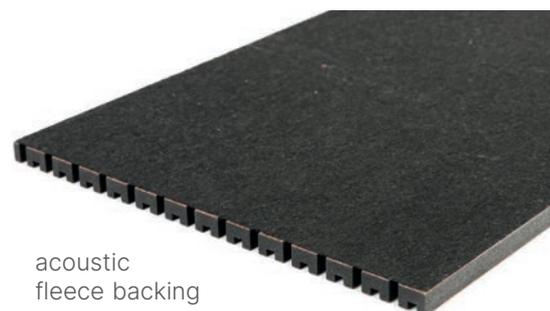
We offer MDF color in black, grey and light grey in our standard program from 5 panels in 8mm (LINAR, FOLI, SONAR) - Delivery time: 4 weeks.

or as a one-sided incision LINAR (back is grooved) in strength 19mm with a minimum order of 5 panels, delivery time: 5 weeks.



Acoustic fleece

Acoustic fleece backing for panels LINAR, SONAR, FOLI is possible in combination with lacquered surface. Acoustic fleece available in either black or white.



acoustic
fleece backing



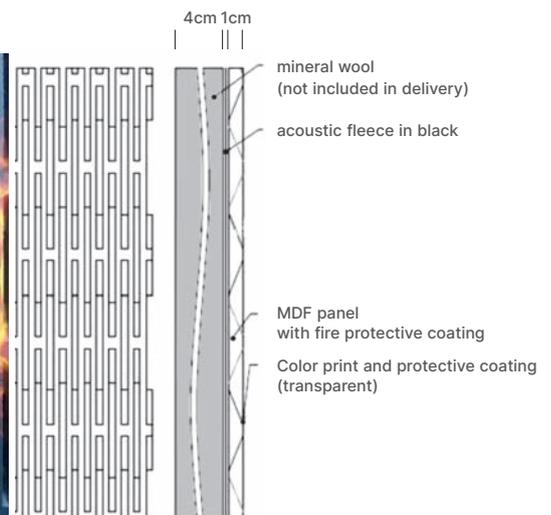
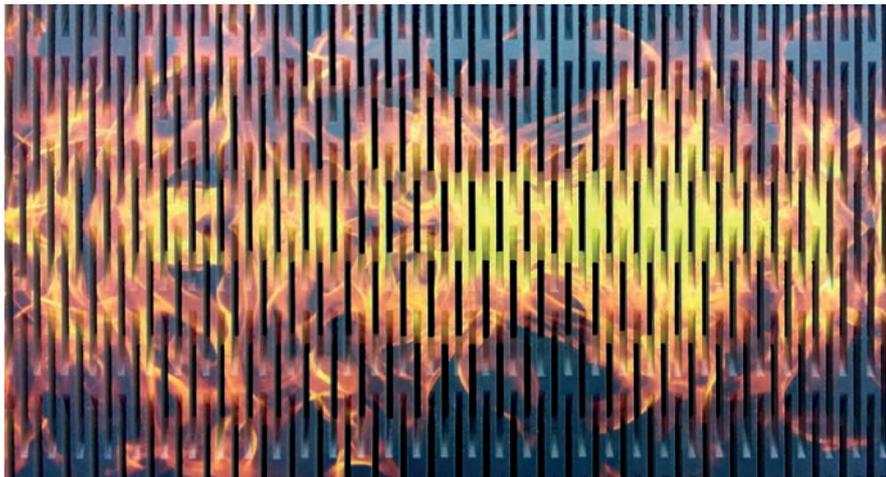
Fire protection with dukta® SONAR PRO

For projects where the use of building materials with classified flammability is necessary, we offer our product "dukta® SONAR PRO". This has been successfully tested for flammability and certified with C-s2-d0 (according to EN standard 13501-1).

This classification corresponds to the former DIN B1 standard "flame retardant". The certification of "dukta® SONAR PRO" was carried out in combination with a flame retardant MDF board (B-s2, d0), 10mm thick, with a SONAR milling pattern, which is fire-resistant after milling with a fleece and mineral wool backing *.

* The mineral wool is not included in KOLAR deliveries.

Depending on your requirements, we can also mill other types of dukta® MDF fire-protection panels on request. In addition, fire-protective coatings are also possible. These are neither tested for fire safety nor certified.



Special formats / special materials

- Special formats from 30 m². Max. size 1400×2840 mm, max. usable area 1300×2700 mm (depending on milling pattern and material)
- Special material from 100 m²
- Special milling from 100 m²

All custom-made products are subject to a sample approval. Costs for sample or test milling are offered separately.



e. g. Bamboo
3-layered panel, 7mm

Assembly

Find a short installation video at www.fkolar.com



LINAR/SONAR/FOLI

The use of our dukta® panels is possible on walls, in corners and on ceilings. Suitable for straight and curved applications. You can find examples of use on our homepage www.fkolar.com.



Planning



framework



filling (rock wool)



metal moulding ML 40



hang - finished!

For dukta® panels with the milling types **LINAR**, **SONAR** and **FOLI**, we offer the bendable metal moulding (DU.ML40). This is screwed to the wall or a shaped support that dukta® panels are then hung on to. The metal moulding can be easily cut with a metal shears .

The solid wooden mounting mouldings from beech are available in a straight version and also as quarter circles with two different radii. The moulding DU.ML07 (spruce raw) can be used both for wall mountings as well as a stationary connecting elements.

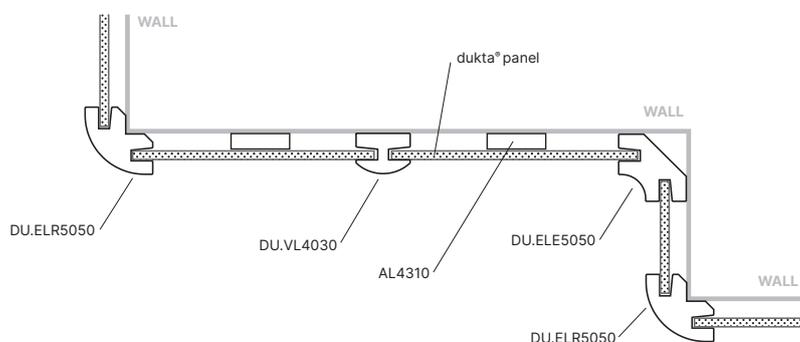
dukta®-panel strength: 8 mm

	Article Number	Dimension	Moulding Type	Outside Radius
	DU.AL01	21 × 66 mm	cut lengths	–
	DU.AB01-707	21 × 66 mm	quarter circles	707 mm
	DU.AB01-357	21 × 66 mm	quarter circles	357 mm
	DU.AL03	21 × 58 mm	cut lengths	–
	DU.AB03-700	21 × 58 mm	quarter circles	700 mm
	DU.AB03-350	21 × 58 mm	quarter circles	350 mm
	DU.ML07	40 × 20 mm	cut lengths (spruce raw)	–
Metal moulding: 	Article Number	Dimension	Moulding Type	Feature
	DU.ML40	40 × 0,8 mm	cut lengths 125 cm	flexible bendable

Cut lengths: 250-275 cm (± 2 cm), except DU.ML40: 125 cm

Corner solutions

These mounting mouldings made of solid beech have a matching grooves for LINAR, SONAR or FOLI panels. They are suitable for use as a designer visible element in acoustic wall cladding or for partition walls / room dividers. Other applications include frame construction of acoustic wall elements and acoustic columns. The moulding lengths are 240-250cm.



	Article Number	Dimension	Moulding Type
	Outside corner DU.ELR5050	50 × 50 mm	cut lengths
	Inside corner DU.ELE5050	50 × 50 mm	cut lengths
	Connecting element DU.VL4030	40 × 30 mm	cut lengths
	Constructing moulding AL4310	43 × 10 mm	cut lengths

Accessories dukta® Hook

Hooks for creative use and shopfitting / shop design. Can be used with a panel thickness of 8mm with milling type LINAR or SONAR.



Article Number	Material	Dimension	Thickness	qty/unit
DU Haken	compact panel	42 × 35 mm	4 mm	1 set (5 pcs)

JANUS

We offer you the installation of **dukta® JANUS** panels as freestanding elements straight wooden mouldings in beech raw (cut lengths) and also as quarter circles with two different radii. The large circle is designed for approx. 1 dukta® panel width, the smaller circle for ½ panel width.

Cut lengths can be used as a bottom moulding, ceiling moulding and side end moulding (miter cutting necessary).

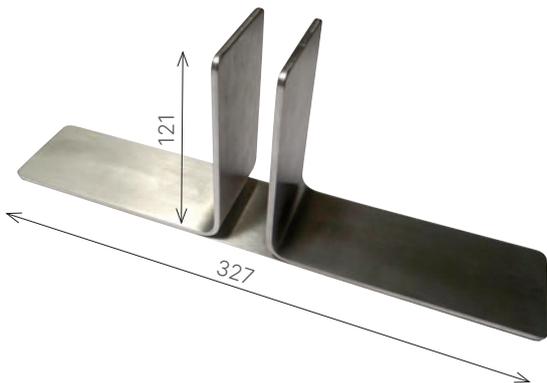


	Article Number	Dimension	Moulding type	Outside radius
	DU.AL05	21×32 mm	Cut length	–
	DU.AB05-603	21×32 mm	Quarter Circle	603 mm
	DU.AB05-303	21×32 mm	Quarter Circle	303 mm
	DU.AL07	21×42 mm	Cut length	–
	DU.AB07-610	21×42 mm	Quarter Circle	610 mm
	DU.AB07-310	21×42 mm	Quarter Circle	310 mm

Cut lengths: 250-275 cm (± 2 cm)

Metal Feet Accessories

For JANUS as freestanding, two-sided application, we offer metal feet made of stainless steel with a brushed surface.



Perfect for planning and meetings with customers:



Sample boxes



hand samples in size A4 or A6



presentation folder

dukta[®] overview

Page	Type	Material	Panel size in cm	Usable surface in cm	Strength in mm	Minimum order	Delivery time
standard product range							
6/7	JANUS	3 layered panel raw spruce	250 × 102	237 × 97	27	1 Piece	On stock*
6/7		MDF natural	250 × 102	237 × 97	25	1 Piece	On stock*
6/7	LINAR	Multiplex beech	250 × 125	235 × 120	8	1 Piece	On stock*
6/7		MDF natural	250 × 125	235 × 120	8	5 Pieces	20 work. d.
6/7		MDF color black	244 × 125	228 × 120	8	1 Piece	On stock*
6/7		MDF color grey, light grey	244 × 125	228 × 120	8	5 Pieces	20 work. d.
6/7	SONAR	MDF natural	250 × 125	232 × 120	8	1 Piece	On stock*
6/7		MDF color black	244 × 125	232 × 120	8	5 Pieces	20 work. d.
6/7		MDF color grey, light grey	244 × 125	232 × 120	8	20 Pieces	60 work. d.
6/7	FOLI	MDF natural	250 × 125	233 × 116	8	1 Piece	On stock*
6/7		MDF color black	244 × 125	227 × 116	8	5 Pieces	20 work. d.
6/7		MDF color grey, light grey	244 × 125	227 × 116	8	5 Pieces	20 work. d.
dukta[®] veneered							
16	JANUS (2 sided)	3 layered panel raw spruce, veneered oak or walnut	250 × 102	237 × 97	28	5 Pieces	30 work. d.
16		MDF natural, veneered oak or walnut	250 × 102	237 × 97	26	5 Pieces	30 work. d.
16	LINAR (1 sided)	MDF natural, veneered oak or walnut	250 × 125	235 × 120	8	5 Pieces	30 work. d.
16		MDF Color black, veneered oak or walnut	244 × 125	228 × 120	8	5 Pieces	30 work. d.
dukta[®] PRINT							
14	Standard design: reclaimed lumber grey, reclaimed lumber brown	JANUS MDF / 3 layered panel raw spruce (measures see above) LINAR/SONAR/FOLI MDF natural (measures see above)				5 Pieces	30 work. d.
15	Individual print	dukta [®] panels of choice from the standard program				5 Pieces (per design)	30 work. d.**
Special finishes, extra options							
18		Clear matt lacquer				5 Pieces	+ 5 work. d.
18		RAL lacquer				5 Pieces	+ 5 work. d.
18		Accoustic Fleece backing (available for lacquered panels)				5 Pieces	+ 10 work. d.
18	LINAR 1 sided, grooved back	MDF Color other colours	244 × 125	228 × 120	19	5 Pieces	20 work. d.
17	Sauna panels	Alder plywood, veneered (oak, hemlock, aspen, walnut)	250 × 125	235 × 120	16	6 Pieces	40 work. d.
19	SONAR PRO	certified C-s2, d0	250 × 125	232 × 120	10	20 Pieces	35 work. d.

* Small amounts on stock, subject to interim sale. For new production, the delivery time is 20 working days

** From release of a specially produced pattern

Panel Storage: Best stored covered, in a cool and dry place on a flat, smooth and clean surface. Do not expose to direct sunlight!

Handling: dukta[®] panels can be processed, e.g. cut, milled, drilled and sanded using standard tools for wood. Use new or well-sharpened tools.



Only wood of best quality
is processed.



We are certified. Certified
products available on demand
(PEFC™ oder FSC™)



Ideally suitable for use in
acoustically sensitive rooms such
as recording studios, cinemas,
concert halls or seminar rooms



Diverse interior design possibilities
for planners, interior designers,
carpenters, furniture manufacturers
and many more.



KOLAR
WOOD ELEMENTS

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