

WE SUPPLY WOOD PERFECTION IN SERIES.



## More flexibility with wood

### Visual and technical aspects opening New Horizons in Design

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.









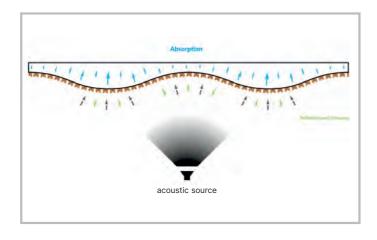






# Spatial experience

### for the highest demands



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

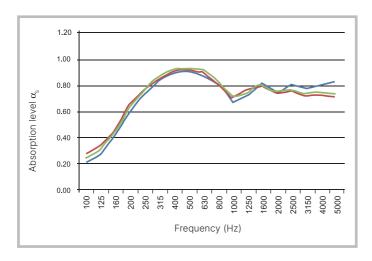
Measurements made by EMPA Schweiz (Swiss Federal Laboratories for Materials Science and Technology) confirm the high absorption properties. In addition, the sound diffusion can be controlled by corrugated mounted panels.

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.

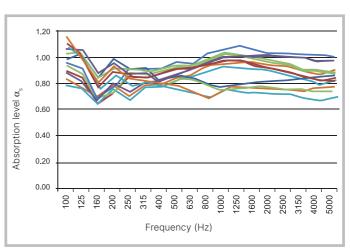
The different distances to the wall lead to short and long waves (high and bass sound) being captured in the same way.

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

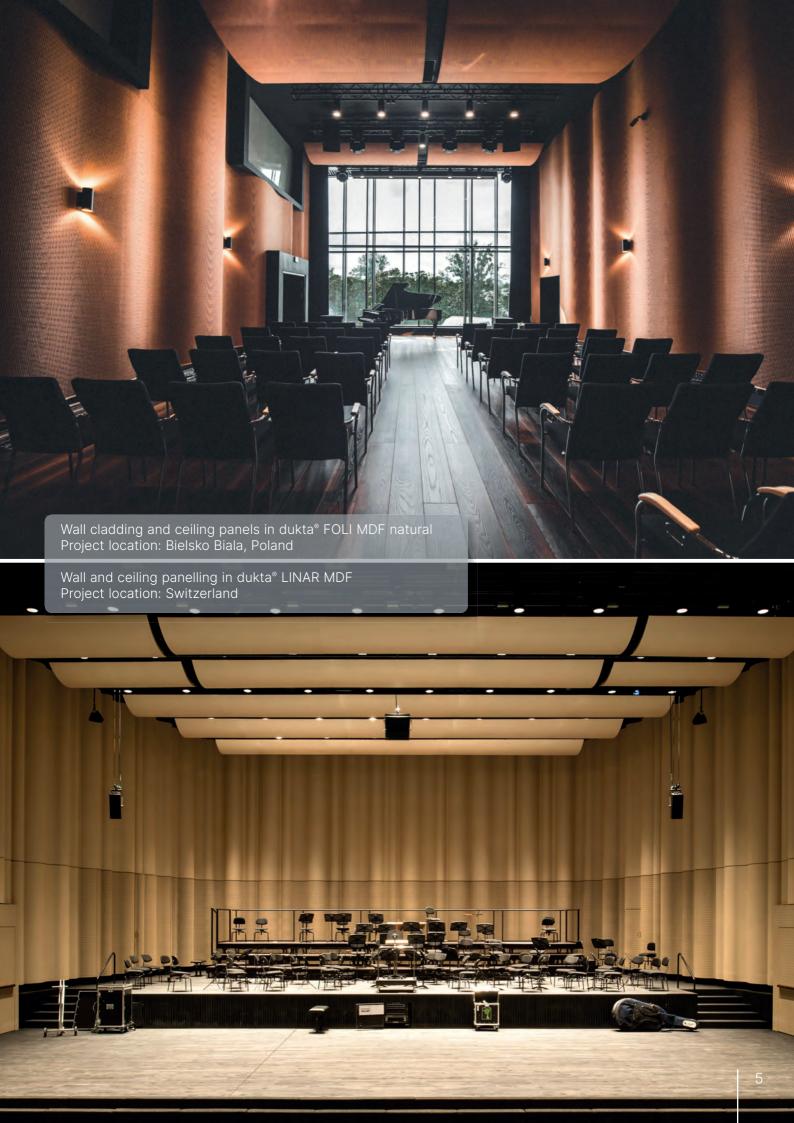
#### **Flat Mounting**



#### **Corrugated Mounting**



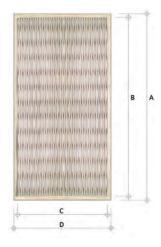
dukta® corrugated acoustic walls and ceilings achieve such high sound absorption values across all frequencies. Other products only do this in specific frequency ranges.



# dukta® Product Information

#### Standard panel dimensions

(tolerance +/- 0.5 cm)	panel size (AxD) in cm	VPM (m²)	usable area (BxC) in cm	usable area in m² / panel
JANUS (3 layered panel spruce or MDF natural)	250 × 102	2.55	237 × 97	2.29
LINAR (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 (Mulitplex beech and 3-layered-panel spruce: polished K60)

#### panel properties

	3-layer Spri		MDF natur		MDF Color*		Airflow rate	bending radius
	Strength	kg/m²	Strength	kg/m²	Strength	kg/m²		
JANUS	27 mm	7	25 mm	10.5			ca. 33%	≥ 100 mm
LINAR			8 mm	4	8 mm	5	ca. 26%	≥ 120 mm
SONAR			8 mm	4	8 mm	5	ca. 26%	≥ 150 mm
FOLI			8 mm	5	8 mm	6	ca. 13%	≥ 230 mm

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

#### STANDARD MDF-COLOURS











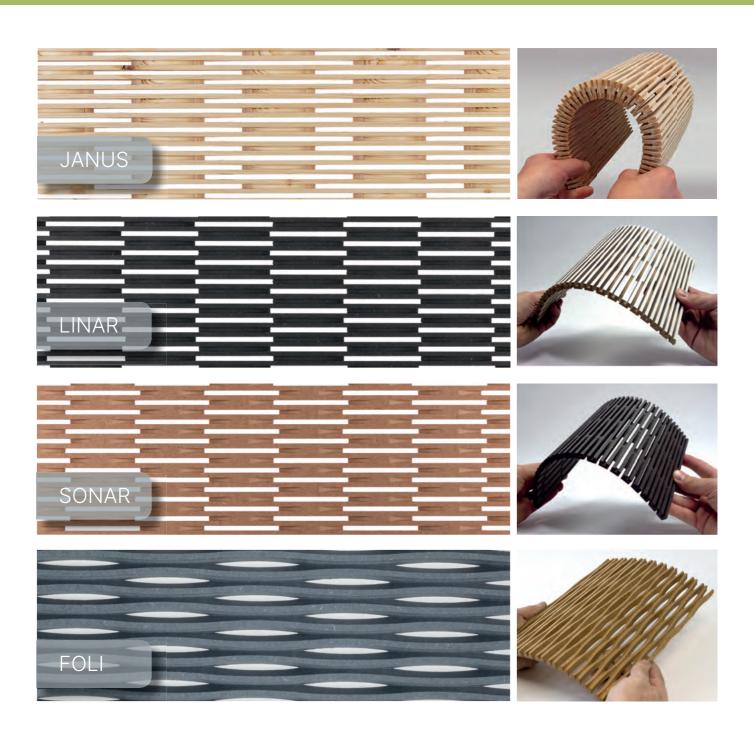
Material Properties: Temperature resistance and emission values correspond to the standard values of the wood materials used such as solid wood spruce AB/B AW100, MDF-panel.

**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.





#### **CERTIFIED MATERIAL**





We can manufacture your dukta® panels from certified panel material on request. Please ask for the current prices.

available materials	minimum order quantity	usual delivery tim
JANUS 3-layer board spruce (PEFC)	from 20 pieces	10-12 weeks
JANUS MDF natural (PEFC or FSC™)	from 25 pieces	10-12 weeks
LINAR/SONAR/FOLI MDF natural / Color (FSC	C™) from 30 pieces	6-8 weeks
LINAR/SONAR/FOLI MDF natural (PEFC)	from 80 pieces	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 concealing room climatic systems and for atmospheric backlighting. Thanks to the greatly enlarged surface area, the incised panels effectively regulate room climates.

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







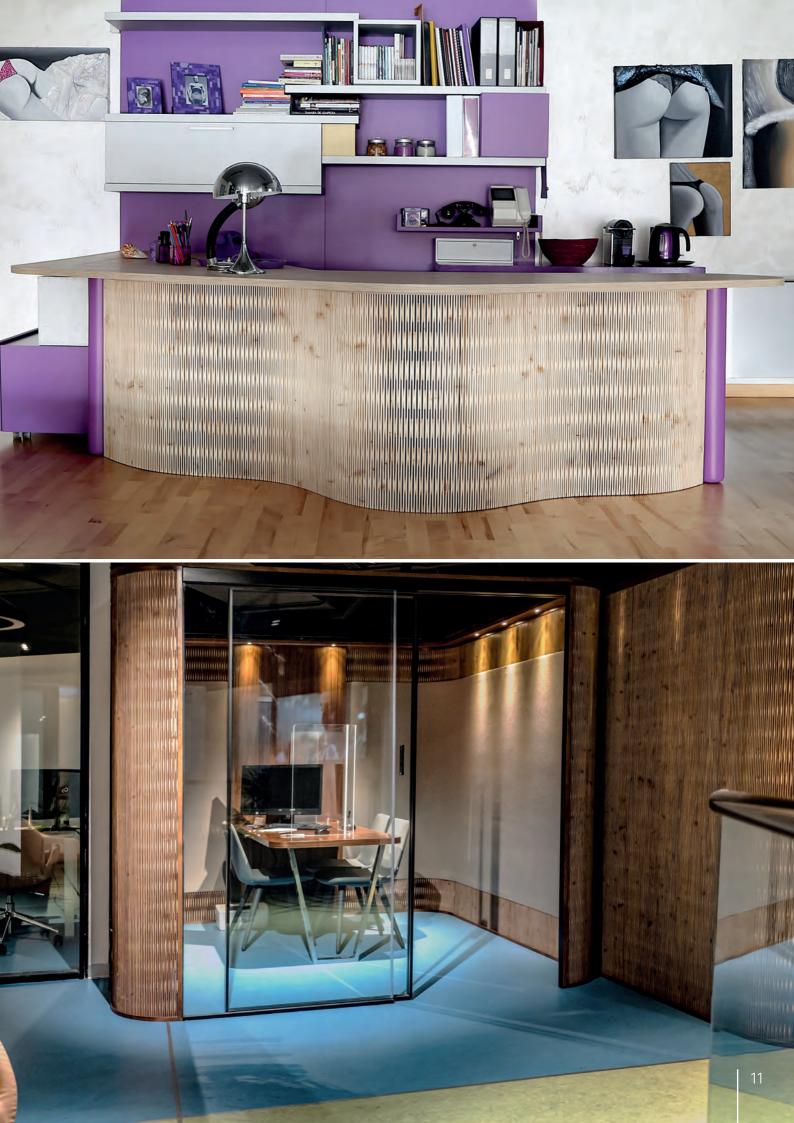
# Impressions

### realised projects with dukta®



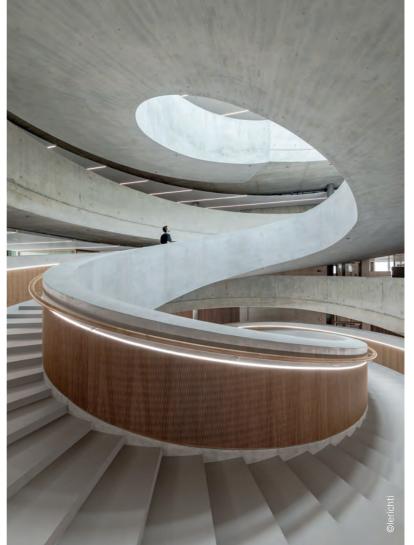
















### dukta® PRINT

### Flexible in design

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:

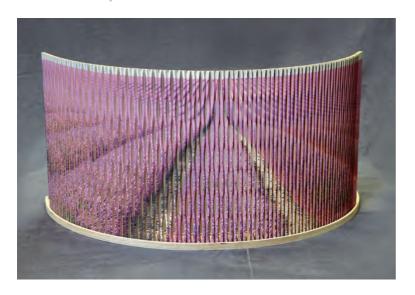
Reclaimed Lumber Brown



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.



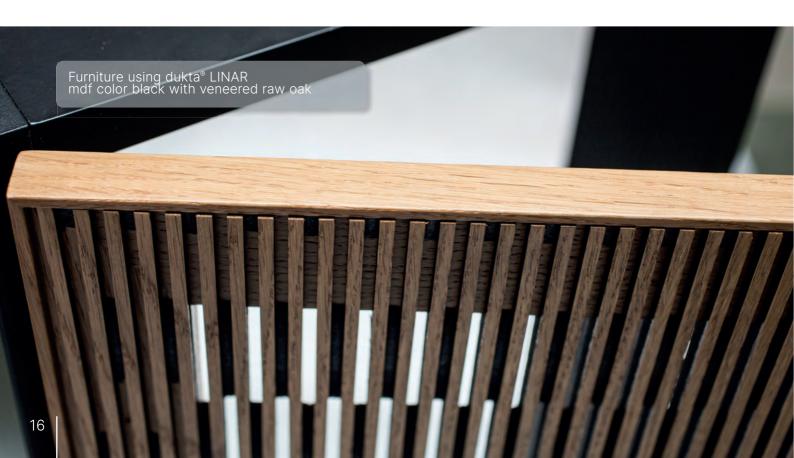
# dukta® veneered

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 visable sides and LINAR with one visable 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.









# 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.



#### Acquistic fleece

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



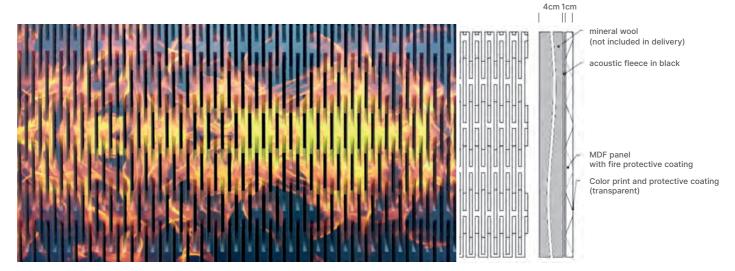


### Fire protection with dukta® SONAR PRO

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 m<sup>2</sup>
- Special milling from 100 m<sup>2</sup>

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



## Assembly

### 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 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	Radius	Length (± 2 cm)
	DU.AL01	21×66 mm	cut lengths	-	250-275 cm
21	DU.AB01-707	21×66 mm	quarter circles	707 mm	
66	DU.AB01-357	21×66 mm	quarter circles	357 mm	
112.001	DU.AL03	21×58 mm	cut lengths	-	250-275 cm
21	DU.AB03-700	21×58 mm	quarter circles	700 mm	
58	DU.AB03-350	21×58 mm	quarter circles	350 mm	
20 40	DU.ML07	40 × 20 mm	cut lengths (spruce raw)	-	250-275 cm
Metal moulding:	Article Number	Dimension	Moulding Type	Feature	
1 - 1 1 - 11 1 - 11	DU.ML40	40×0,8 mm	cut lengths 125 cm	flexible bendable	125 cm

### Corner solutions

### Mounting material for LINAR, SONAR and FOLI

These mounting mouldings are made of solid beech and have 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.





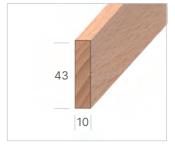
Outside corner DU.ELR5050



Inside corner DU.ELE5050



Connecting element DU.VL4030



Constructing moulding AL4310

#### 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.



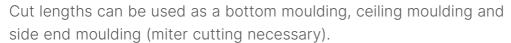
Article Number	Material	Dimension	Thickness	qty/unit
DU Haken	compact panel	42×35 mm	4 mm	1 set (5 pcs)



# Assembly

### Mounting material and accessories for JANUS

For the installation of **dukta® JANUS** panels as a free-standing element, we offer you wooden mouldings made of raw beech in a straight design (cut lengths) and also as quarter circles with two different radii. The large arch is designed for around 1 dukta® panel width, the small one for ½ panel width.

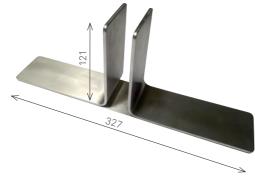




	Article Number	Dimension	Moulding type	Outside radius	Length (± 2 cm)
[6]	DU.AL05	21×32 mm	Cut length	-	250-275 cm
21	DU.AB05-603	21×32 mm	Quarter Circle	603 mm	
32	DU.AB05-303	21×32 mm	Quarter Circle	303 mm	
21	DU.AL07	21×42 mm	Cut length	-	250-275 cm
	DU.AB07-610	21×42 mm	Quarter Circle	610 mm	
42	DU.AB07-310	21×42 mm	Quarter Circle	310 mm	

#### **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:





# dukta® overview

				Usuable						
Page	Туре	Material	Panel size in cm	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	MDF natural	250 × 125	235 × 120	8	5 Pieces	On stock*			
6/7		MDF Color black, light gray	244 × 125	228 × 120	8	1 Piece	On stock*			
6/7		MDF Color dark 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	On stock*			
6/7		MDF Color light-, dark grey	244 × 125	232 × 120	8	5 Pieces	20 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	1 Piece	On stock*			
6/7		MDF Color light-, dark grey	244 × 125	227 × 116	8	5 Pieces	20 work. d.			
	dukta® veneered									
16	JANUS (2 sided)	3-layer panel spruce raw, oak or walnut veneer	250 × 102	237 × 97	28	5 Pieces	30 work. d.			
		MDF natural, oak or walnut veneer	250 × 102	237 × 97	26	5 Pieces	30 work. d.			
16	LINAR (1 sided)	MDF natural, oak veneer	250 × 125	235 × 120	8	5 Pieces	On stock*			
		MDF natural, beech or walnut veneer	250 × 125	235 × 120	8	5 Pieces	30 work. d.			
		MDF color black, walnut veneer	244 × 125	228 × 120	8	5 Pieces	On stock*			
		MDF color black, oak veneer	244 × 125	228 × 120	8	5 Pieces	30 work. d.			
16	FOLI (1 sided)	MDF natural, oak, beech or walnut veneer	250 × 125	235 × 120	8	5 Pieces	30 work. d.			
		MDF color black, oak, beech or walnut veneer	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 ra LINAR/SONAR/FOLI MDF natural			e 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 standard					+ 5 work. d.			
18		RAL-lacquer custom					+ 10 work. d.			
18		Accoustic Fleece backing (available for lacquered panels)	white o	or black			+ 10 work. d.			
18	LINAR 1 sided, grooved back	MDF Color	244 × 125	228 × 120	19	5 Pieces	20 work. d.			
19	SONAR PRO	certified C-s2, d0	250 × 125	232 × 120	10	20 Pieces	35 work. d.			

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

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.

Released: April 2023

<sup>\*\*</sup> From release of a specially produced pattern



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.



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