

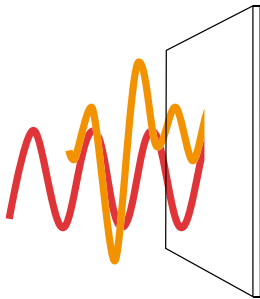
 **texdecor**
PANEL

Surface Panel

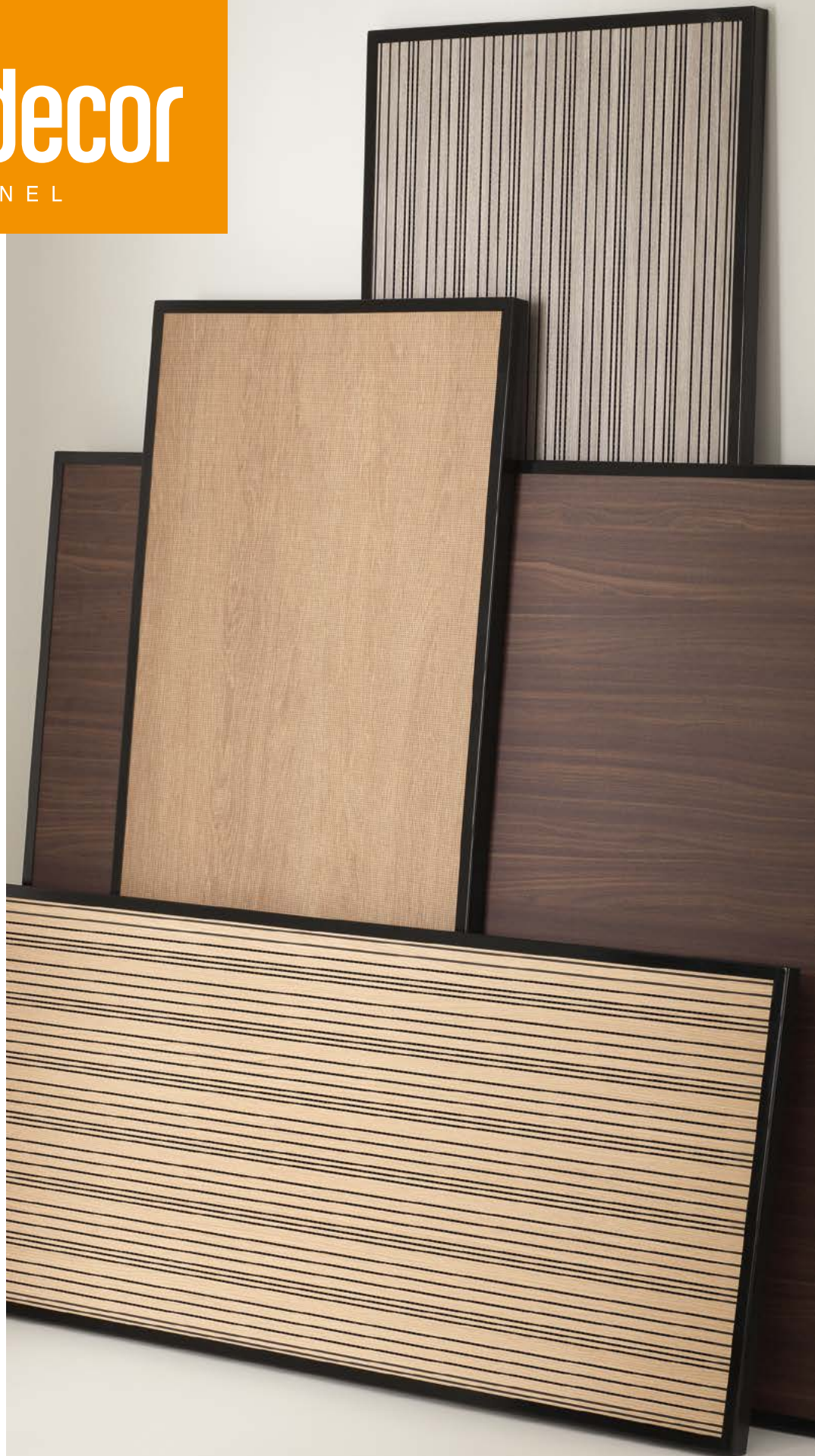
n°1. Wood

$\alpha_w = 0.6 / 0.7$

NRC = 0.75



ACOUSTIC
PANEL





THE INTEGRITY OF A PERFORATED WOOD PANEL COMBINED WITH ACOUSTIC PERFORMANCE

Laminated wood panels are often used as a design material to cover an entire surface, whether walls (cladding) or functional (cupboards, doors or furniture). These require the services of a carpenter. Such panels are mainly decorative, occasionally acoustic.

The uniqueness of the SurfacePanel is to propose decorative, perforated wood panels in lacquered aluminium frames to create beautiful acoustic objects. Ready-to-hang on the wall or suspend from the ceiling, they combine acoustic performance, easy installation and elegant decoration.

The quality of the materials creates a sophisticated acoustic solution for high-traffic areas : water-repellent MDF core, high pressure laminated surface, textured thermo-lacquered frame.



ACOUSTIC - WELCOMING - DECORATIVE

PERFORATED
PANELS
TYPE M

Surface Panel

n°1. Wood



Panels Surface Panel 1500 x 624mm, with rails, model Wood type M, references SPNW 9148 24 36 & SPNW 9148 76 18

PERFORATION



TYPE M :

Allover perforations with diameter 1,1mm and spacing of 3mm
Quantity of perforations : 10,5 %

PANEL DIMENSIONS :

1500 x 1270 x 40 mm
1500 x 624 x 40 mm

GRAINS & COLOURS

Light maple



SPNW 9148 17 22

Medium oak



SPNW 9148 24 36

Dark walnut



SPNW 9148 76 18



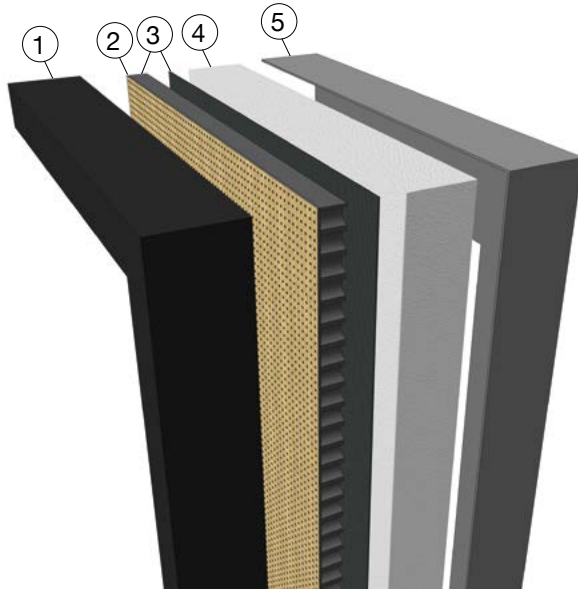
Non contractual colours
Samples available on request
www.texdecor.com

Surface Panel

n°1. Wood

PERFORATED
PANELS
TYPE M

Close-up detail



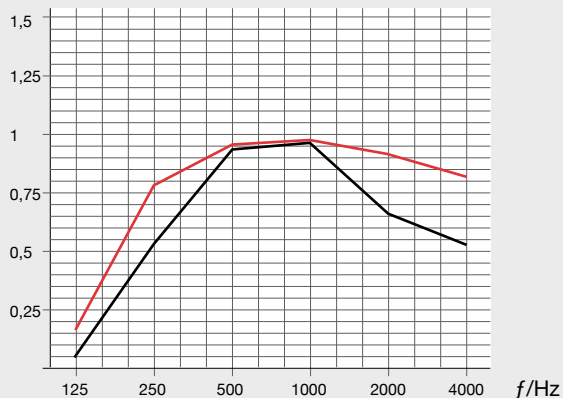
- 1 - Textured thermo-lacquered frame, front
- 2 - Laminated finish HPL 0.9mm
+ Micro-perforations diameter 1.1mm
- 3 - Black water-repellent MDF core 9mm
with back acoustic fibreglass textile
- 4 - Absorbent
- 5 - Aluminium frame, rear

ACOUSTIC TESTS FOR TYPE M PERFORATED PANELS

Equivalent sound absorption zone

Rectangle 1500 x 624 mm, without plenum

alpha w	NRC
0.7	0.75



Frequency (Hz)	125	250	500	1000	2000	4000
Absorption area of a 1500 x 624 rectangular panel with a 20 cm plenum	0.17	0.78	0.96	0.98	0.92	0.81
Absorption area of a 1500 x 624 rectangular panel without plenum	0.1	0.52	0.94	0.96	0.66	0.53

Equivalent absorption area : $A = \alpha_w \times \text{panel surface}$
Its average is calculated in frequency bands 500, 1000 and 2000 Hz.

The reverberation duration (T_r) of a space with volume (V) is calculated using the Sabine formula : $T_r = 0.16$

Shapes	Dimensions (in mm)	Average equivalent sound absorption area (in m ²) with a 20 cm plenum	Average equivalent sound absorption area (in m ²) without plenum
Rectangle	1500 x 624 x 40	0,95	0,85
Rectangle	1500 x 1270 x 40	1,9	1,7

GROOVED
PANELS
TYPE Dr

Surface Panel

n°1. Wood



Panels Surface Panel 1500 x 624mm, with rails, model Wood type Dr, reference SPNW 9148 46 09

GROOVING



TYPE Dr :

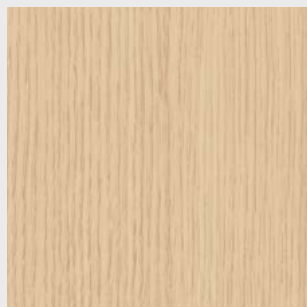
Irregular 2,8mm grooves
Quantity of grooves : 8,75%

PANEL DIMENSIONS :

1500 x 1270 x 40 mm
1500 x 624 x 40 mm

GRAINS & COLOURS

Light oak



SPNW 9148 96 02

Grey ash



SPNW 9148 46 09

Wengé



SPNW 9148 67 10



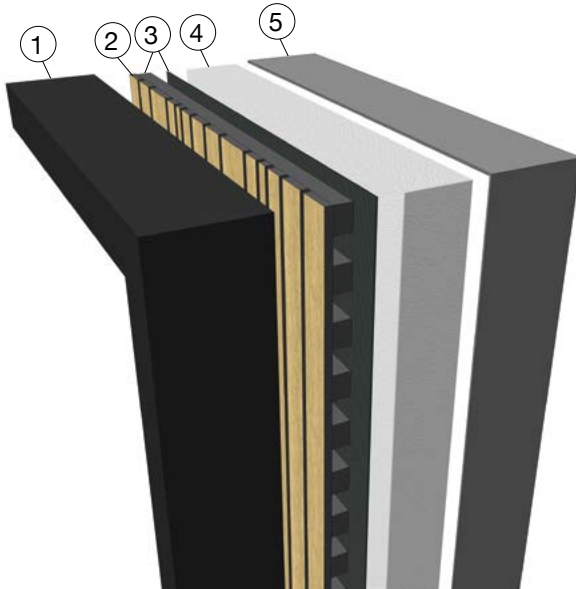
Non contractual colours
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Surface Panel

n°1. Wood

GROOVED
PANELS
TYPE Dr

Close-up detail



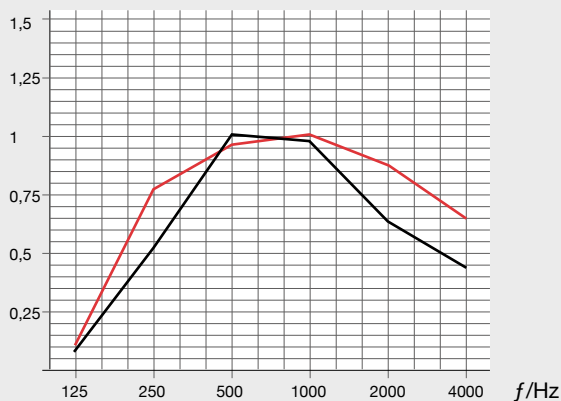
- 1 - Textured thermo-lacquered frame, front
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+ Micro-perforations diameter 1.1mm
- 3 - Black water-repellent MDF core 9mm
with back acoustic fibreglass textile
- 4 - Absorbent
- 5 - Aluminium frame, rear

ACOUSTIC TESTS FOR TYPE Dr GROOVED PANELS

Equivalent sound absorption zone

Rectangle 1500 x 624 mm, without plenum

alpha w	NRC
0.6	0.75



Frequency (Hz)	125	250	500	1000	2000	4000
Absorption area of a 1500 x 624 rectangle with a 20 cm plenum	0.11	0.77	0.97	1.01	0.88	0.65
Absorption area of a 1500 x 624 rectangle without plenum	0.09	0.53	1.01	0.98	0.64	0.44

Equivalent absorption area : $A = \alpha_w \times \text{panel surface}$
Its average is calculated in frequency bands 500, 1000 and 2000 Hz.

The reverberation duration (T_r) of a space with volume (V) is calculated using the Sabine formula : $T_r = 0.16$

Shapes	Dimensions (in mm)	Average equivalent sound absorption area (in m ²) with a 20 cm plenum	Average equivalent sound absorption area (in m ²) without plenum
Rectangle	1500 x 624 x 40	0,95	0,88
Rectangle	1500 x 1270 x 40	1,9	1,76

FITTING METHODS
& SHAPES

Surface Panel

n°1. Wood

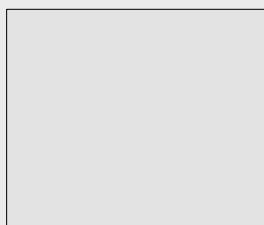


Panels Surface Panel 1500 x 1270mm, using rails and slings, model Wood type M, reference SPNW 9148 76 18

2 SHAPES



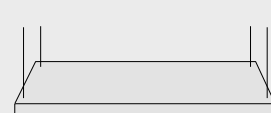
1500 x 624 x 40 mm



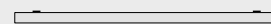
1500 x 1270 x 40 mm

3 FITTING METHODS

Ceiling



Suspended from the ceiling using cables



Fixed to the ceiling using rails

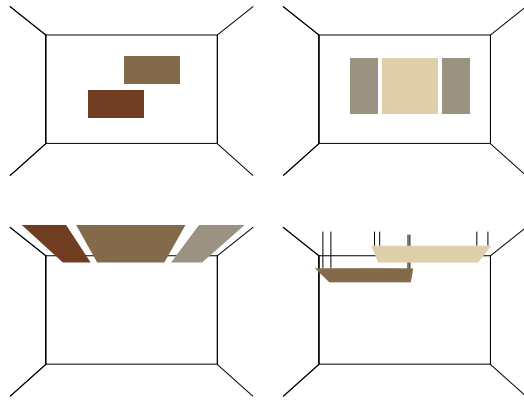
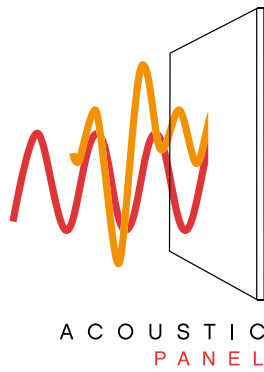
Wall



Fixed to the wall using rails



Panels Surface Panel 1500 x 624mm using rails, model Wood type M,
references SPNW 9148 24 36 & SPNW 9148 76 18



THE BENEFITS OF USE

AESTHETIC :

Surface Panel is a new chapter in the Texdecor range of decorative acoustic solutions.

Panel consisting of a laminated surface available on 6 muted and elegant woodgrains, it is a high-end alternative which rewrite the rules regarding layout whilst offering a new modularity.

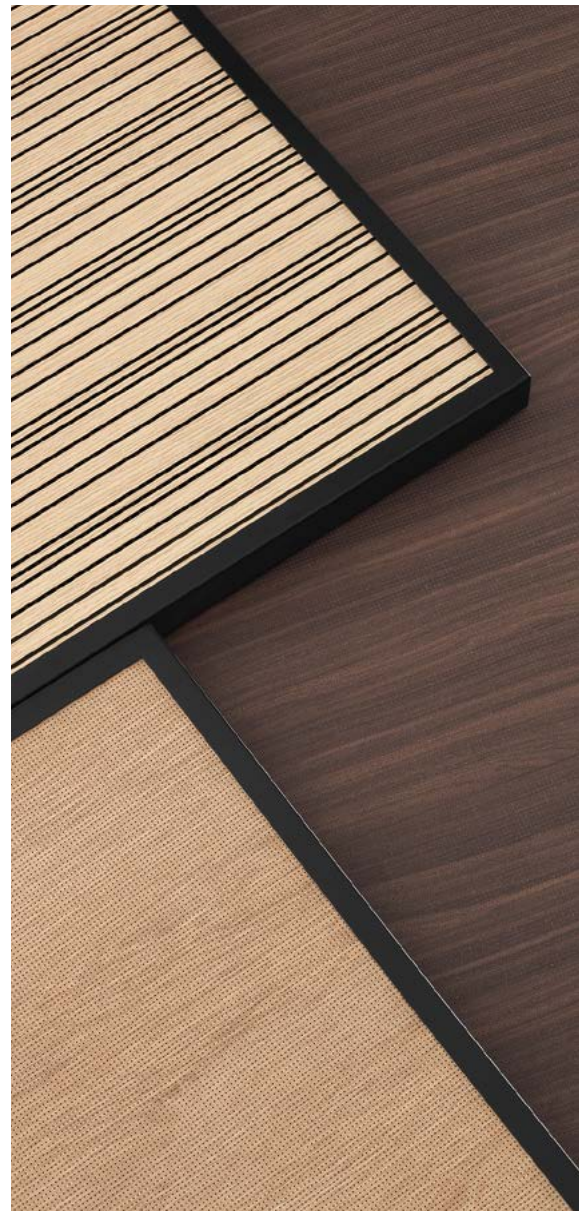
Both technically and acoustically performant, the perforations create both shading and light which transforms the surface. Each woodgrain has been selected to suit the grooves or perforations of the laminate. The shaded pattern and the veins of the wood form the personality and the visual intensity of the panel.

With its multitude of shapes, finishes and perforations, Surface Panel provides the possibility to arrange, modulate and combine multiple surface, to mix the materials to create personalised marquetry : graphic looks enhanced by the sophistication of a lacquered frame.

SUITABILITY :

The quality of finish of these panels make them particularly suitable for the following:

Meeting rooms and conference halls – Offices – Entrance areas, hotel lobbies – Reception spaces – Restaurants – Concert halls – Communal area, corridors, restrooms





Panels Surface Panel 1500 x 624mm, using rails, model Wood type Dr, reference SPNW 9148 96 02

ACOUSTIC PERFORMANCE :

Model type M = alpha w 0.7
 Model type Dr = alpha w 0.6

The panel combines the resonance principle of the Helmholtz resonator, thanks to the surface perforation and the cavities created in the core, together with the absorption qualities of a thick layer of non-woven fibres. The type of perforation and the mounting, with or without plenum, allow the architect to choose the most suitable acoustic correction solution for the project.

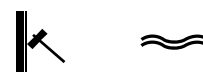
SAFETY AND ENVIRONMENT :

- Absorbent fire rating B S1 d0 and Oekotex label
- Wood panel fire rating B S1 d0



RESISTANCE & MAINTENANCE :

The panels are high-pressure laminated with a water-repellent MDF core and resin-impregnated decors, making them extremely scratch-resistant and impact-resistant, and easy to clean.



The frame is textured thermos-lacquered, guaranteeing strength and durability.

EASY INSTALLATION :

The panels are supplied ready-to-hang, requiring no cutting or other inconvenience on site. Quick and easy to install, this operation creates minimal disruption in the room.

3 fitting methods possible :

- Ceiling, fixed using rails or suspended using cables
- Wall, fixed using rails

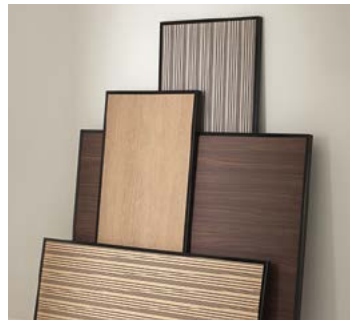
INSTALLATION GUIDE



DESCRIPTION



2 models



6 grains

CEILING FITTINGS / SLINGS



Using vertical cables metal colour



Cable option :
white or black colours

CEILING FITTINGS / RAILS



White ceiling rail

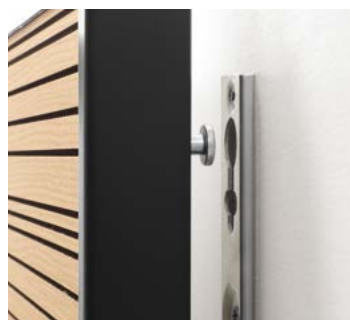


Using the white ceiling rail

WALL FITTINGS



Aluminium wall rail



Using the aluminium wall rail

Panels Surface Panel 1500 x 624mm, using rails,
model Wood type Dr, reference SPNW 9148 96 02

FRAME / STANDARD FINISHES



Textured black finish
Frame dimensions :
front = 2 cm
depth = 4 cm



Wall fixing version
Back of frame and absorbent



Ceiling fixing version
Back of frame and absorbent



Fastening to be screwed to the frame

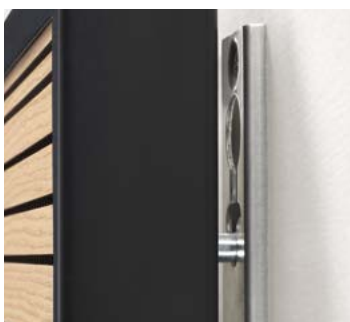


Sling hook



Ceiling fixation using white rail

OPTIONS / PERSONALISED FRAMES



Wall fixing using aluminium rail



Ral colours upon request and
dependant on quantity



Example RAL 1001

SELECTION GUIDE

1 Choose the model

type M



type Dr

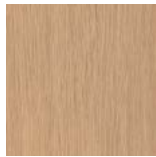


2 Choose the finish

type M



SPNW 9148 17 22



SPNW 9148 24 36



SPNW 9148 76 18

type Dr



SPNW 9148 96 02



SPNW 9148 46 09



SPNW 9148 67 10

2 Choose the shape



1500 x 624 mm



1500 x 1270 mm

3 Choose the application and fitting methods

WALL

RAIL



Colour

CEILING

RAIL



Colour

SLING



Colour

Ex : Panels Surface Panel 1500 x 624 mm, using rails, model Wood type Dr, reference SPNW 9148 96 02

Surface Panel



1500 x 624 mm



Model type Dr



Rail



Finished product

Texdecor,

A complete acoustic range for your interior spaces : panels & acoustic wallcoverings

Our designers create decorative acoustic collections to create unique looks with these complementary products, adapted to the available area and the acoustic requirements.
The wallcoverings coordinate perfectly with the acoustic panels to create a harmonious look with decorative acoustic functionality.

Presenting

Signature Wood,

A wallcovering inspired by the natural imprint and essence of wood : orme (elm) and noyer (walnut).

Combining acoustic comfort and the beautiful look of fine, jersey knitwear, SIGNATURE is a line of tactile and visual acoustic products, blending sensorial comfort with harmonious and distinguished decor. Its supple nature gives a superb print quality as well as a smooth and silky feel. An ideal finish for elegant and welcoming spaces.

Alpha w 0.25 | width 140 cm | thickness 5mm



Acoustic wallcovering Signature Wood
Noyer design | reference 9144 10 32

Acoustic wallcovering Signature Wood
Marqueterie design | reference 9143 11 35

Find our complete range of acoustic panels AirPanel / Acoustic Range 0.7



1 sided acoustic panels



2 sided acoustic panels



Choice of textiles and colours for covers



Lighting selections



Digital printing
Print'AirPanel
Images Vol.1 & 2



Totem

Download the brochures,
and the technical information
Order your free samples

on www.texdecor.com

TEXBROSPNWGB