

KNAUF FIRELINE

The combination of creativity and security



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 is renowned for pioneering creative ideas in the refinement of different surface materials. The result is the creation of highly design-oriented room concepts with highest standards of fire safety and acoustic quality. Wherever consistency of the visual effect and the reliability of a system is an issue, the Knauf Design room concepts prove themselves. This could

be in public buildings and areas, in health-care, for shop fitting concepts, hotels or in the food service industry. We understand design quality as a process we actively shape by creating our own decor – both for trend collections and for customer-specific solutions. As a partner for planners, architects, trade, installers, industry in general and as a reliable system supplier, we offer the highest levels of security for approvals, quality and feasibility.



Robust and extremely resilient panel materials with a diverse range of design surfaces for creative and high-performance wall and ceiling systems in public buildings, for escape routes, meeting areas, hospitals, skyscrapers 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 groundbreaking products from Knauf Design for walls and ceilings allow creative freedom and impress with maximum functionality and safety.

Wherever high demands of design clash with technical specifications, our products are the first choice. High-level reference objects show the diversity of the possibilities and give inspiration for creative solutions.

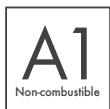


THE FIRELINE: IT'S NICE WHEN THE MOST CREATIVE SOLUTION IS ALSO THE SAFEST.

The **KNAUF FIRELINE** brand offers interior design products specifically created for fire safety. The significant feature of this product line is not just the certified board material. It also includes important factors such as a certified sub-construction and possible special characteristics as, for example, acoustical effectiveness and edging. With **FIRELINE**, a fire

safety system has been created that offers 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 certified on the latest level and have the following different fire safety classification:



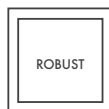
DESIGNBOARD
210 and GIFamarine

- › Gypsum fibre board at 100, 1,250 or 1,500 kg/m³ density
- › Calibrated
- › The board is certified for shipbuilding as GIFamarine according to IMO.

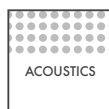


DESIGNBOARD
230

- › Gypsum fibre board in 1,100 or 1,500 kg/m³ density certified as a composite
- › Coated: Laminated, veneered, varnished, printed, primed
- › 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



Classified sub-construction
systems



Important adjustments can
be made



Can be edged with the approved
Knauf Design edge system.



Read more about acoustics here.

FIRELINE DESIGNBOARDS 210, 211, 230, GIFAMARINE



Characteristics & Benefits

- raw material
- non-combustible A1 (carrier board)
- accurate
- universally usable
- very high stability
- simple processing
- high ecologic standard in a safe production and recycling circle
- ecologically safe material
- many different layers possible
- simple and fast assembly

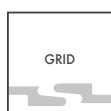
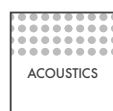


DESIGNBOARD 230 LAMINATE

DESIGNBOARD 230	unit	Density in kg/m³	
		≥1100	≥1500
Design	laminates	HPL from our collection	
Standard formats	mm	3030 x 1200	2560 x 1200
Thicknesses	mm	13.2 / 17.2 / 19.2 / 22.2 / 26.2	13.2 / 19.2
Surface	HPL (High Pressure Laminate) coated		
Building material classification	A2-s1, d0 according to EN 13501-1		



Classification



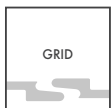


DESIGNBOARD 230 WOOD

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



Classification



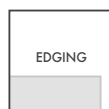
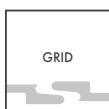


DESIGNBOARD 230 CREATIVE

DESIGNBOARD 230	unit	Density in kg/m³	
		≥1100	≥1500
Finish	Creative	direct print according to collection or Creative Art including customer-specific decor development	
Standard formats	mm	3100 x 1260 2560 x 1260	2560 x 1260
Thickness	mm	12 / 16 / 18 / 21 / 25	12 / 18
Surface	calibrated / primed / printed / finished		
Building material classification	A2-s1, d0 according to EN 13501-1		



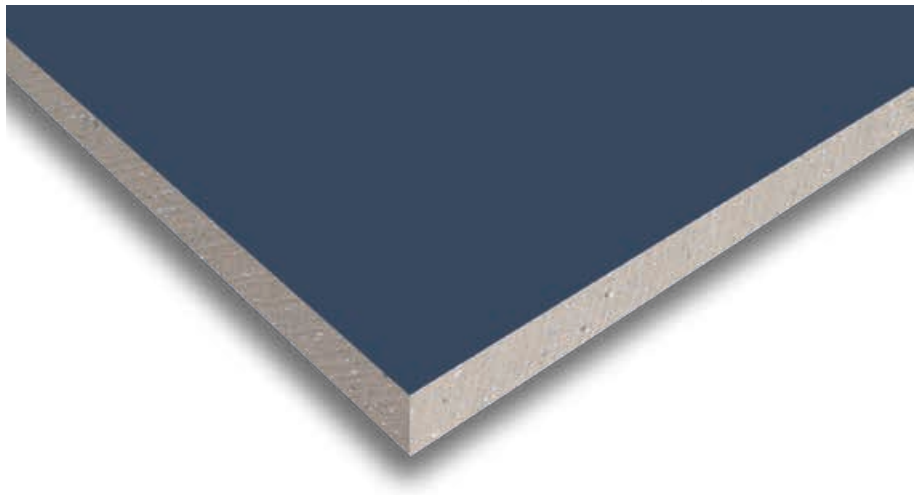
Classification



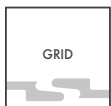


DESIGNBOARD 230 PAINT

DESIGNBOARD 230	unit	Density in kg/m³	
		≥1100	≥1500
Finish	Paint	lacquered according to collection	
Standard formats	mm	3100 x 1260 2560 x 1260	2560 x 1260z
Thickness	mm	12 / 16 / 18 / 21 / 25	12 / 18
Surface	calibrated / primed / lacquered / finished		
Building material classification	A2-s1, d0 according to EN 13501-1		



Classification



DESIGNBOARD 210

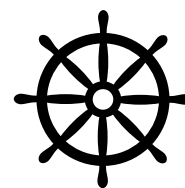
DESIGNBOARD 210	unit	Density in kg/m ³	
		≥1100	≥1500
Standard formats	mm	3100 x 1260 2560 x 1260	2560 x 1260
Thickness	mm	12 / 16 / 18 / 21 / 25	12 / 18
Surface	raw, calibrated		
Building material classification	A1 according to EN 13501-1		



DESIGNBOARD 211	unit	Density in kg/m ³	
		≥1250	
Standard formats	mm	3000 x 1250	
Thickness	mm	12 / 16 / 18 / 21 / 25	
Surface	raw, calibrated		
Building material classification	A1 according to EN 13501-1		



GIFAMARINE



		Density in kg/m³
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 is vital for buildings such as hospitals, meeting areas or schools.

The approved drywall system from Knauf Design classified acc. to EN 13501 complies one hundred percent 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 is 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 with their excellent acoustic effectiveness **DESIGNBOARDS 230** are the ideal choice for a classic broadband absorber.





FIXATION: EASY AND PRECISE.

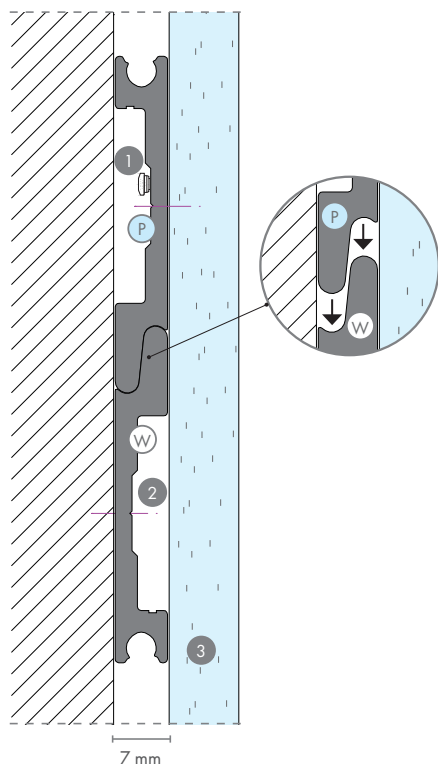
Perfect surfaces, inner values, everything that Knauf Design is known for. With this promise, we offer professionals clever systems for easy and secure wall covering which consists of our DESIGNBOARDS, the split batten system or our DESIGNBOARD FIX System and the appropriate screws.

We deliver the panels as desired: Laminated, veneered, lacquered or with digital print, slotted or perforated.

The examples here show the split batten system:



Cross-section



The components



(P)

Split batten
Fixation on a board with
Euro screws



(W)

Split battens
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.



1 Euro screw for mounting on
gypsum fibre board
Cylinder head type B galvani-
zed, 6.3 x 12 and 18 mm

2

Suitable fasteners
for fixing to an existing
wall



3

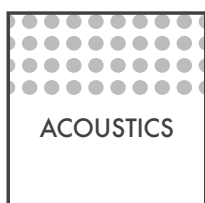
**Products / panels of the
FIRELINE**



Characteristics & Benefits

- › raw material
- › non-combustible A1 (carrier board)
- › accurate
- › universally usable
- › very high stability
- › simple processing
- › high ecologic standard in a safe production and recycling circle
- › ecologically safe material
- › many different layers possible
- › simple and fast assembly

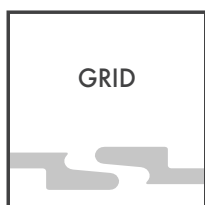
SCOPE OF CLASSIFICATION



KNAUF DESIGNBOARD 230 can be manufactured with acoustically effective characteristics if required. The design and fire protection in A2-s1, d0 according to EN 13501-1 are not affected.

You can also choose different perforated and slotted designs.

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



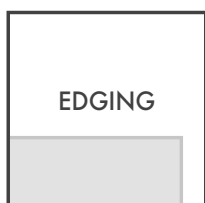
KNAUF DESIGNBOARD 230 features classified installation grid systems. The classified material includes the invisible Knauf split batten and the DESIGNBOARD FIX system.

For more information, please refer to our technical brochure.



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, please refer to our technical brochure.



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.

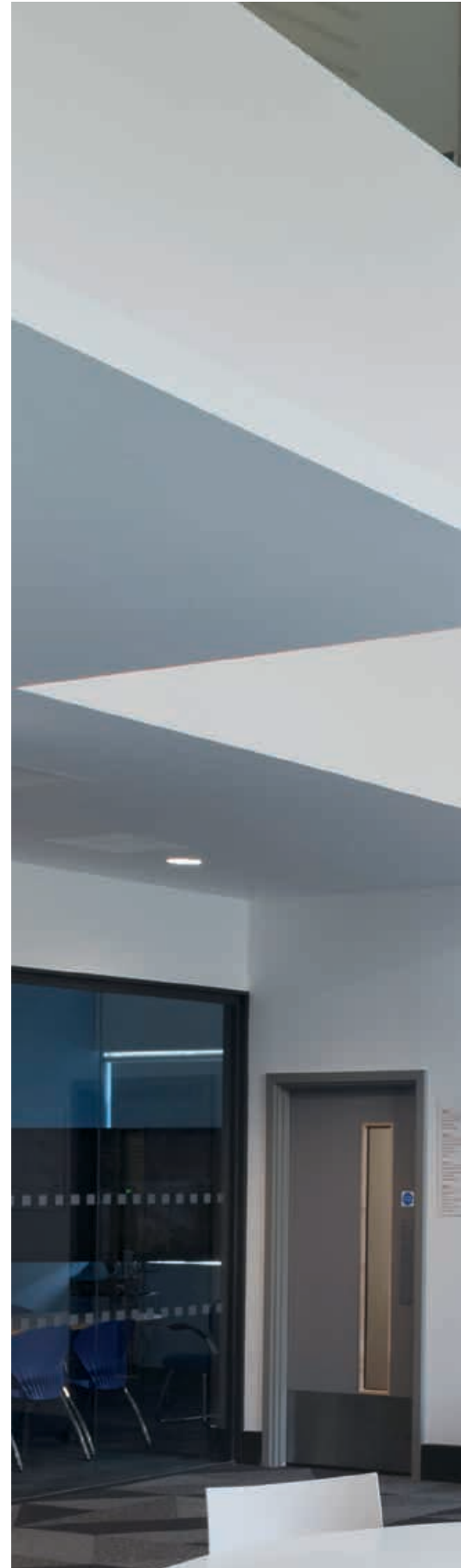
For more detailed information, please refer to our technical brochure.

All work steps may be carried out in the factory and thus complete the Knauf Design range of services. If you have any questions regarding our services, please do not hesitate to contact us.

CEILINGS AND WALLS SET LIMITS BUT THE DESIGN HAS NO LIMITS.

In a split second, you make up your mind about how functional, safe and aesthetic a room feels. Important factors are the design and coverings of the walls. Knauf Design offers a wide selection of surface coatings for gypsum boards and gypsum fibre boards: real wood veneer, HPL, decor paper, digital print or lacquer, and upon request, smooth, perforated or slotted styling. A sharp profile with emphasized individuality:

Knauf Design offers customized manufacturing of drywall systems for the most challenging construction projects and provides assistance both for process engineering as well as for the conceptual implementation. We find best solutions – even for unusual designs and material choices. There are no limits to design visions.







DESIGN DECOR

KDB 230 Laminates - Solid colours

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




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

KDB 230 laminates - Metal

		
KD-0116-BF-L Stainless steel	KD-0117-BF-L Matt aluminium	KD-0118-BF-L Silver alloy

Laminate metal is provided with BF = buttlar finish surface structure



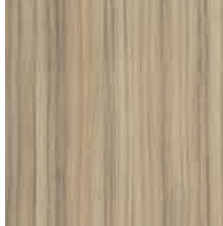


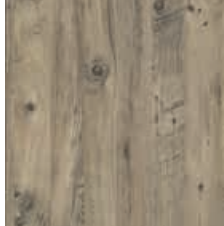
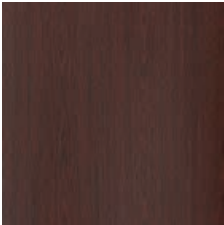
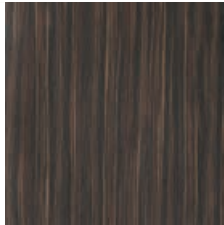
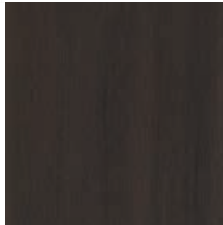
KDB 230 laminates - stone

		
KD-0128-ST-L Sandstone	KD-0129-ST-L Rust	KD-0148-ST-L Dark sandstone

Laminate stone is provided with ST = stone surface structure



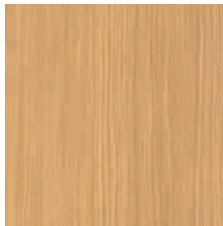






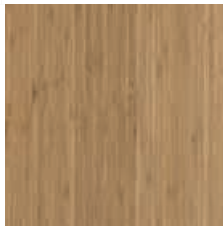
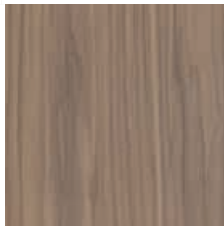
DESIGN DECOR

KDB 230 laminated - Wood


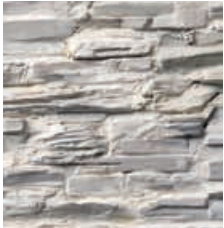


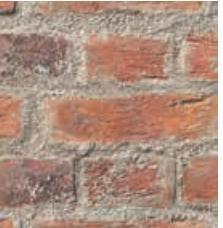

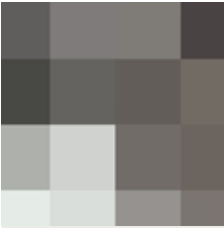

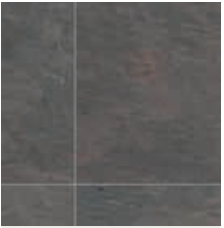



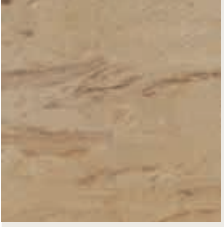

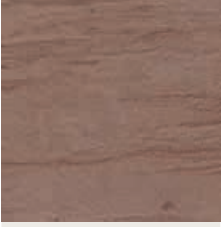
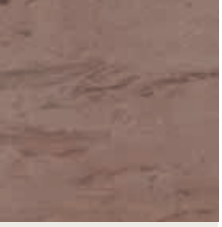


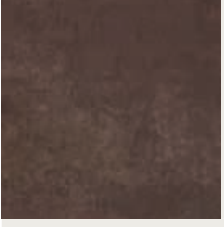
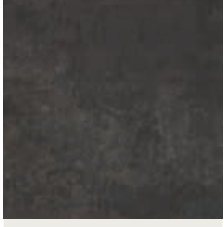
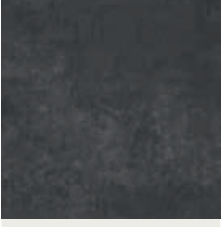
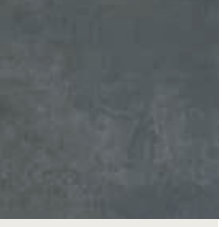
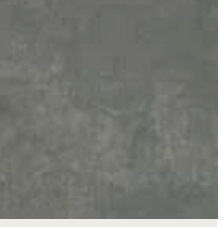

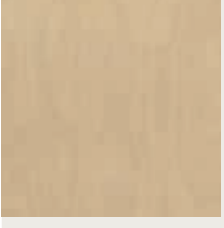

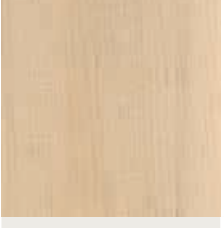



					
KD-0119-HS-L Maple	KD-0120-HS-L Beech	KD-0121-HS-L Cocobolo	KD-0125-HS-L Oak grey	KD-0126-HS-L Light oak	KD-0127-HS-L Rustic oak
					
KD-0122-HS-L Mahogany	KD-0123-HS-L Zebra wood	KD-0124-HS-L Wenge			

Laminated oak wood is provided with

KDB 230 Wood










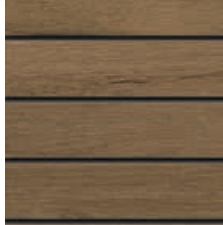
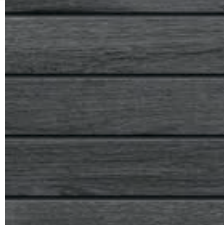








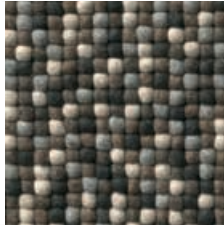
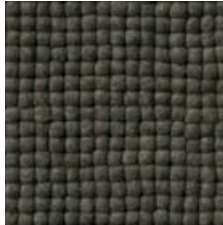

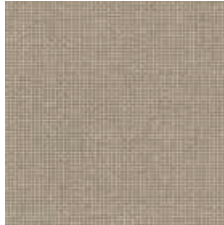
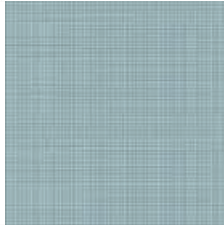
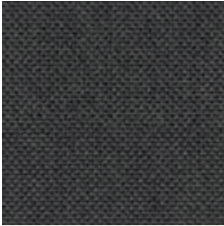




					
KD-0045-00-W Select maple	KD-0046-00-W Canadian maple	KD-0165-01-W Eiche-Schlicht	KD-0049-00-W Select beech	KD-0048-00-W Core beech	KD-0052-00-W Heart ash
					
KD-0054-00-W Black Cherry	KD-0055-00-W American cherry	KD-0056-00-W Select larch	KD-0062-00-W Bamboo	KD-0042-00-W American walnut	

KDB 230 Creative

					
KD-0006-00-C Single loft	KD-0001-00-C Limestone	KD-0003-00-C Stone wall	KD-0100-00-C Quarry marble	KD-0004-00-C Brick red	KD-0067-00-C Mosaic grey-brown
					
KD-0067-01-C Mosaic scaled grey brown	KD-0105-00-C Long slate tile	KD-0109-00-C Rosso nero tile	KD-0002-00-C Pure concrete	KD-0002-01-C Pure concrete	KD-0084-00-C Soft concrete
					
KD-0024-00-C Natural sandstone	KD-0025-00-C Sahara sandstone	KD-0025-01-C Sandstone Sahara Rose	KD-0024-01-C Black Forest sandstone	KD-0031-00-C Pizarro argento	KD-0033-05-C Oxidian cream metal
					
KD-0033-08-C Oxidian metal walnut	KD-0033-00-C Oxidian metal	KD-0033-01-C Oxidian metal anthracite	KD-0033-02-C Oxidian dark grey metal	KD-0033-04-C Oxidian stone grey metal	KD-0065-00-C Formwork
					
KD-0114-00-C Birch peeled	KD-0045-00-C Select maple	KD-0046-00-C Canadian maple	KD-0047-00-C Flowery Canadian maple	KD-0052-00-C Heart ash	KD-0069-00-C Triberg oak

DESIGN DECOR

KDB 230 Creative

					
KD-0056-00-C Select larch	KD-0057-00-C Brushed larch	KD-0058-00-C Antique larch	KD-0005-00-C Spruce	KD-0055-00-C American cherry	KD-0062-00-C Bamboo
					
KD-0060-00-C Mahogany	KD-0043-00-C Select walnut	KD-0044-00-C Antique walnut	KD-0066-00-C Oxford oak strip	KD-0066-01-C Oxford oak strip grey	KD-0063-00-C Kentucky Spruce
					
KD-0064-00-C Oxford Oak	KD-0072-00-C Cottage spruce	KD-0073-00-C Old Barn	KD-0071-00-C Wooden Curls	KD-0070-01-C French Lattice White	KD-0070-02-C French Lattice Grey
					
KD-0070-00-C French Lattice	KD-0086-00-C Felt Coloured	KD-0087-00-C Felt Plain	KD-0107-00-C Jute	KD-0111-00-C Linnen	KD-0021-00-C Mesh
					
KD-0112-00-C Twist	KD-0112-01-C Twist grey	KD-0113-00-C Natural turquoise	KD-0113-01-C Natural grey	KD-0020-00-C Chesterfield	

KDB 230 Paint

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

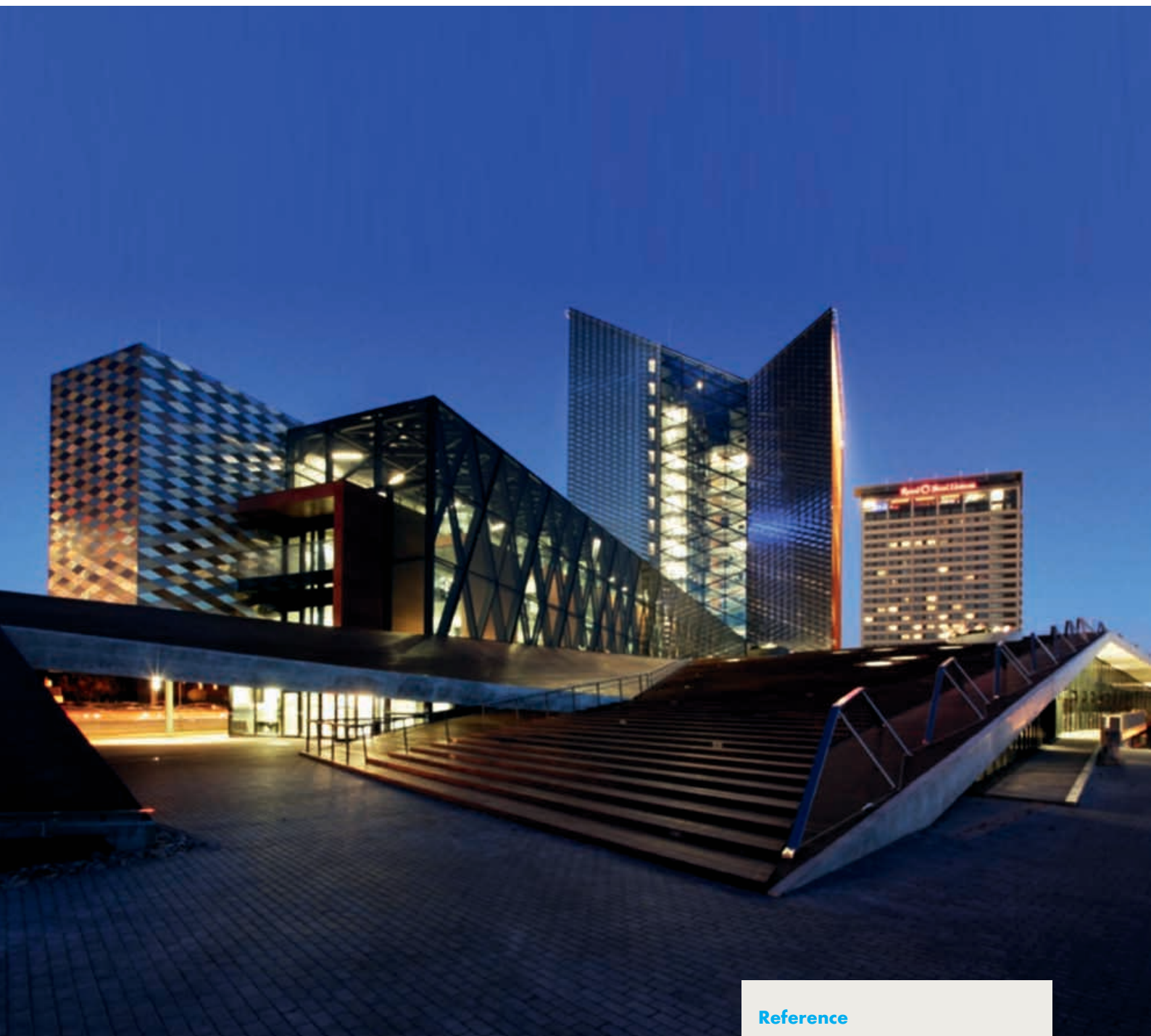
DARING DESIGNS OUTSIDE. PRACTICAL FUNCTIONALITY INSIDE.

Bold designs live from a stylish continuation inside. With **DESIGNBOARD 230**, walls and ceilings have not only a functional purpose but are also expressive design elements. One example is the construction of Swedbank in Lithuania, a landmark object for the Baltic republic.

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 compliance with the

latest EU standards. There were also the highest expectations of surface design. The **DESIGNBOARD** was exclusively veneered with the wood of Canadian Oregon oak. The result was impressive from both the interior and exterior perspectives.





A2
Non-combustible

ACOUSTIC

DESIGN



Reference

- > Project: Swedbank Lithuania
- > Product: Approx. 3,500 m² gypsum fibre board with real wood veneer (ceiling and wall cladding) in Oregon oak
- > Requirement: Non-combustible, acoustics and design

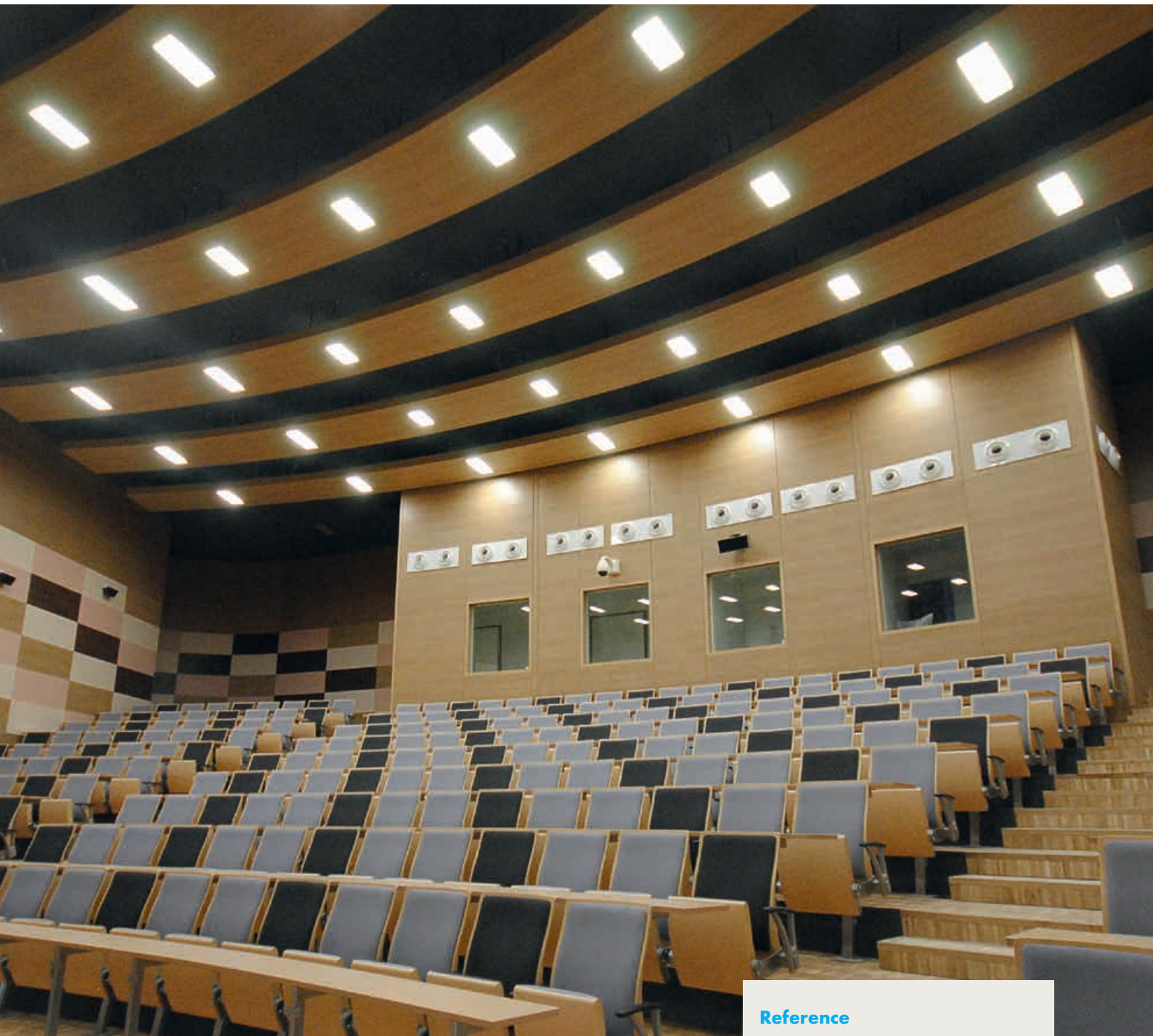
FITTED ON THE VERY TOP.

Russia's most modern children's clinic in Moscow had to be completed exactly on the International Day of the Child. The project required extremely precise timing. Therefore, the project partners erected the entire sub-construction on-site

so that the boards with their acoustic function and the ceiling sail could be fitted without delay.

› The result: Fully on schedule.





Reference

- > Project: Children's hospital, Moscow
- > Product: Gypsum fibre board, acoustical wall cladding for all lecture halls, HPL-coated material, ceiling sail to direct sound
- > Requirements: Acoustics and design

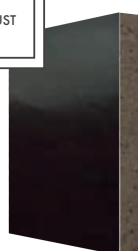
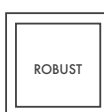
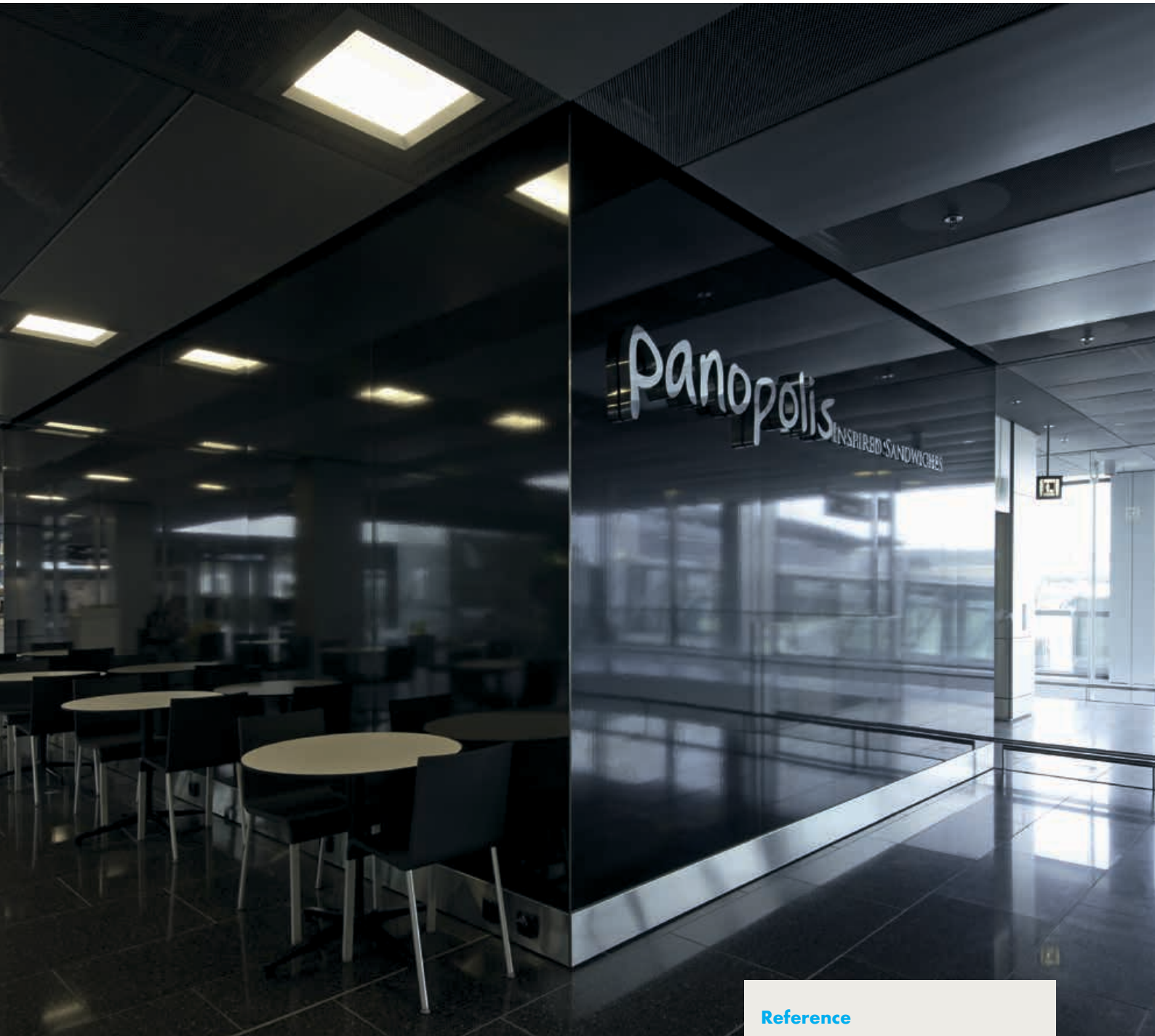
BRILLIANTLY SOLVED.

Elegant shell with a robust core: The walls of the boutiques in Zurich Airport were an interesting challenge for the Knauf design surface experts. After some experimentation, the ultimate solution was accomplished with several special re-coatings: An elegant

shimmering outer skin, which also complies with the strict safety requirements.

› Result: Sparkling eyes.
Not just for the architects.





Reference

- > Project: Zurich Airport
- > Product: Gypsum fibre boards, HPL coated including RAL standard paint finish
- > Requirement: Glossy, robust surface

YOU EAT WITH YOUR EYES FIRST.

You eat with your eyes first. That is what the planners from the architecture firm Planwerk GmbH in Bingen thought when they created the interior design of the staff restaurant built in 2016 for the company Boehringer in Ingelheim. The employees of the worldwide operating pharmaceutical company with

headquarters in Rhenish Hesse should be able to enjoy high-quality meals in the pleasant atmosphere of their canteen.

Therefore, an attractive design of walls and ceilings combined with the highest constructional functionality was important for the

planners. They chose the innovative gypsum fibre board system **Designboard 230 WOOD** of Knauf Design with real wood veneer in maple décor.

› [Fire safety design with wood](#)





A2
Non combustible

ACOUSTIC

DESIGN



Reference

- > Project: Staff restaurant
Boehringer Ingelheim,
Ingelheim am Rhein
- > Product: gypsum fibre board
with real wood veneer
(ceiling and wall cladding) in maple
- > Requirement: Non-combustible,
acoustics and design

SHIFT WORK. FOR MORE SILENCE AND REFLECTION.

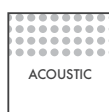
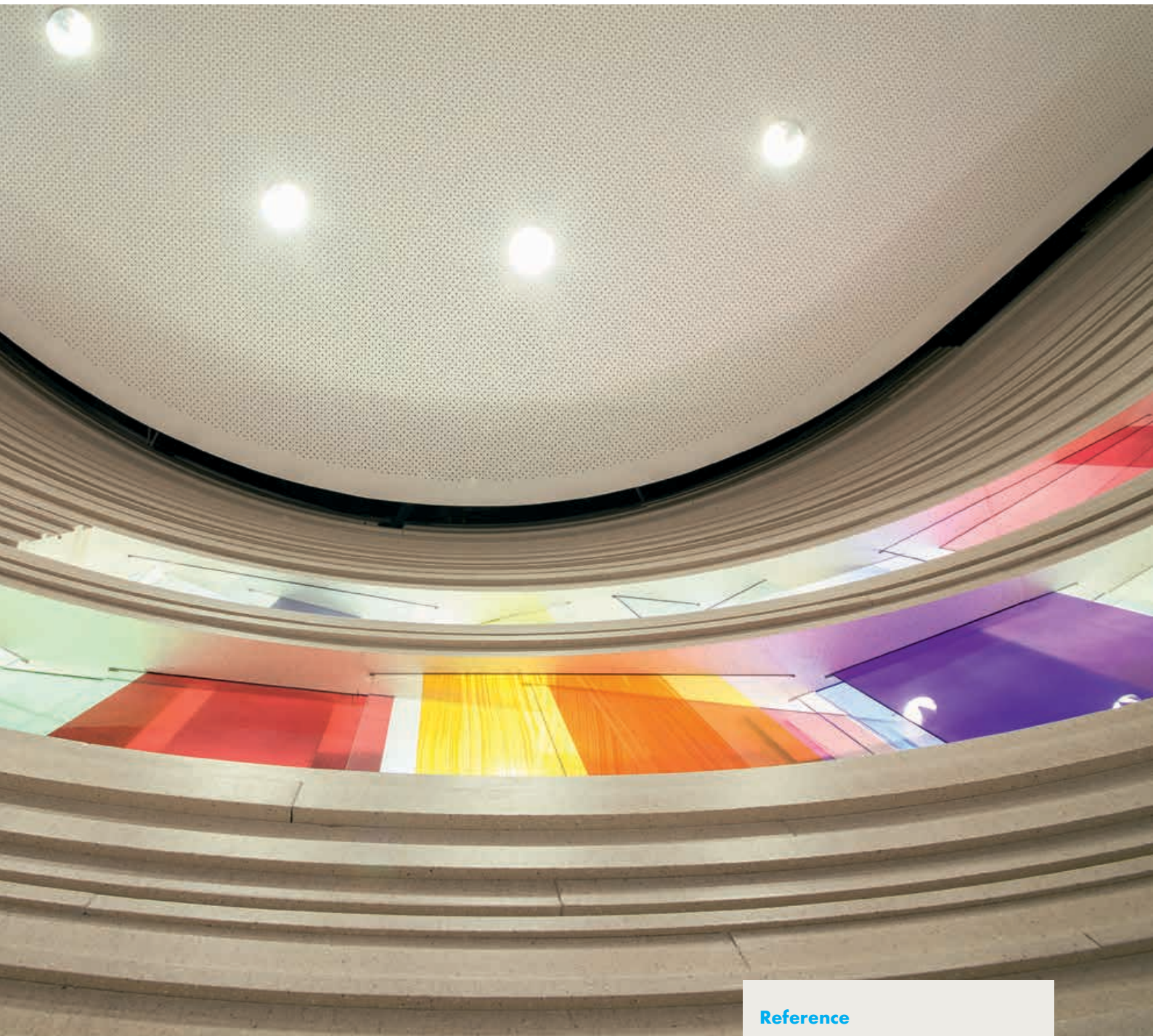
Quiet places are important, especially in hospitals. That was the intention for the new building of St. Elisabeth hospital in Ravensburg, with a centrally located chapel as a quiet place. What makes the chapel special is its exceptional shape as well as the unusual wall material: Stacked gypsum fibre boards. The ground plan of the chapel shows an elliptical

shape and has been created in the form of a snail shell. After some consideration, the Knauf Design gypsum fibre boards were chosen as building materials. However, not in the usual shape of a conventional drywall construction, but stacked. With the help of a computer-based 3D model, the individual panels were processed

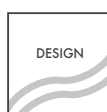
accurately to the millimetre using CNC engineering, and were stacked, glued and connected with pins according to drywall construction system.

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





ACOUSTIC



DESIGN



Reference

- › Project: Chapel of St. Elisabeth hospital, Ravensburg
- › Product: Gypsum fibre board precision machining by CNC and sanded and finished with a protective coating
- › Requirements: Acoustics and design

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.

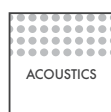
› Result: Perfect harmony of form and function.





Reference

- > Project: Music School Aalborg, Denmark
- > Product: Gypsum board, CNC machined panels with an amoebic structure and lacquered finish
- > Requirements: Acoustics, design, climatic resistance



ACOUSTICS



DESIGN



CLIMATE
RESISTANT



LINEN LOOK FOR SPORTS

The s. Oliver arena as cultural and sports center has become a famous attraction in Würzburg. It is the home ground of the national league basketball team "s. Oliver Baskets" and the second league handball team "Rimparer Wölfe". It also hosts the Würzburg indoor soccer town championship. With 4,756 seats, the multifunction hall also offers room for concerts and other events.

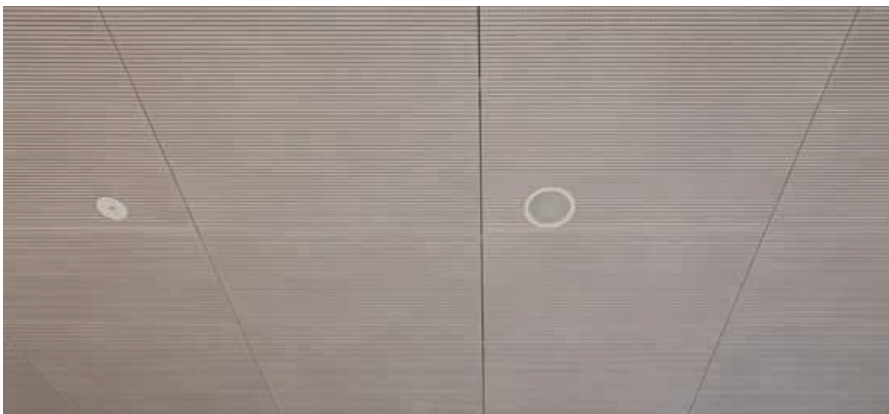
To make sure that the noise level is still

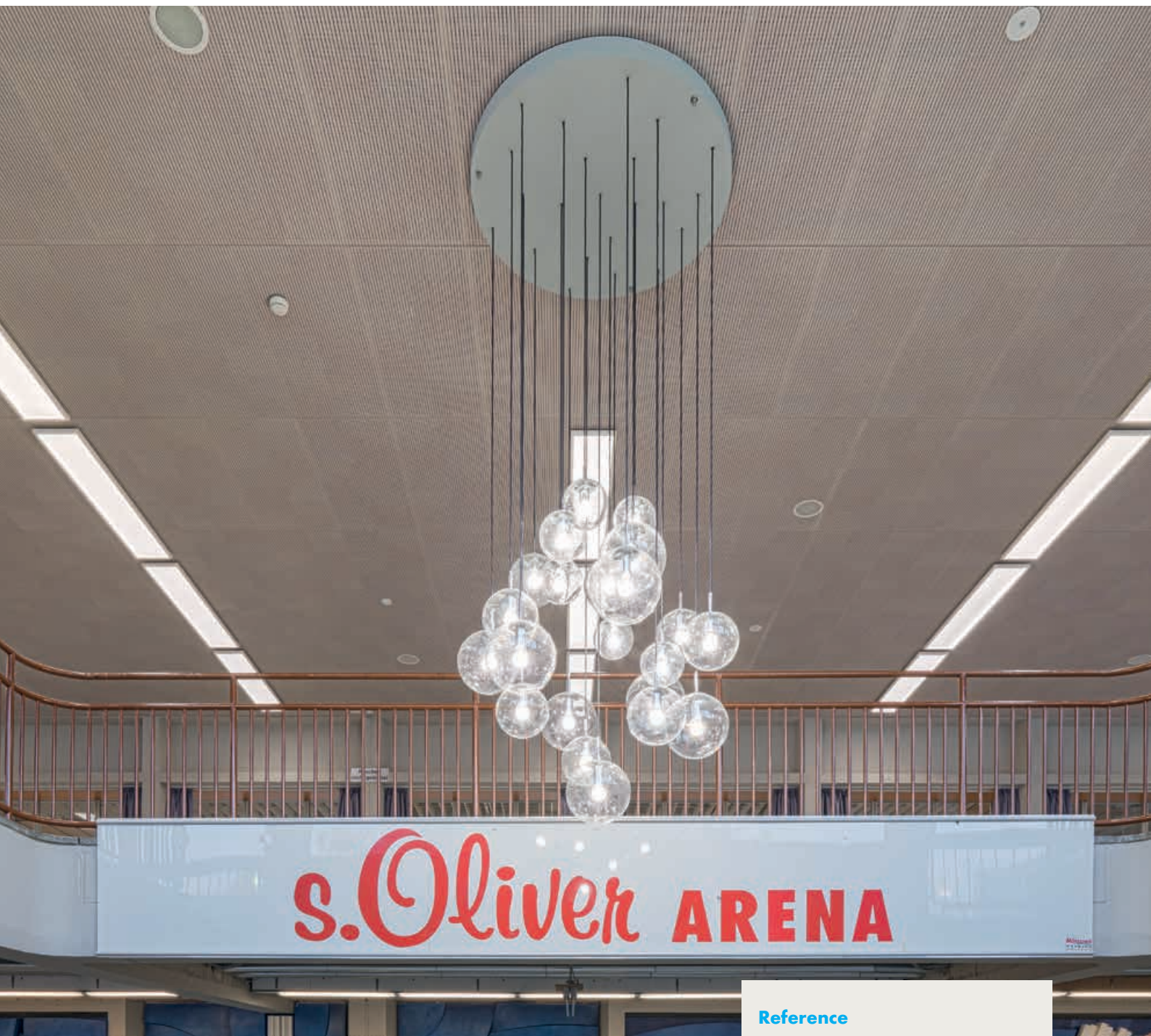
comfortable despite those masses of people, the foyer of the building had to be covered with a sound absorbing ceiling. It also had to comply with the higher fire safety regulations for meeting areas, which means it had to be incombustible according to DIN 4102-1 (A2).

The solution was very simple for the builder (city of Würzburg): linen. Not as fabric but in form of Knauf **Designboard 230** Creative with straight slots fixed on a sub-construction

of Knauf **Designboard Fix** profiles. The single boards were printed with linen decor and have the deceptively real effect of slightly creased fabric with cream color shades.

» It looks like fabric but it is none.





s.Oliver ARENA

A2
Non combustible

ACOUSTICS

DESIGN



Reference

- > Project: s.Oliver Arena, Würzburg
- > Product: Designboard 230 Creative
- > Requirements: Non-combustible, acoustics and design



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