

# dukto<sup>®</sup> flexible wood

Design

Acoustics



DŘEVĚNÉ LIŠTY

# dukta® - flexibility, construction, acoustics

We offer an ecological dukta® product for designing interiors. Incredible extensibility achieved thanks to special process of grinding and transparency of Dukta® panel guarantees visually pleasing effect and good sound absorption properties simultaneously. Dukta® panels are grooved on one side or two sides. They can be used equally effectively on walls, ceilings (straight and curved surfaces) and also for covering individual partition walls or pieces of furniture.



Dukta® panels are wood-based. Thanks to special process of grinding and milling an incredible extensibility of panels is achieved.



partition wall- dukta®  
JANUS in a 3-layer panel

**fk** DŘEVĚNÉ LIŠTY Víc(e) masivního dřeva

## Experience from outer world for the demanding

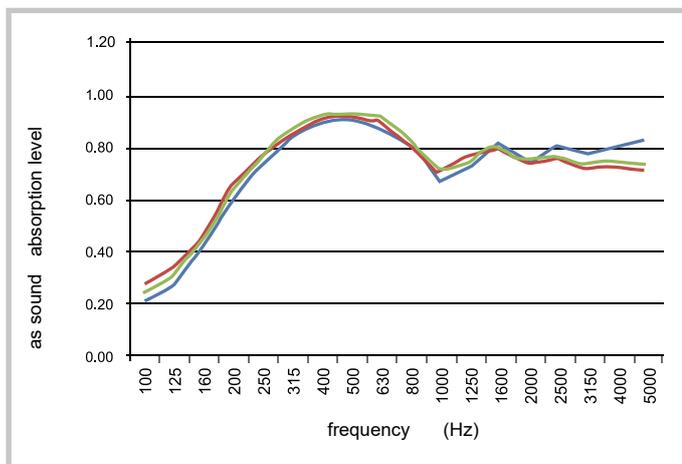
Dukta® panels are suitable for regions acoustically sensitive (recording studios, theatres, concert halls, restaurants, showrooms, training rooms, etc.)

EMPA measurements in Switzerland confirm high absorption values. Installed panels in wavy form may increase sound dispersion. Perfect acoustics function along with visually pleasing effect which enable using surround sound with the highest requirements.

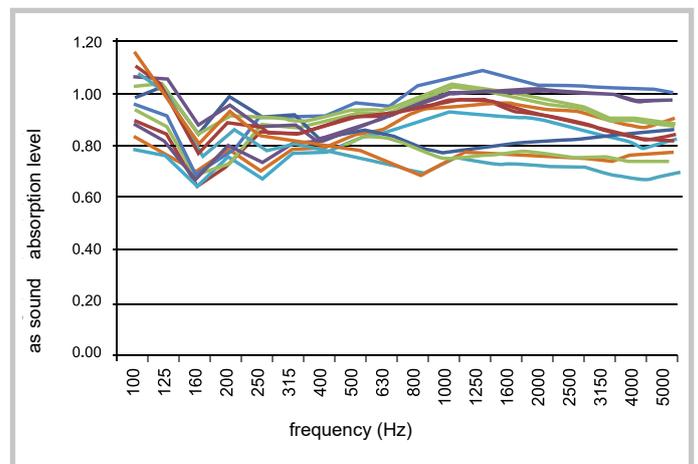
Dukta® walls and wavy ceilings reach high absorption values in all frequencies while other products only in a limited frequency range. In order to achieve the sound absorption properties of Dukta® panels others have to use more diverse products (high, medium and deep absorption). Dukta® panels have built in traditional absorbers.



simple installation

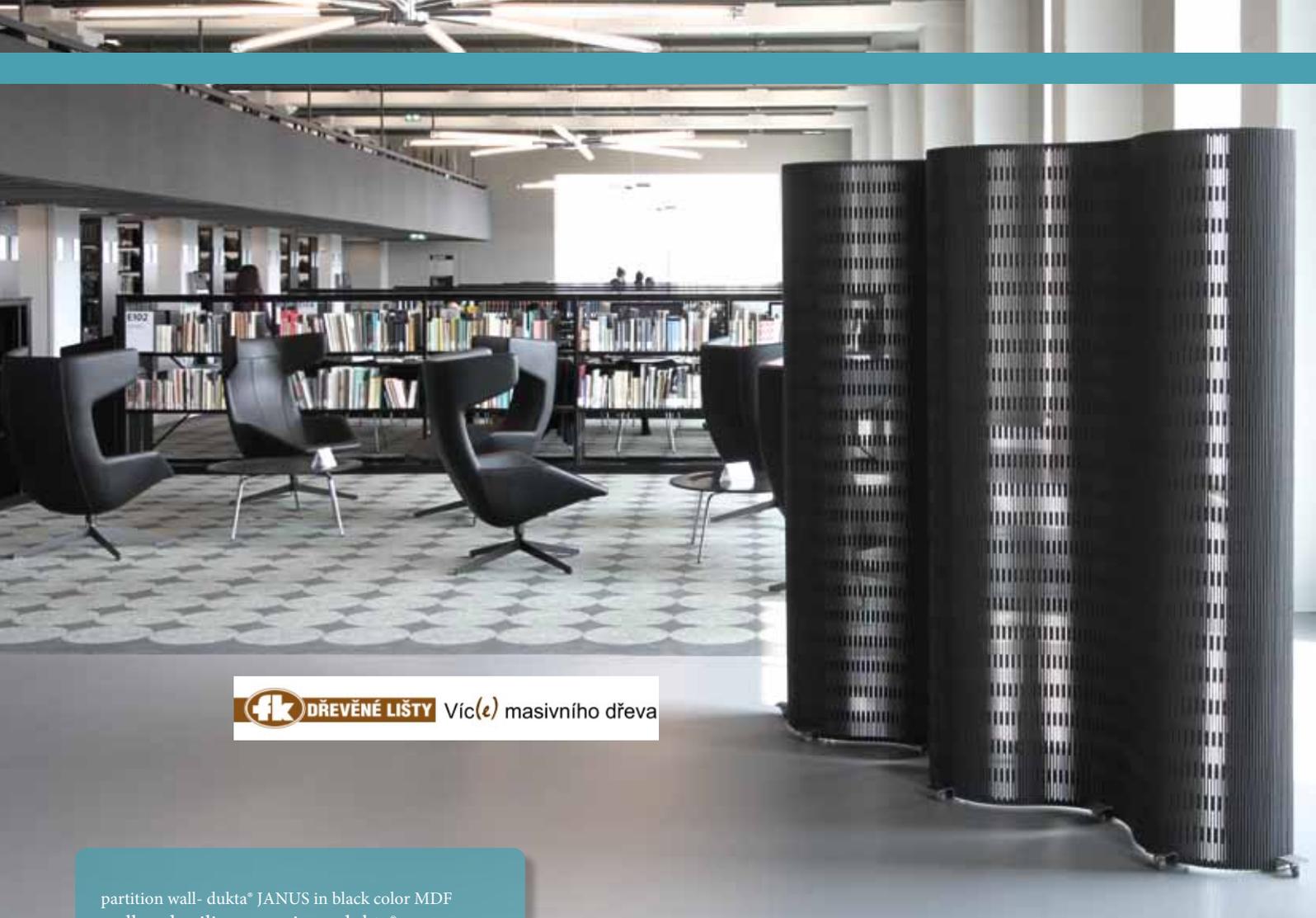


wavy installation



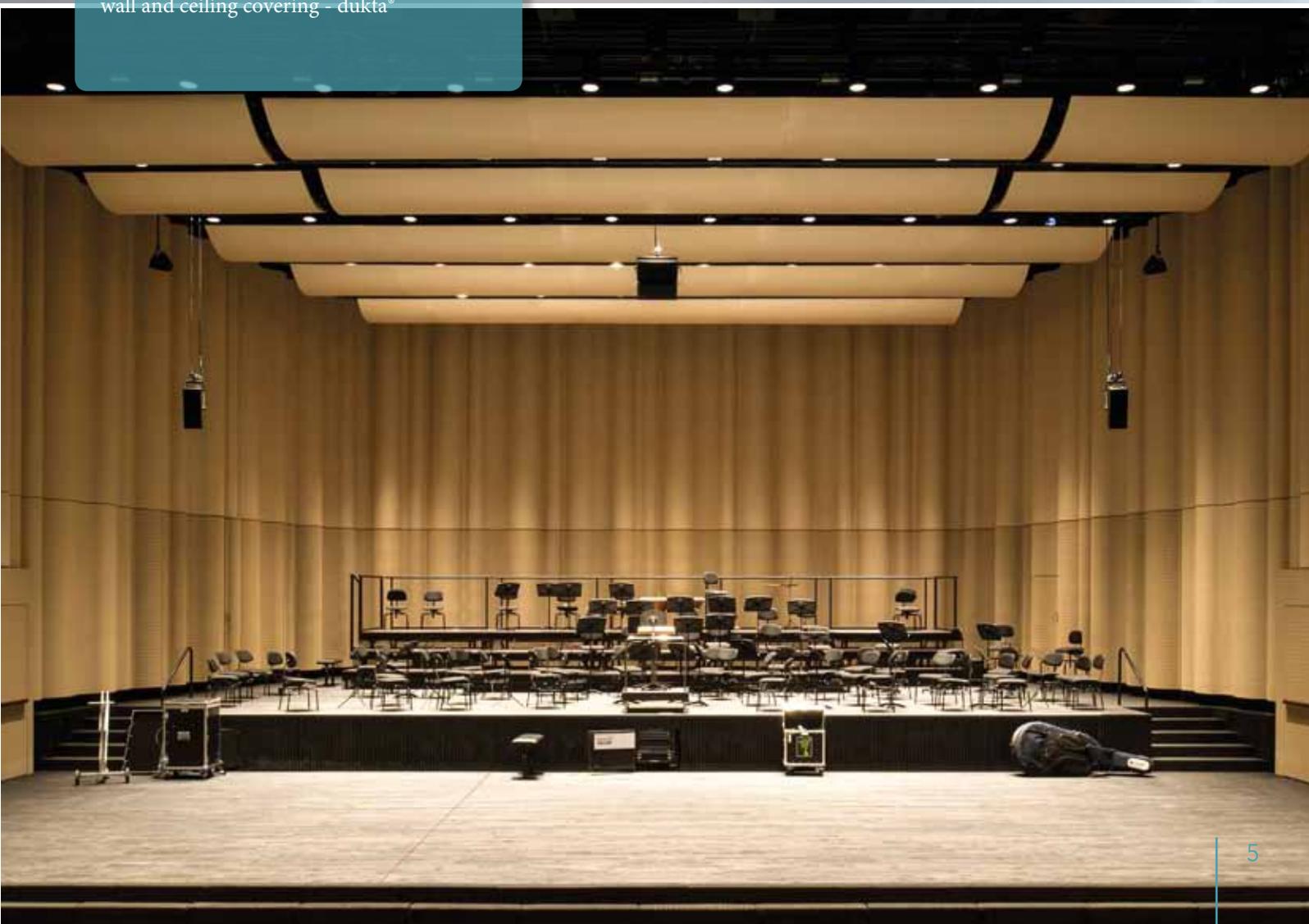
Dukta® walls and wavy ceilings reach high absorption values in all frequencies while other products only in a limited frequency range.





**fk** DŘEVĚNÉ LIŠTY Vic(e) masivního dřeva

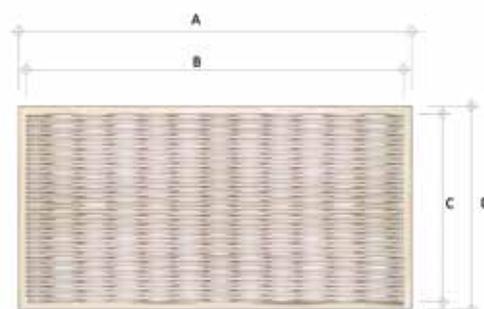
partition wall- dukta® JANUS in black color MDF  
wall and ceiling covering – dukta®



## dukta® - technical characteristics

Standard plank size (tolerance)

	external size (A x D)	utilization surface (B x C)	m <sup>2</sup> /plank
LINAR	2500 x 1250 mm	2350 x 1200 mm	2,82
JANUS	2500 x 1020 mm	2300 x 950 mm	2,19
SONAR	2500 x 1250 mm	2300 x 1200 mm	2,76
FOLI	2500 x 1250 mm	2400 x 1160 mm	2,78



Milling is performed always toward direction of wood fibres. Each plank has an uncoated Edge around the entire perimeter for purpose of transportation.

Surface: no surface processing (beech multiplex, 3-layer spruce - K60)

Plank's weight and thickness

	3-layer panel Spruce		MDF natur		MDF color*		multiplex buk		Air Permeability
	Thickness v mm	kg/m <sup>2</sup>	Thickness v mm	kg/m <sup>2</sup>	Thickness v mm	kg/m <sup>2</sup>	Thickness v mm	kg/m <sup>2</sup>	
LINAR			8	4	8	5	9	4	ca. 26%
JANUS	27	7	25	10,5					ca. 33%
SONAR			8	4	8	5			ca. 26%
FOLI			8	5	8	6			ca. 13%

\* Standard color is black. Other colors – on demand. Check other color schemes on page 13.

Bending radius depends on the type of milling, material and thickness of panel

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



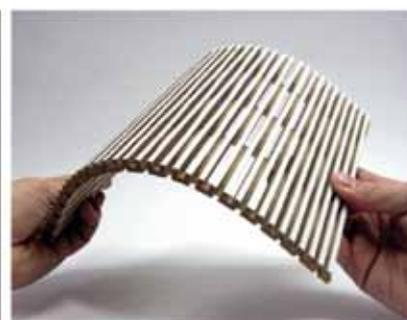
Properties of material: thermal stability and emission are compliant with standard values of used material, for example: Massive wood AB / B AW100, MDF E1 panel and IF20 / E1 multiplex.

MDF / MDF colour: wooden input material is subject to natural color divergencies

3-layer spruce: homogenous wood image, potential knots, perforations, minor color divergencies and minor cracks on plank's edges. Possible cracks in arcs or damages bruising after milling.

Wood layers are collected completely and after milling gaps between the layers may occur. Crack in arc are already present in the input material and are acceptable.

Multilayer panels: minor burrs in the plank's milling groves are acceptable.



Storing panels: In cold and dry conditions, on solid, even and clean ground, covered, do not expose to direct sunlight!

Processing: Dukta® panels can be processed using conventional tools for wood, cutting, milling, drilling and grinding. Always use new and sharp tools.

# Universal use

These wooden, single-sided or two-sided wooden panels provide high elasticity in shaping thanks to its elasticity and transparency. They are suitable for untypical uses like sound-absorbing walls, and also standalone partitioning elements. Thanks to high open surface (15-40%), dukta® panels are suitable not only for covering air conditioners or heaters, but also for dimming or lightening up rooms.

Dukta® panel can be also used as flexible construction material.

 **DŘEVĚNÉ LIŠTY** Víc(ℓ) masivního dřeva



 **DŘEVĚNÉ LIŠTY**



dukta® LINAR MDF as wall covering (on the left photo) as light shadow

dukta® JANUS as constructional material for product presentation.



Extensive selection of themes :

dukta® print



In order to develop the possibility to use this material in interior design, we offer now new digital printing plates: dukta® print

Imprint can be realized on any type of standard milling. Select from our standard templates menu or use the individual printing offer according to Your personal design



Standard themes offer:

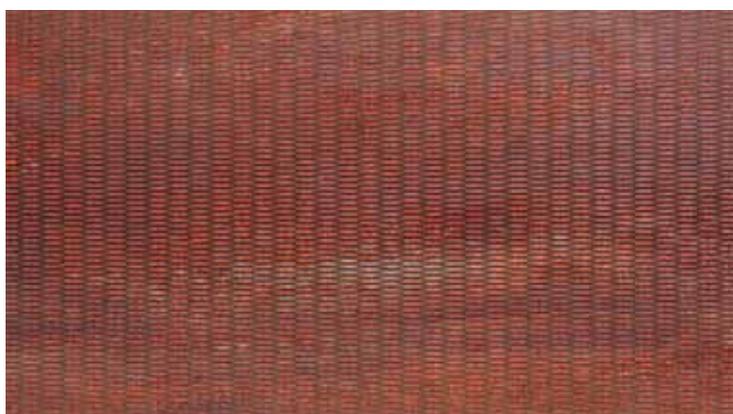
wood – brown



wood – grey

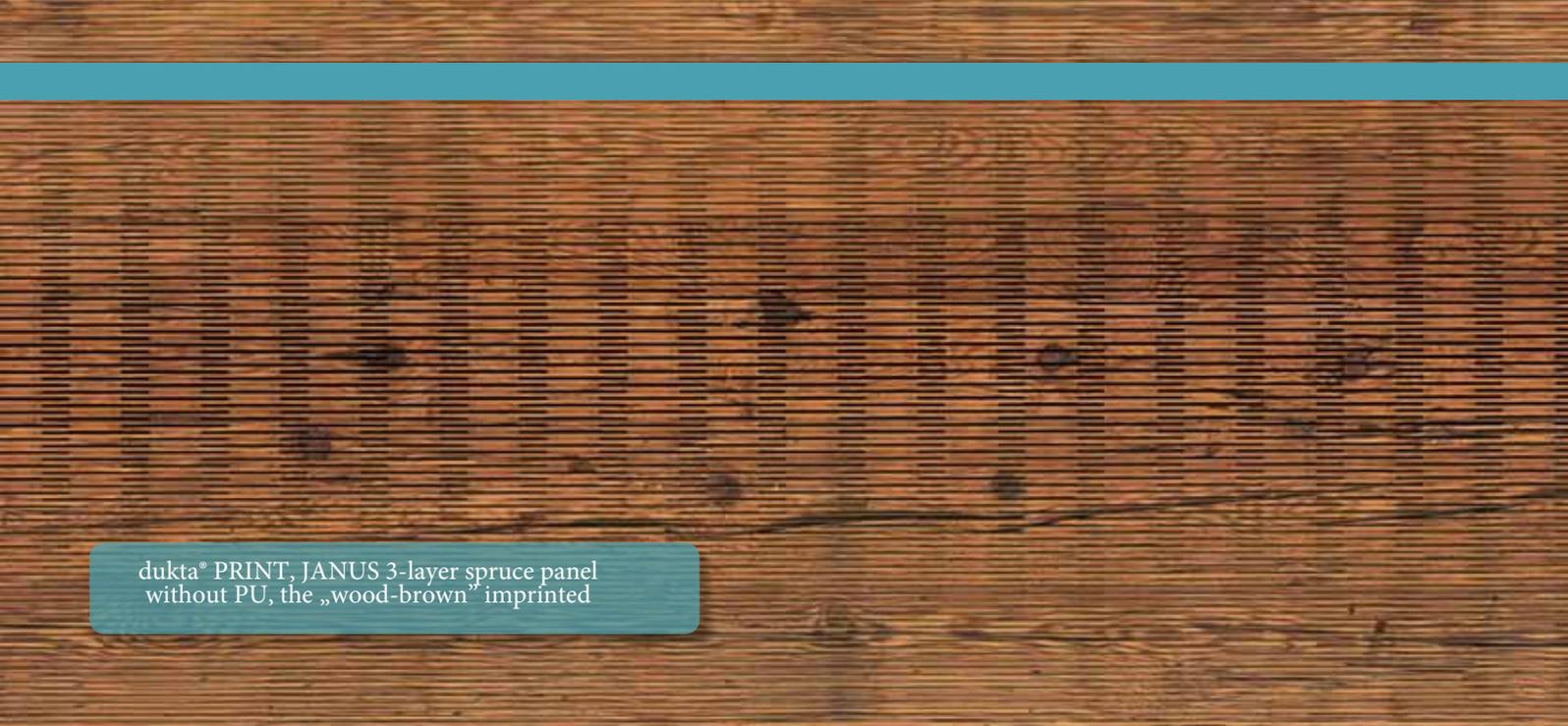


corrosion

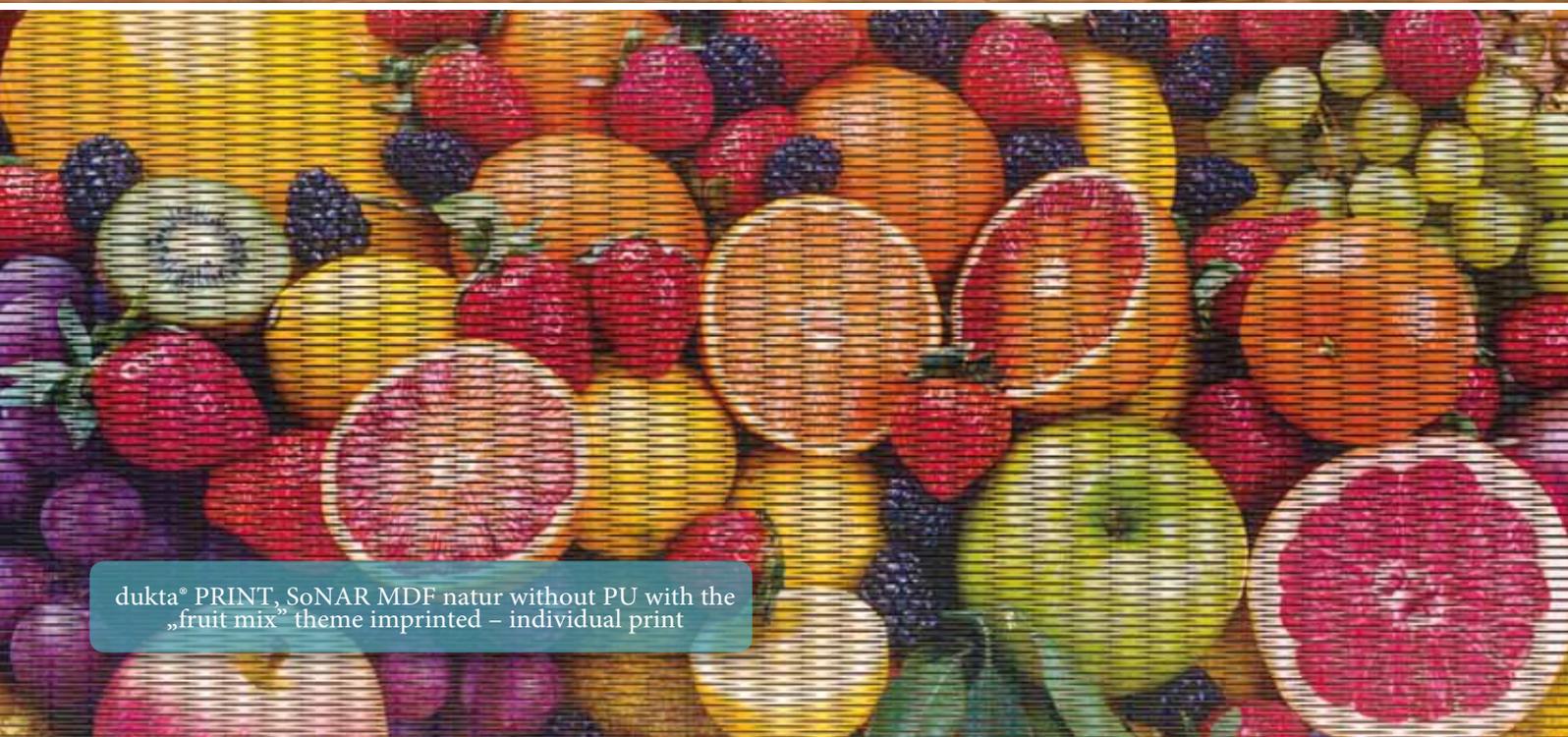


Example: dukta® PRINT, LINAR beech plywood, imprinted with the „corrosion” theme  
Note: Imprinting of a chosen theme on milled panels is not identical to the input image and differences in color may appear.

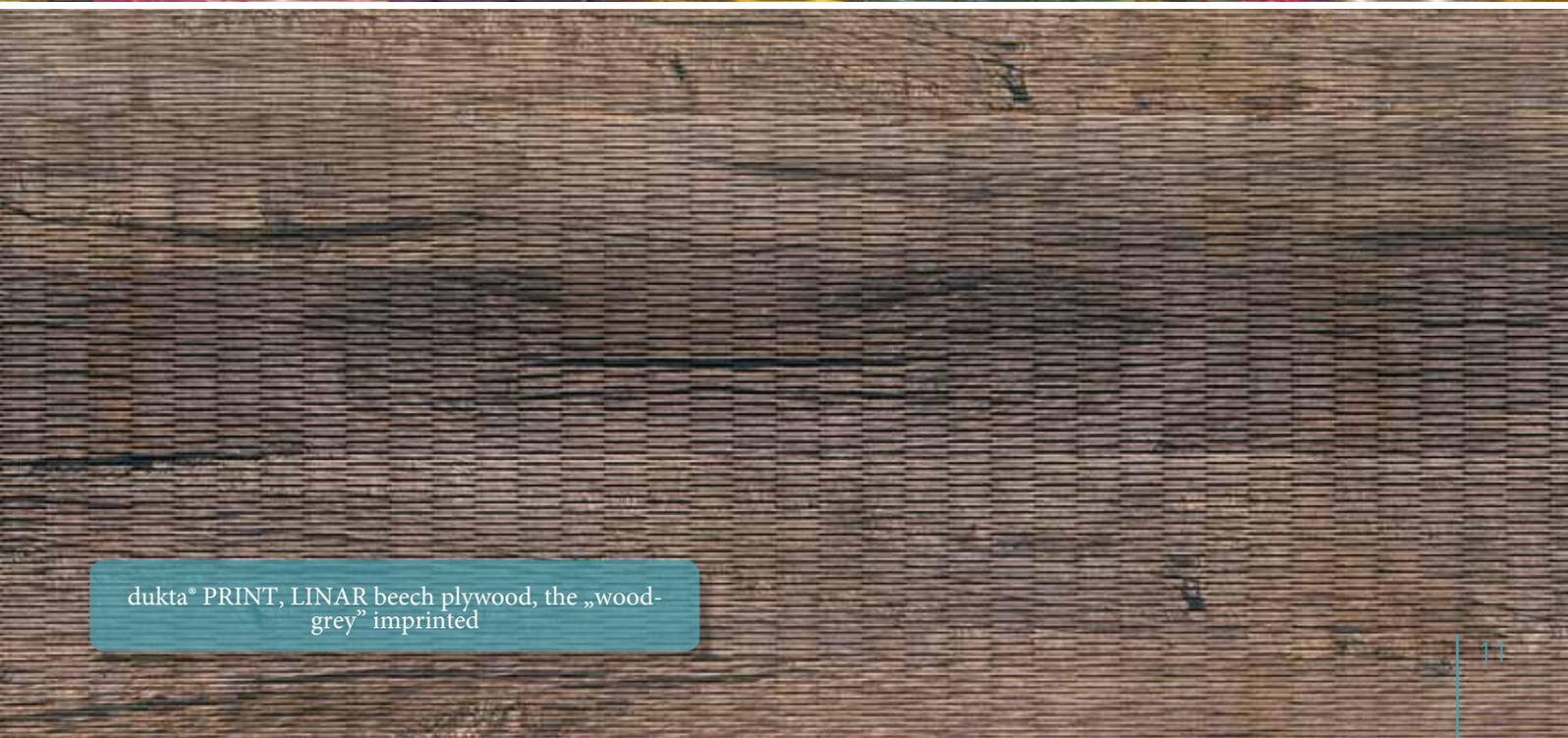




dukta® PRINT, JANUS 3-layer spruce panel  
without PU, the „wood-brown” imprinted



dukta® PRINT, SoNAR MDF natur without PU with the  
„fruit mix” theme imprinted – individual print



dukta® PRINT, LINAR beech plywood, the „wood-  
grey” imprinted

# Production on request



Besides our standard program we continually develop specialised solutions which fulfil specific requirements of our clients.



## Sauna panels

Input material for production of planks is European plywood with aluminum (thickness of planks – 16 mm) with single-side extrusion in optional patterns: oak, aspen or eastern black walnut.

Side view with LINAR milling, back side with aperture.

Field of utilization of panels: construction of high-quality saunas, thermal chambers or wells (chamber construction)

Size of planks: 2500 x 1250 mm

Utilization surface : 2350 x 1200 mm



Saunaboard dukta® LINAR wood veneer (side view)



Backside is engraved





## Coated surfaces

Practically all dukta® panels can be delivered with coated surface.

For more diverse color pallet, color layers are also possible (RAL).



## Fire protection

In case of objects requiring special protective measures, dukta® panels can be milled from fire-resistant MDF boards. Additionally, fire-rated spraying can be applied. If you are interested, please send us your requests.



## MDF COLOR

In our standard program we offer MDF panels in black, gray or light-grey colors from 5 types of planks (JANUS - 25 mm or LINAR, FOLI, SONAR - 8 mm)

Delivery time: 4 weeks

In other color versions (see picture) planks are available (LINAR, FOLI, SONAR - 8 mm) for ordering from 20 planks.

Delivery time: 12 weeks

DUKTA® panels with one-side milling  
LINAR (engraving, plank's thickness – 19 mm)  
We deliver if minimal order is 5 pieces.



Delivery time: 5 weeks

# dukta<sup>®</sup> furniert

For production of furniture and interior equipment we offer dukta<sup>®</sup> veneer panels which provide pleasant visual effects in interiors.

Dukta<sup>®</sup> panels can be ordered without finishing or coated.

Input material of triple-layer spruce or an MDF board. Dukta<sup>®</sup> veneer is especially impressive in connection with coloured MDF.



Furniture doors – panel LINAR,  
LINAR, black MDF, oak  
veneered without PU

# dukta® overview off the offered program

Type	Material	Panel size in mm	Utilization surface in mm	Thickness in mm	Min. quantity	Term of realization
<b>Standardní program</b>		<b>d × s</b>	<b>d × s</b>			
JANUS	3-layer spruce MDF natur	2500 × 1020	2300 × 950	27	1 plank	at storage
		2500 × 1020	2300 × 950	25	1 plank	at storage
	MDF color black, grey, light grey	2500 × 1020	2300 × 950	25	5 planks	4 weeks
LINAR	MDF natur	2500 × 1250	2350 × 1200	8	5 planks	4 weeks
	MDF color black	2500 × 1250	2350 × 1200	8	1 plank	at storage
	MDF color grey, light grey,	2500 × 1250	2350 × 1200	8	5 planks	4 weeks
	MDF other colors	2500 × 1250	2350 × 1200	8	20 planks	12 weeks
	Multiplex buk	2500 × 1250	2350 × 1200	9	1 plank	at storage
SONAR	Multiplex buk	2500 × 1250	2300 × 1200	8	1 plank	at storage
	MDF color black, grey, light grey	2500 × 1250	2300 × 1200	8	5 planks	4 weeks
	MDF other colors	2500 × 1250	2300 × 1200	8	20 planks	12 weeks
FOLI	MDF natur	2500 × 1250	2400 × 1160	8	1 plank	at storage
	MDF color black, grey, light grey	2500 × 1250	2400 × 1160	8	5 planks	4 weeks
	MDF other colors	2500 × 1250	2400 × 1160	8	20 planks	12 weeks
<b>dukta® furniert</b>						
JANUS (two-side)	3-layer spruce panel without PU, Oak or eastern black walnut veneer	2500 × 1020	2300 × 950	28	5 planks	6 weeks
	MDF natur, oak or walnut veneer	2500 × 1020	2300 × 950	26	5 planks	6 weeks
LINAR (one-side)	MDF natur, oak or walnut veneer	2500 × 1250	2350 × 1200	9	5 planks	6 weeks
	Black MDF, oak or walnut veneer	2500 × 1250	2350 × 1200	9	5 planks	6 weeks
<b>dukta® PRINT</b>						
Standard offer: wood – brown, wood – grey, corrosion	according to selection from the standard dukta panels	according to chosen type			5 planks	6 weeks
Individual imprinting	according to selection from the standard dukta panels	according to chosen type			5 planks	6 weeks**
<b>Production on request, other options</b>						
	coating (matt, transparent coating)				5 planks	+ 1 weeks
	color layer (RAL)				5 planks	+ 1 weeks
LINAR lower groove	MDF color other colors	2500 × 1250	2350 × 1200	19	5 planks	5 weeks
Sauna planks	alder plywood (veneered)	2500 × 1250	2350 × 1200	16	5 planks	

\* Small storage quantities, excluding periodic sale. In case on new production, the delivery time is 4 weeks. \*\* from delivered and approved samples



Perfect for sale and planning:  
A4 size samples on request.



We produce our panels from the highest quality wood



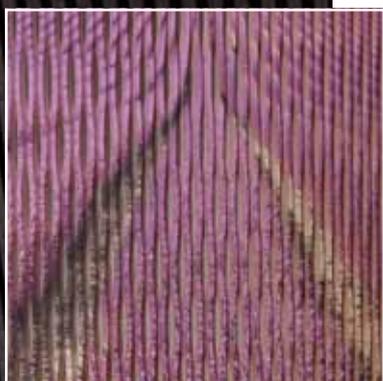
acoustic4you  
acoustic solutions



Ideal for regions acoustically sensitive like recording studios, cinemas, concert halls or training rooms.



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Multifunctional use for production of interior equipment (carpenters, furniture producers, ...)



**DŘEVĚNÉ LIŠTY**

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