

KNAUF FIRELINE

The combination of creativity and security



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WHEN KNAUF DO SURFACES THEY DO THEM WITH A SYSTEM. WELCOME TO KNAUF DESIGN.

Based on many years of expertise in the production of highly compressed and extremely durable gypsum fibre board, Knauf Design are renowned for pioneering creative ideas in the refinement of different surface materials. The result is the creation of a highly design-oriented space comprising the highest standards in fire resistance and acoustic quality. They prove their worth wherever consistency of the visual effect and the reliability of a system is an issue. This could be in communal areas of buildings and other premises, in areas dedicated to health and wellness, elegant shop designs, hotels or within the catering sector. We understand design quality as a process through which we create our own decor that is as good for trendy collections as it is for customized solutions. As a partner for planners, architects, trade dealers, installers, industry in general and as a reliable system supplier, we offer the highest levels of compliance to approvals, quality and feasibility.

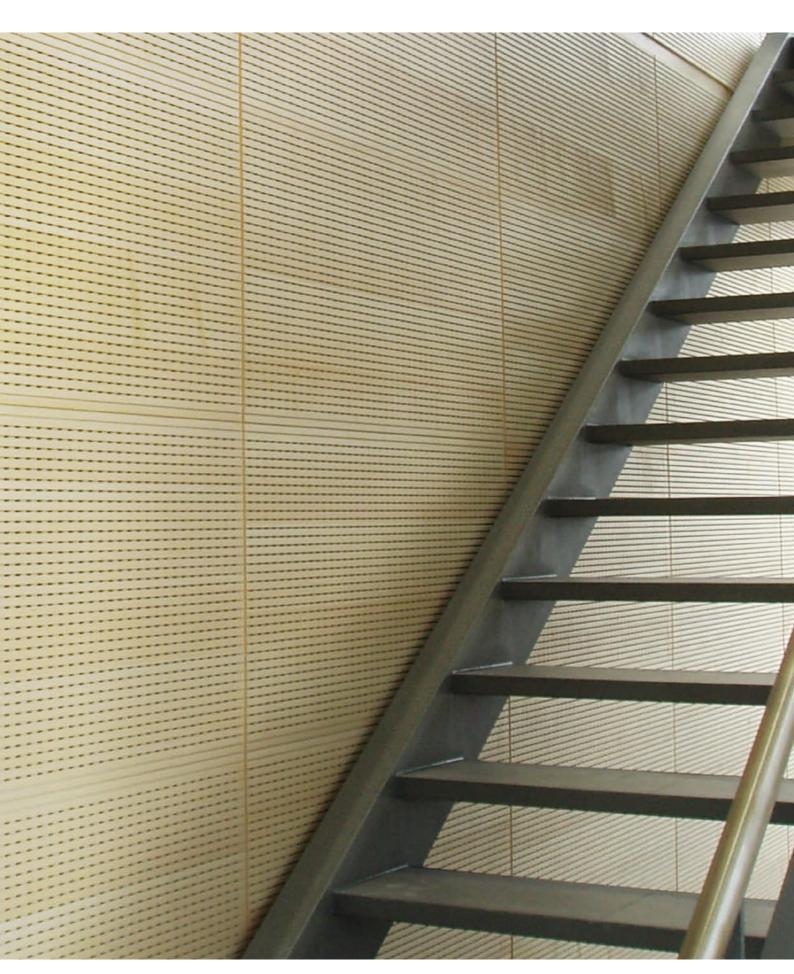


Robust and extremely resilient panel materials with a diverse range of design surfaces for creative and high-performance partition and ceiling systems in public buildings, for escape routes, meeting areas, hospitals, high-rise buildings and sports halls. Wood and laminate surfaces are unique, i.e.: non-combustible gypsum fibre board with real wood veneer or laminate in the classification A2-s1, d0 according to EN 13501-1.

Good prospects for architects and planners.

The ground-breaking products from Knauf Design for partitions and ceilings grant a freedom of design expression and impress with their emphasis on functionality and safety.

Wherever high standards of design clash with technical specifications, our products are the first choice. Sophisticated reference objects show the diversity of the possibilities and inspire as creative solutions.



THE FIRELINE: IT'S NICE WHEN THE MOST CREATIVE SOLUTION IS ALSO THE SAFEST.

Interior design products specifically created for fire resistance are available under the **KNAUF FIRELINE** brand. The decisive features of this product line are not just in the certified board material, but also incorporate important factors such as a certified frame and any possible special properties such as acoustical performance and edge design. With **FIRE**- LINE, a fire protection system has been created that offers you the possibility of an individual design whilst at the same time ensuring the highest levels of safety. **FIRELINE** consists of two product groups: Raw panels and pre-coated panel materials, which are both state-of-the-art and are certified as follows in their fire protection class:



DESIGNBOARD 210 and GIFAmarine

- Gypsum fibre board at 1100 or 1500 kg/m³ density
- > Calibrated
- Both versions of the board are IMO certified for shipbuilding.



Gypsum fibre board in 1100 or 1500 kg/m³ density certified as a composite

DESIGNBOARD

 Coated: Laminated, veneered, varnished, printed, primed

230

 May be subsequently formatted and edged





Highly robust with impressive stability



Ideal for improving room acoustics

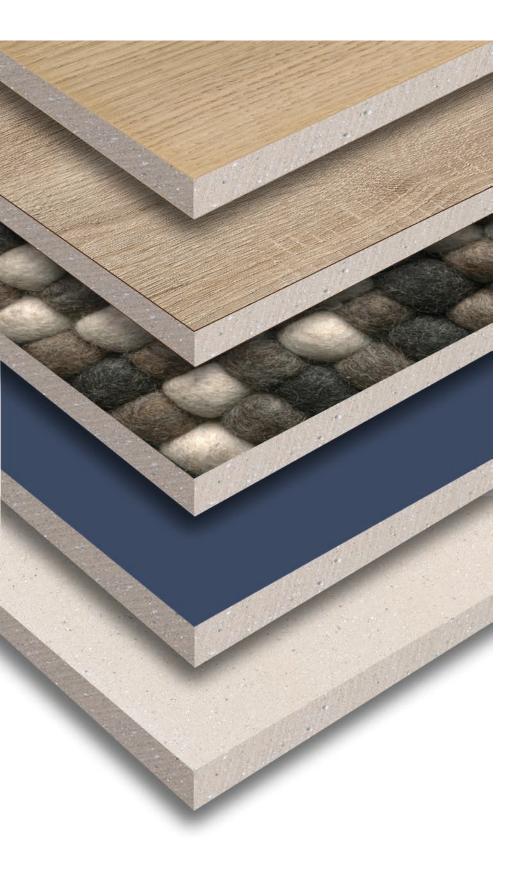


Varnish, surface structuring, coating or veneering, finishing as desired

Product overview

Fireline Designboards

FIRELINE DESIGNBOARDS 210, 230, GIFAMARINE



Fireline Designboards



DESIGNBOARD 230 LAMINATE

	Density in kg/m ³	
unit	≥1100	≥1500
laminates	HPL	
mm	3030 x 1200	2560 x 1200
mm	13.2 / 17.2 / 19.2 / 22.2 / 24.2 / 26.2	13.2 / 19.2
HPL (High Pressure Laminate) coated		
	laminates mm mm	unit ≥1100 laminates HF mm 3030 × 1200 mm 13.2 / 17.2 / 19.2 / 22.2 / 24.2 / 26.2

Building material classification





Classification

ACOUSTICS GRID	CONFI- GURATION	EDGING
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Fireline Designboards



DESIGNBOARD 230 WOOD

	Density in kg/m ³		n kg/m³
DESIGNBOARD 230	unit	≥1100	≥1500
Finish	Wood	Real wood veneer	
Standard formats	mm	3100 x 1260 2560 x 1260	2560 x 1260
Thicknesses	mm	12.6 / 16.6 / 18.6 / 21.6 / 23.6 / 25.6	13.2 / 19.2
Surface	calibrated / veneered / finished		
Building material classification	A2-s1, d0 according to EN 13501-1		





Classification

ACOUSTICS	GRID	CONFI- GURATION	EDGING
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Fireline Designboards



DESIGNBOARD 230 CREATIVE

	Density in kg/m ³		n kg/m ³
DESIGNBOARD 230	unit	≥1100	≥1500
Finish	Creative	Direct print	
Standard formats	mm	3100 x 1260 2560 x 1260	2560 x 1260
Thickness	mm	12 / 16 / 18 / 21 / 23 / 25	12/18
Surface	calibrated / primed / printed / finished		
Building material classification	A2-s1, d0 according to EN 13501-1		EN 13501-1





Classification

ACOUSTICS GRID	CONFI- GURATION	EDGING
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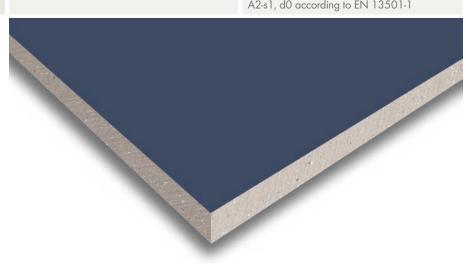
Fireline Designboards



DESIGNBOARD 230 PAINT

		Density in kg/m ³	
DESIGNBOARD 230	unit	≥1100	≥1500
Finish	Paint	Painted	
Standard formats	mm	3100 x 1260 2560 x 1260	2560 x 1260z
Thickness	mm	12 / 16 / 18 / 21 / 23 / 25	12/18
Surface	calibrated / primed / lacquered / finished		
Building material classification	A2-s1, d0 according to EN 13501-1		





Classification

ACOUSTICS	GRID	CONFI- GURATION	EDGING
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Fireline Designboards

DESIGNBOARD 210

		Density in kg/m ³	
DESIGNBOARD 210	unit	≥1100	≥1500
Standard formats	mm	3100 x 1260 2560 x 1260	2560 x 1260
Thickness	mm	12 / 16 / 18 / 21 / 23 / 25	12/18
Surface	raw, calibrated		
Building material classification	A1 according to EN 13501-1		
All Non-combustible			

Fireline Designboards

GIFAMARINE



		Density in kg/m ³	
GIFAmarine	unit	≥1100	
Standard formats	mm	2560 x 1260	
Thickness	mm	12 / 18	
Surface	raw, calibrated		
Building material classification		not combustible	

Proper use



non-combustible material according to SOLAS 74/88 Chap. II-2 Rule 3.33, latest version, MSC.97 (73) 7.2.3 (2000 HSC-Code)





NO COMPROMISE. SAFETY AND THE PERFECT SOUND.





Constructional fire protection can save lives. This is the reason why it's vital for buildings such as hospitals, meeting areas or schools.

The approved drywall system from Knauf Design classified acc. to EN 13501 is one hundred percent complaint with all legal requirements and prevents the rapid spread of fire.

We never compromise on safety. Apart from safety, the acoustics also play an important role in the room design.

Whether it's a church, sports hall or auditorium, every room requires its own unique sound concept.

For example in the concert hall: Here our wall systems project the sound into the last corner of the room and thus ensure the perfect listening experience.

And from their excellent acoustic effectiveness **DESIGNBOARDS 230** are the ideal choice for a classic broadband absorber.





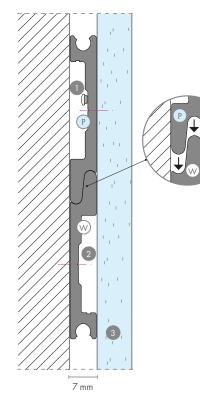
STRONG CONNECTION: WALL SYSTEM WITH MOUNTING GRID.

Perfect surfaces, inner values, everything that Knauf Design is known for. This is our pledge as professionals enabling us to provide clever systems facilitating easy and securely connected wall cladding. Comprising of the **DESIGNBOARD**, the wedge strip system, our DESIGNBOARD FIX System and the appropriate screws. We deliver the panels as desired: Laminated, veneered, lacquered or digitally printed, with slits or perforations.

The examples here show the wedge strip system:



Cross-section



The components

(W)

Wedge strip

Mounting on an existing,

stable and level wall with suitable fasteners



Recommendation: Use a cordless screwdriver with torque limiter. The screw must not be over tightened.



Euro screw for mounting on gypsum fibre board Cylinder head type B galvanized, 6.3 x 12 and 18 mm



Suitable fasteners for fastening to an existing wall

Products / panels of the FIRELINE



SCOPE OF CLASSIFICATION



KNAUF DESIGNBOARD 230 can be installed on-site with acoustically effective properties should they be required. Accordingly, the design and fire protection in A2-s1, d0 according to EN 13501-1 are not affected.

You can also choose different perforation and slit designs.

For more detailed information on this topic, please refer to our technical documentation.



KNAUF DESIGNBOARD 230 features classified installation grid systems. The classified material includes the invisible Knauf wedge strip and the DESIGNBOARD FIX system. For more information on this topic, please refer to our technical documentation.



KNAUF DESIGNBOARD 230 can be cut, milled, drilled and slotted to the required formats by the installer. This facilitates important adjustments without impairing the fire resistance A2-s1, d0 according to EN 13501-1. For more detailed information on this topic, please refer to our technical documentation.



KNAUF DESIGNBOARD 230 can be edged after configuration by the installer with the approved edging system from Knauf Design and is fire protection classified to EN 13501-1, A2-s1, d0. For more detailed information on this topic, please refer to our technical documentation.

All the described work steps may be carried out on in the factory and thus round off the possibilities of Knauf Design. If you have any questions regarding these possibilities we are available to assist you.

CEILINGS AND WALLS IMPOSE LIMITS BUT THE DESIGN IS WITHOUT LIMITS.

Within a fraction of a second there is a clear perception of how functional, safe and aesthetic a space feels. An essential factor is the design of the walls and the wall coverings. Knauf Design offers a wide ranging choice of surface coatings with gypsum boards and gypsum fibre boards: real wood veneer, HPL, decor paper, digital printing or varnish, and on request, smooth, perforated or slit styling. Sharpen and emphasize profile individuality: Knauf Design offers tailor-made manufacturing of drywalling systems for particularly sophisticated construction projects both during preparation and conceptual implementation. For unusual designs and material choices, we will find the best material solutions ensuring that design visions are not subjected to limitations.





IST FURNITURE LAY-OUT PLAN 24 A.C. ** Anus F No Contraction of the second s ANTRY C веряоом , 0 (1) (cia 4 NING AREA 58 ann KITCHEN 00 11 1001 suj O 0 • 4 иа 6 Е A . 22 pug L 1 . 個 tints St lŧ re res M

DESIGN DECOR

KDB 230 Laminates - Solid colours

KD-0130-XX-L	KD-0131-XX-L	KD-0133-XX-L	KD-0134-XX-L	KD-0135-XX-L	KD-0136-XX-L
Signal white	White	Bright ivory	Light grey	Dark grey	Black
KD-0137-XX-L	KD-0138-XX-L	KD-0139-XX-L	KD-0140-XX-L	KD-0141-XX-L	KD-0142-XX-L
Blue	Petrol	Silk grey	Beige	Brown	Anthracite
KD-0143-XX-L	KD-0144-XX-L	KD-0145-XX-L	KD-0146-XX-L	KD-0147-XX-L	KD-0150-XX-L
Light yellow	Yellow	Mint green	Green	Pastel yellow	Crimson

Laminates solid colour is optionally available with PE = pearl, M = matt or HG = high-gloss surface structure (xx \approx PE, M or HG)

KDB 230 laminates - Metal

KD-0116-BF-L Stainless steel



KDB 230 laminates - stone

Sandstone



Rust

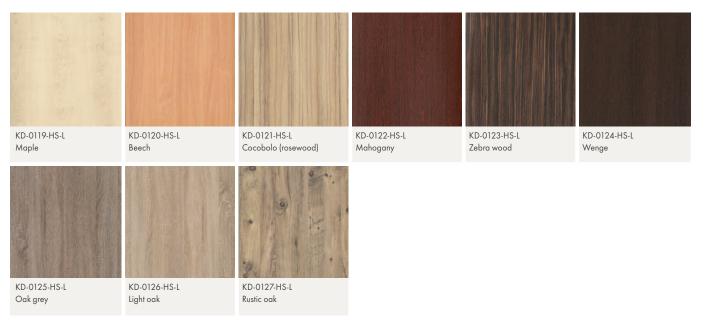
KD-0148-ST-L Dark sandstone

Laminate metal is provided with BF = buttler finish surface structure Laminate stone is provided with ST = stone surface structure

KD-0117-BF-L

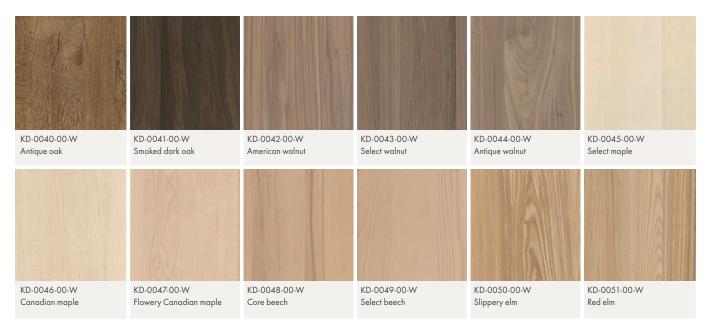
DESIGN DECOR

KDB 230 laminated - Wood

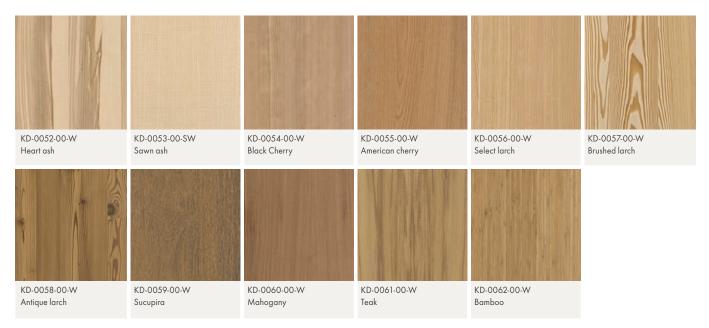


Laminated oak wood is provided with

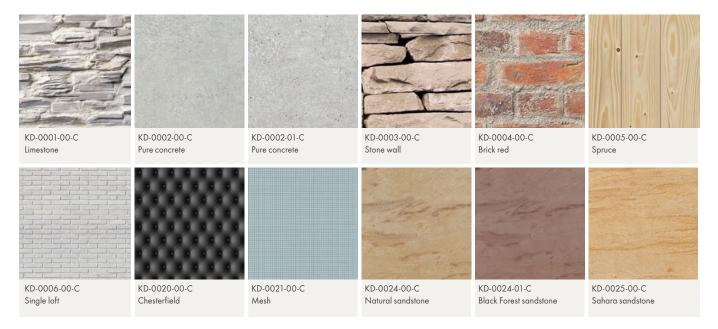
KDB 230 wood



KDB 230 Wood

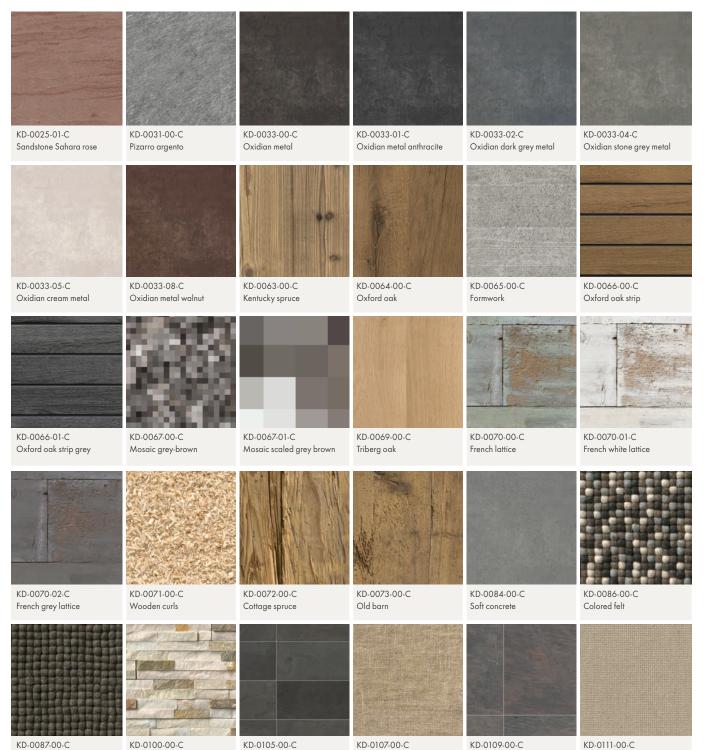


KDB 230 creative



DESIGN DECOR

KDB 230 Creative



Jute

Rosso nero tile

Linen

Plain felt

Quarry marble

Long slate tile

KDB 230 Creative



KDB 230 Paint

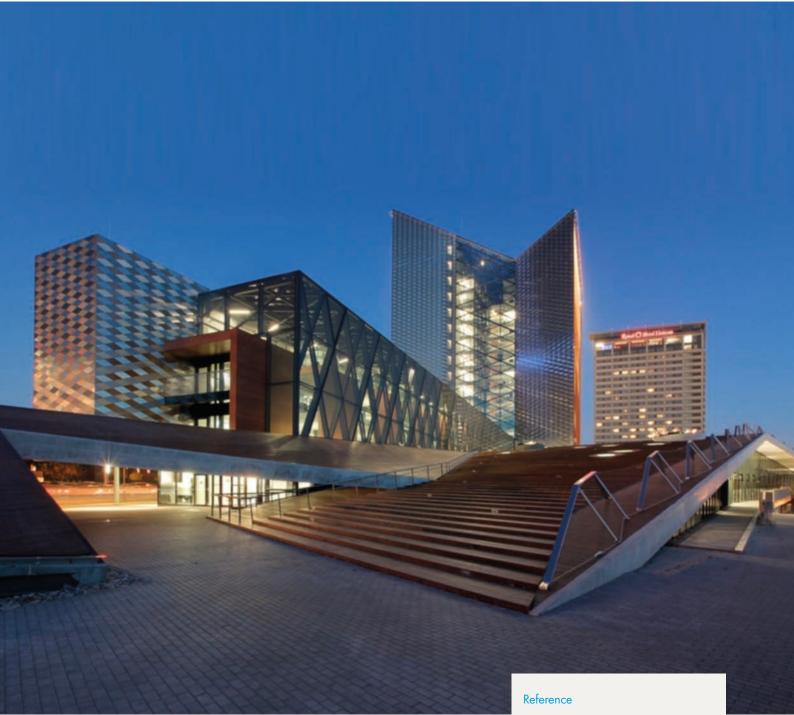
KD-0088-00-P	KD-0089-00-P	КD-0090-00-Р	KD-0091-00-P	KD-0092-00-P	KD-0093-00-P
RAL-1001 Beige	RAL-1013 Pearl white	RAL-1014 Ivory	RAL-1023 Traffic yellow	RAL-3005 Wine red	RAL-5003 Sapphire blue
KD-0094-00-P	KD-0095-00-P	KD-0096-00-P	KD-0097-00-P	KD-0098-00-P	KD-0099-00-P
RAL-5014 Pigeon blue	RAL-5023 Remote blue	RAL-7015 Slate - grey	RAL-7035 light - grey	RAL-7037 Dust - grey	RAL-7042 Traffic - grey
KD-0100-00-P	KD-0101-00-P	KD-0102-00-P	KD-0103-00-P	KD-0104-00-P	
RAL-8019 Grey - brown	RAL-9001 Cream - white	RAL-9004 Signal black	RAL-9010 Pure - white	RAL-9016 Traffic - white	

DARING DESIGNS OUTSIDE. PRACTICAL FUNCTIONALITY INSIDE.

Bold designs live through their stylish continuation on the interior. With **DESIGNBOARD 230**, walls and ceilings exceed their original functional purpose to become characteristically functional design elements. As with the construction of Swedbank in Lithuania, a landmark object for the Baltic republic. the latest EU standards, but which also meet the highest expectations of surface design. The **DESIGNBOARD** was exclusively veneered with the wood of Canadian Oregon oak. The result was a convincing effect from both the interior and exterior perspectives.

Here it was not just a matter of meeting multifunctional requirements that had been defined by the planners on site in advance, for example: Maintenance of escape routes, integration of ventilation elements and attention to







DESIGN

> Project:> Architect:> Product:

> Requirement:> Design:

> Installer:

Swedbank Lithuania Audrius Ambrasas Approx. 3,500 m² gypsum fibre board with real wood veneer (ceiling and wall cladding) in Oregon oak Non-flammable, design Andrius Peceliunas Nedlit International

FITTED ON THE VERY TOP.

Russia's most modern children's clinic in Moscow had to be completed to coincide with the International Day of the Child with no "ifs and buts". The project required extreme precision in its timing. Therefore, the project partners erected the framework of the building so that the boards with their acoustic function and the ceiling canopy could be fitted without delay.

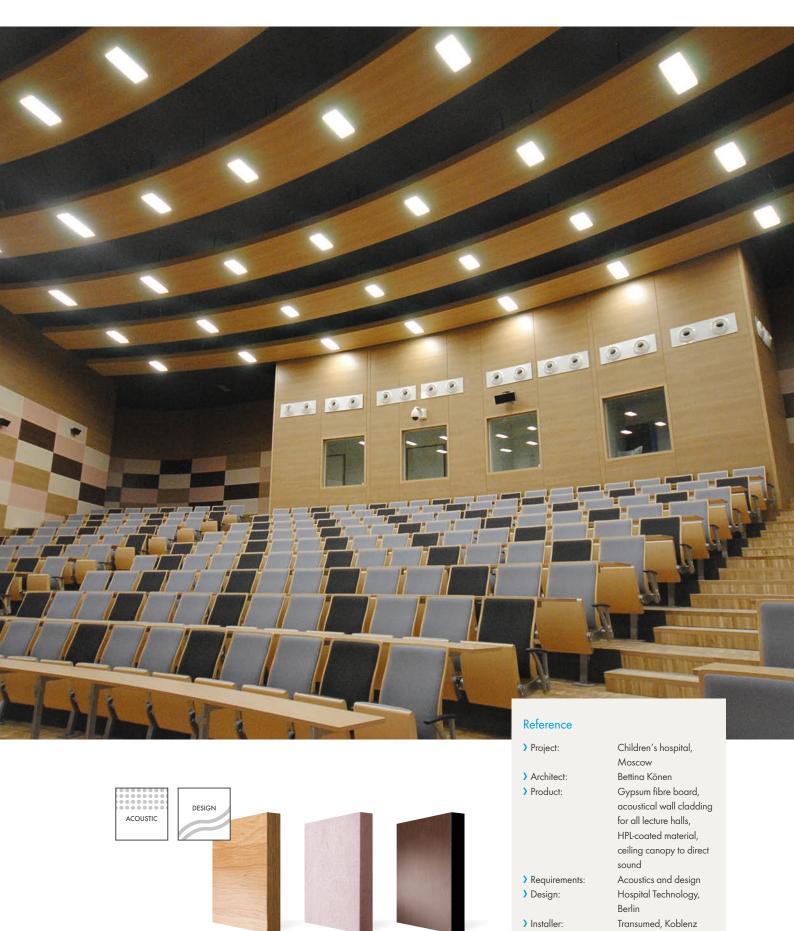
> The result: Fully on schedule.







Reference

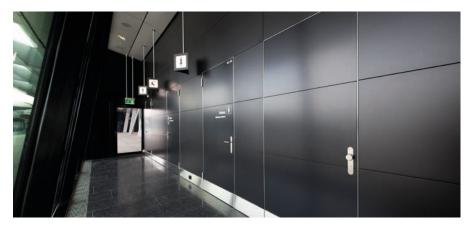


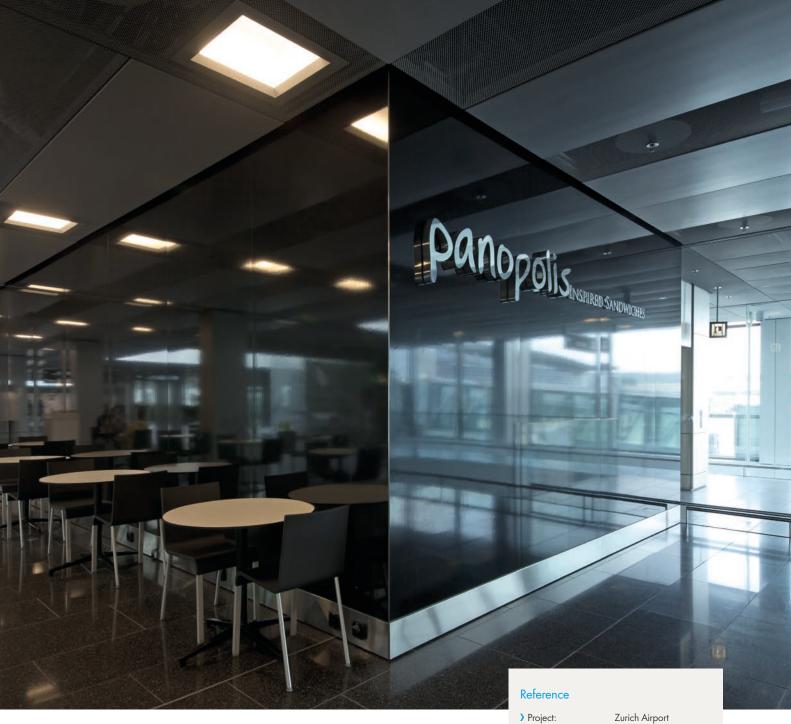
BRILLIANTLY SOLVED.

Elegant shell with a robust core: The walls of the boutiques in Zurich Airport posed an interesting challenge for the Knauf design surface experts. Some experimentation was required with several special coatings until the ultimate solution: An elegant shimmering outer skin, which was also compliant to the strict safety requirements.

Result: Sparkling eyes. Not just for the architects.









Zurich Airport Bosshard Architecture Baumanagement GmbH Gypsum fibre boards, HPL coated including RAL standard paint finish Glossy, robust surface Burckhardt+Partner AG, Basel Berchthold AG

> Architect:

> Product:

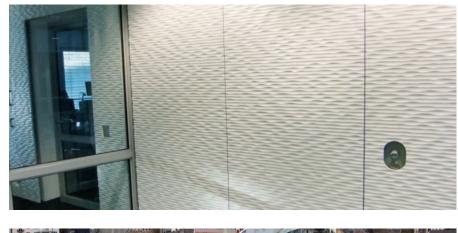
> Installer:

> Requirement:

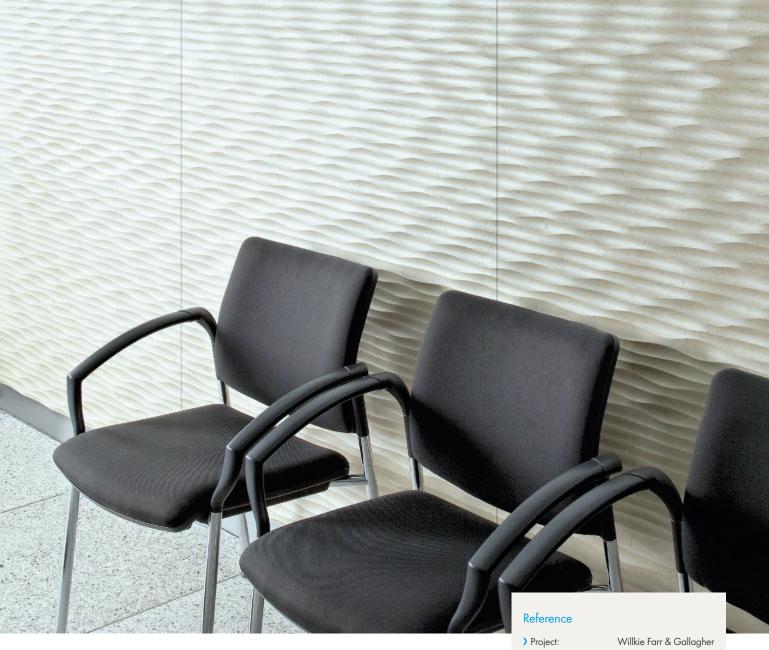
> Project planning:

SOMETIMES THE ART IS NOT JUST HANGING ON THE WALL BUT IS THE WALL ITSELF.

The spectacular wave form of the Willkie Farr & Gallagher Building in Frankfurt causes an external sensation that continues on the interior. Of course it fully complies with all building physics and non-combustibility specifications. The desired visual effect was obtained by cutting the elements in waves and applying a RAL paint finish. Result: Everything appears to be from a single cast!











> Project:	Willkie Farr & Gallagher
	"The Wave", Frankfurt
> Architect:	Just/Burgeff Architekten
	GmbH
> Product:	Gypsum fibre board
	- varnish, RAL paint finish,
	wave form partition
> Requirement:	Designed, non-combusti-
	ble, acoustics
Project planning:	Just/Burgeff Architekten
	GmbH
> Installer:	Schmid GmbH

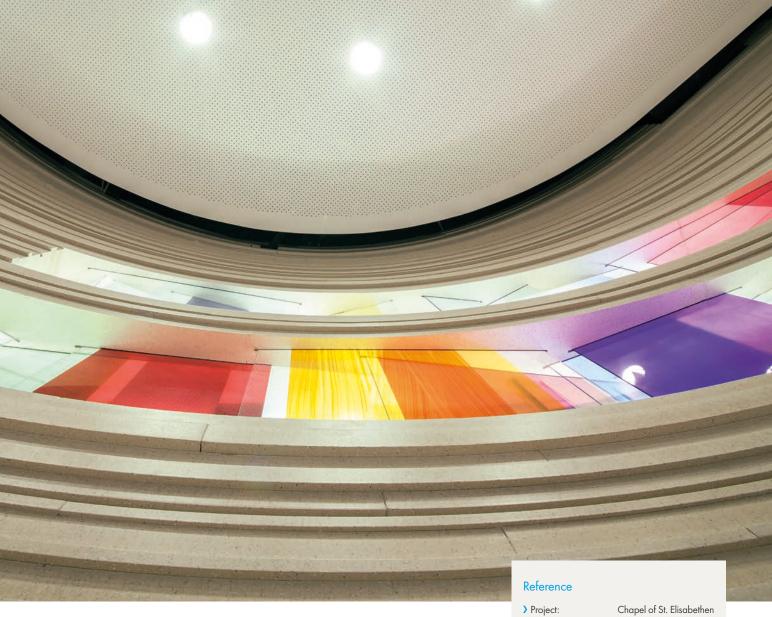
SHIFT WORK. FOR MORE CALM AND REFLECTION.

Places of calm are important, especially in hospitals. That was the intention with the new construction of the St. Elisabethan hospital in Ravensburg, with its chapel as a place of calm and reflection at a central location. And its special feature in addition to its exceptional shape is the unusual wall material: Stacked gypsum fibre boards. The ground plan of the chapel depicts an Elliptical shape and has been created in the form of a snail shell. After long deliberations on the choice of building materials they decided to use gypsum fibre boards from Knauf Design. However, not in the usual shape of a conventional drywall construction, but stacked. Using a computer-based 3D model, the individual panels were precision machined to the millimetre using CNC engineering, and were stacked, glued and connected with pins according to drywall construction principles.

Result: A design that excites on the exterior but is calm on the interior.









Chapel c	of St. Elisabethen
hospital,	Ravensburg
Arcass F	reie Architekten
BDA, Stu	ittgart, Germany
Gypsum	fibre board
precisior	n machining by
CNC an	d sanded and
finished	with a protective
coating	
Acoustic	s and design
Manfred	l Ehrle,
Bernhard	Huber
Transum	ed, Koblenz

> Architect:

> Product:

> Requirements:> Project planning:

> Installers:

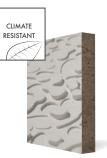
MUSIC BY THE SEA - A BEAUTIFUL CHALLENGE FOR WALLS.

Creating perfect harmony between the highest aspirations in aesthetic terms and demanding acoustic requirements was the wall design challenge at the Music Conservatory in Aalborg, Denmark. The solution: An "amoeba structure" designed by acoustic experts. To implement this, Knauf Design developed 169 different CNC surface machining programs for over 3000 **DESIGNBOARDS**, which were also visually fascinating thanks to their organic structure and a seamless assembly. To ensure that the humid climate did not have a negative impact on the material, the panels were tested successfully over a six week period in the climatic chamber at Knauf. Result: Perfect harmony of form and function.





	DESIGN
ACOUSTICS	



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I.C				

> Project: Denmark > Architect: > Product: > Requirements: > Project planning:

> Installers:

Music School Aalborg, Himmelblau, Berlin Gypsum board, CNC machined panels with an amoebic structure and lacquered finish Acoustics, design, climatic resistance Friis & Moltke, Denmark TL BYG A/S

IT IS NOT JUST ABOUT THE SPACE. BUT ALSO THE ATMOSPHERE.



During the design phase of the highly modern vocational school in Munich the planners decided to use the unique charm of the rarely used European maple.

More than 4500 m² of gypsum fibre board were veneered with this wood type. Knauf Design was delighted to be of assistance in sourcing this special wood.

Result: A building, representing a school at its best.





Reference Project:

> Architect:> Product:

> Installer:

> Requirement:> Project planning:

Vocational School
Munich
SPP Sturm, Peter + Peter
$4.500 \text{ m}^2 \text{ gypsum fibre}$
panels - real wood
veneer, maple
Non-combustible
SPP Sturm, Peter + Peter,
Munich
TM Ausbau GmbH



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Knauf Bauprodukte Professional DIY Solutions Knauf Design Surface Competence

Knauf Gips Drywall Systems Plaster and Façade Systems Floor Systems Knauf Insulation Insulation systems for renovation and new construction

Knauf Integral Gypsum Fibre Technology for floor, wall and cover Knauf PFT Machine Technology and Plant Engineering Marhos

Martar Systems for Stone Pavements in Civil Engineering

Sakret Bausysteme Dry Mortars for New Projects and Renovations