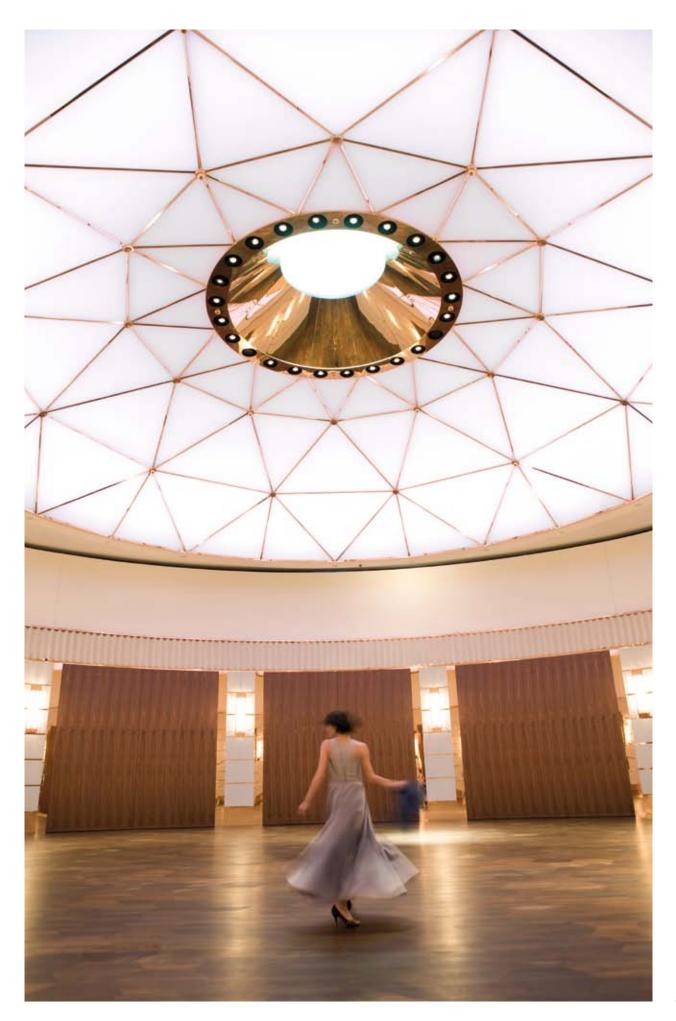
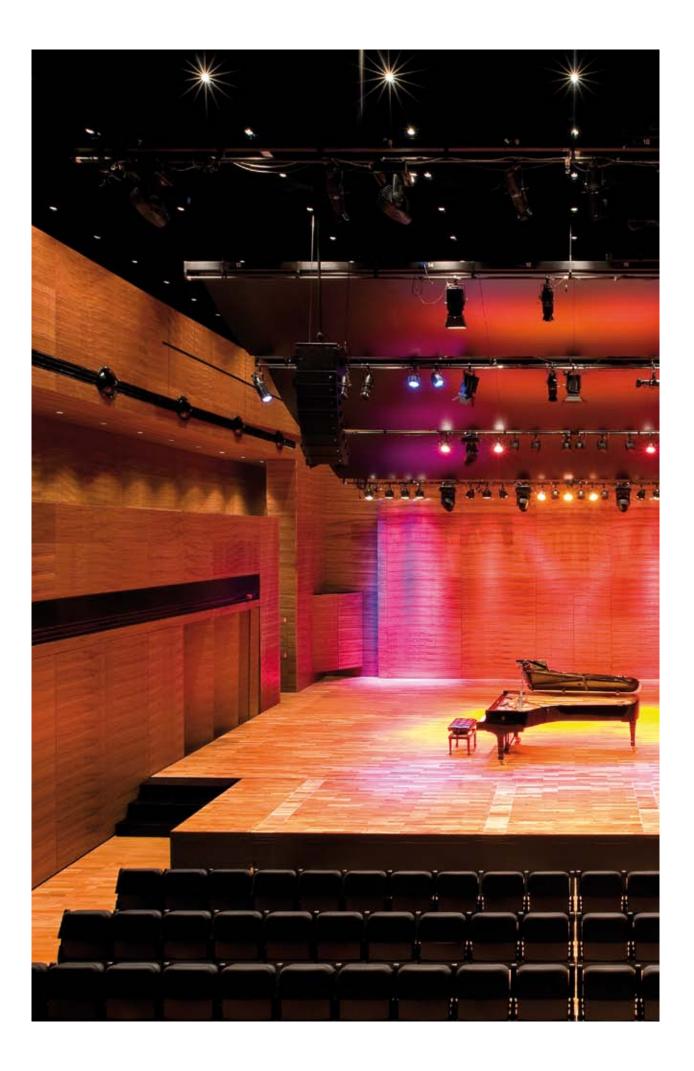
	•••••• Ultra-fine micro-
	perforation in wood
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000 000 000	and glass: invisible
	• • • • • • • acoustics enhancement
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A Hessian State Parliament, Wiesbaden Plenary Hall

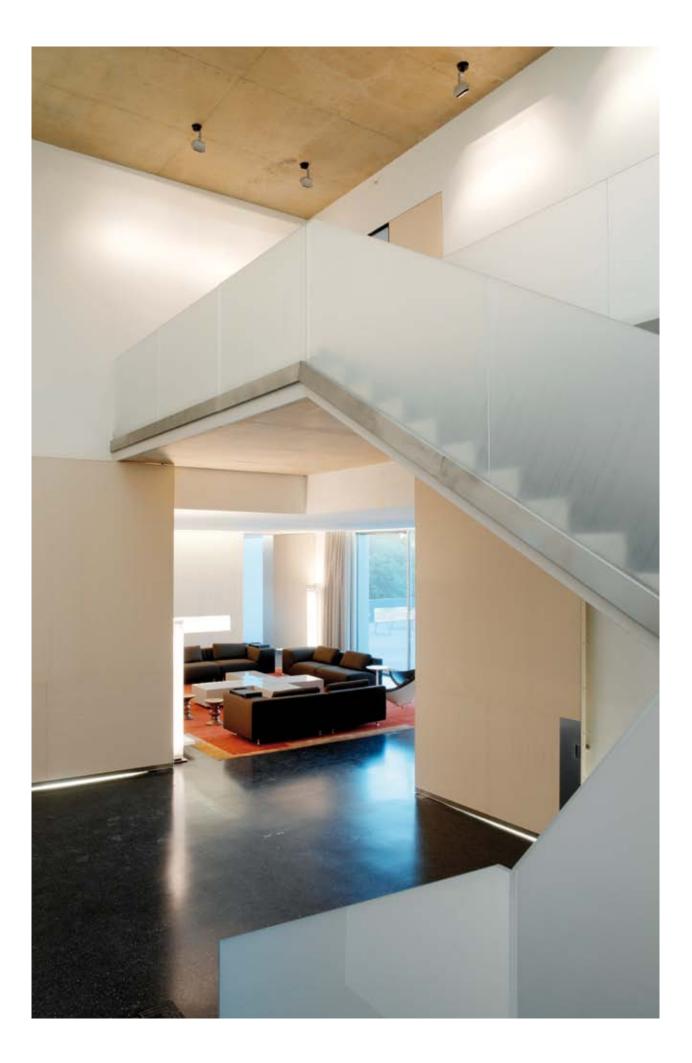
Project: Lindner Objektdesign GmbH

< Centre national de l'audiovisuel, Dudelange The highly sophisticated demands of a space where performance and spoken word are of prime importance – a place where our expertise comes into its own.

GOOD ROOMS NEED GOOD ACOUSTICS

The acoustics of a room have a major influence on our ability to understand what is being said and on the way we listen. This can, in turn, have a fundamental effect on our health, our power of concentration and our sense of well-being. Ultra-fine micro-perforation is conducive to the finest standard of indoor acoustics. Its capacity to absorb sound and to shorten reverberation time is critical.

We are regarded as experts in this field. The ingenious thing is that the effect is invisible. Our solutions are appreciated by architects, interior designers, sound engineers, interior fitters and developers. They call us whenever a room needs to have just the righ tone. The sound and space solutions which emerge in the process are outstanding. Excellent credentials sing out our professional expertise and the echo is heard far beyond the borders of Switzerland.



< Swiss Embassy, Washington. Ash veneer sliding partitions, wall panelling and door coverings. The ultra-fine microperforated surface is coated with white pigment. V

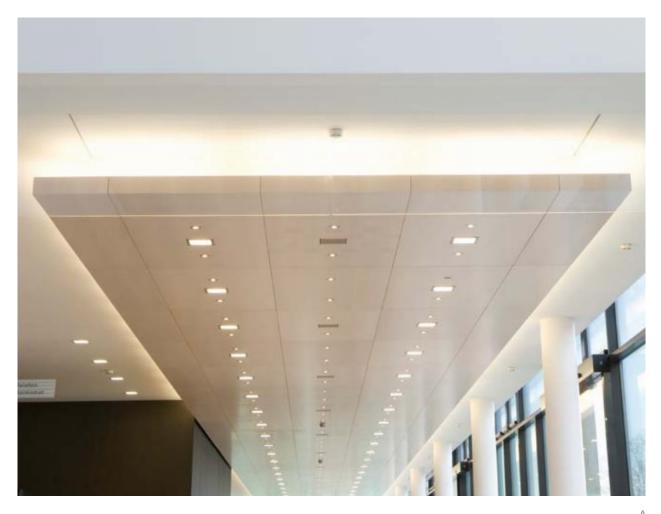


MINIMUM INPUT – MAXIMUM EFFECT

The secret of this art is contained in one tiny but highly efficient item – the absorber. Its magic lies in its minute exposed surface. The result is minimum input and maximum effect.

The micro-perforation is only visible on very close inspection. Anyone who is not really, really close to it will only have an overall impression of a smooth surface texture. The absorber is the star of the show in terms of acoustics, yet it retreats modestly into the background. There we have it: invisible room performance.

The ultra-fine micro-perforation is also ideal for presentations and acts as an optimum backdrop for projections. The micro-perforations cannot even be detected by still or film cameras.



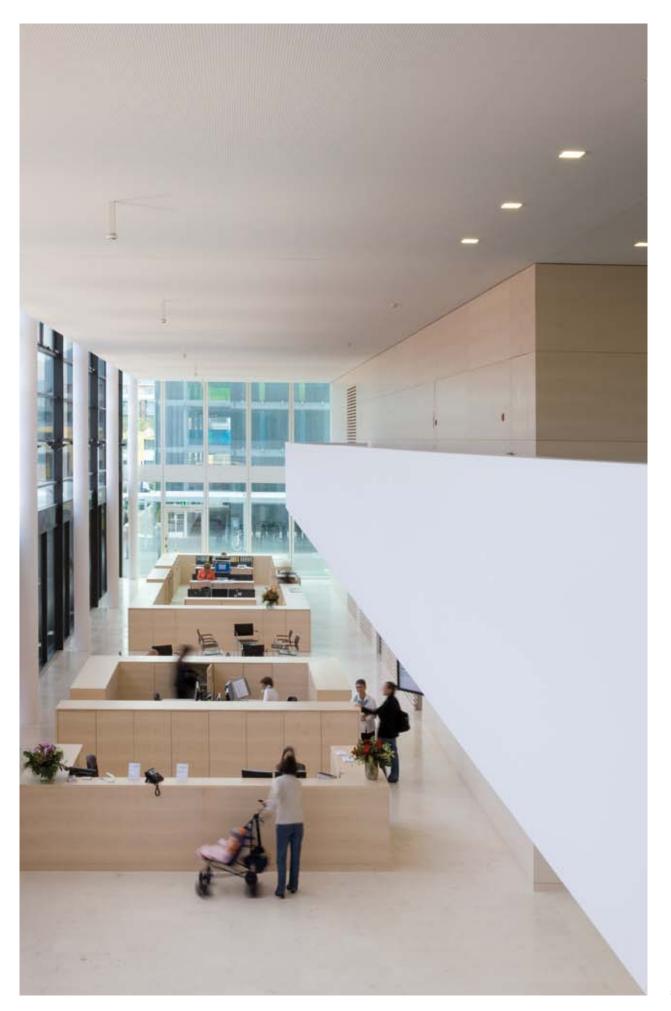
Zug Cantonal Hospital in Baar High-end medical infrastructure in an ultra-modern building. The floating backlit ceiling panel is micro-perforated.

Zug Cantonal Hospital in Baar. > Optimum sound and space experience.

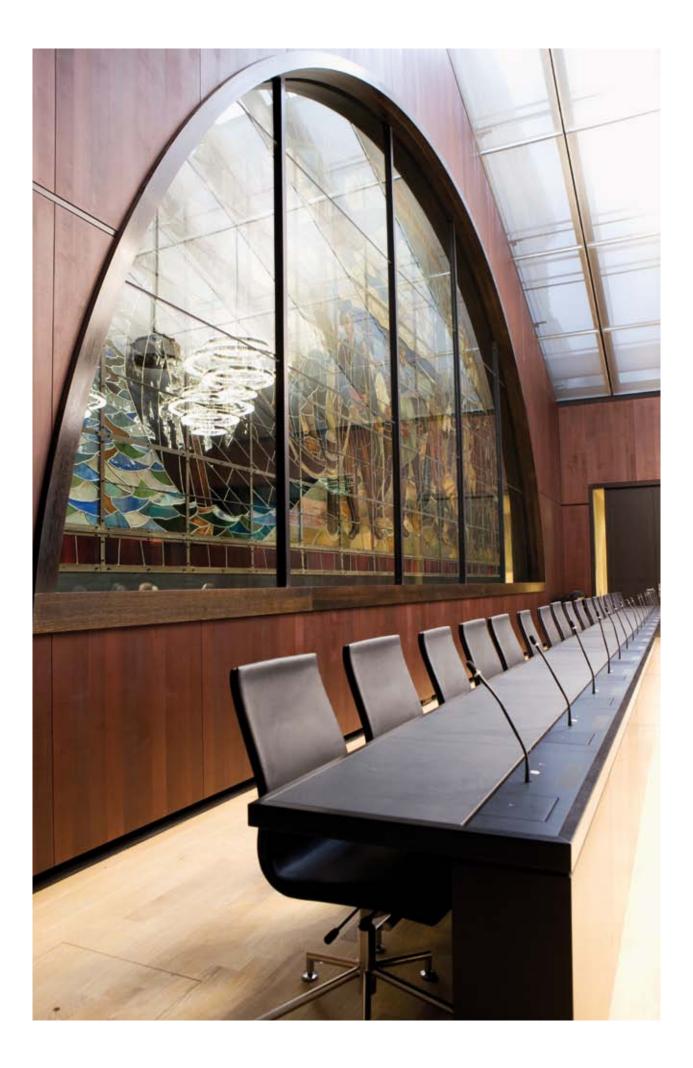
IMPRESSION – EXPRESSION

Who can fail to appreciate the dynamics of this duo? Both are essential. Subtle in impression – perfect in expression. We have made this quality our business. We deliver expression by bringing acoustic qualities to consummate perfection. But a good room also thrives quite simply on its visual impression and harmonious feel. The smooth effect of ultra-fine micro-perforation is very popular with creative designers and engineers.

Why? Because the special surface texture is quite fascinating. Double-sided ultra-fine microperforation provides even greater scope for flexible applications. Partition walls, for example. Or furnishing elements, such as cupboard fronts, rear panels and door linings. The acoustic room is a broad canvas. Our ultra-fine micro-perforated products are therefore available in a wide range of finishes, materials and colours.









< Berne, Parliament building/ multi-functional conference room. We used patina techniques to achieve the harmonious consistency of the colour scheme. In acoustics ultra-fine microperforated technology.

Λ

Stuttgart State Theatre, Schauspielhaus. In an acoustics fine micro-perforated design with integrated LED lighting. (B1 integrated)

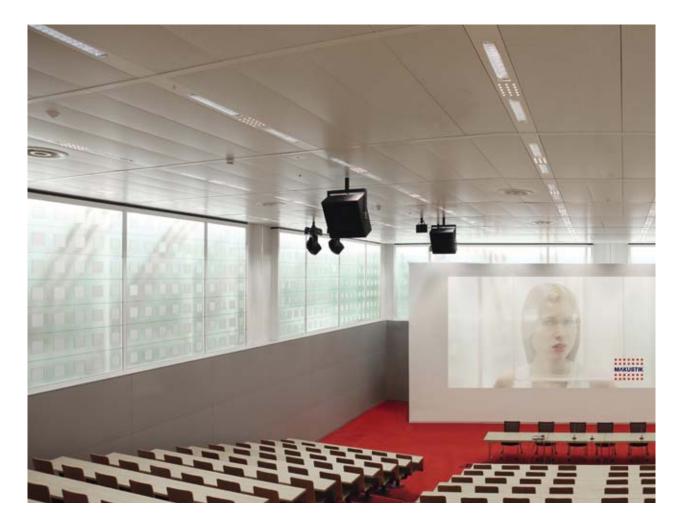
Project: Lindner Objektdesign GmbH

HIGHLY SELECTIVE

Just imagine a huge number of highly sensitive micro-capillaries covering every square metre, guaranteed to fine-tune the room acoustics. Being passionate about adding a note of perfection to spaces comes in useful in so many places: where people work; where people meet; where people listen; where people speak or make music; where people seek repose; indeed, wherever sound and tone have an impact on well-being and concentration.

Our customers – institutions, public sector bodies, administrative authorities, the hotel and catering industry, shop-fitters, banks, insurance companies, universities, colleges of further education and health authorities – rely on the unique acoustic quality of our products.





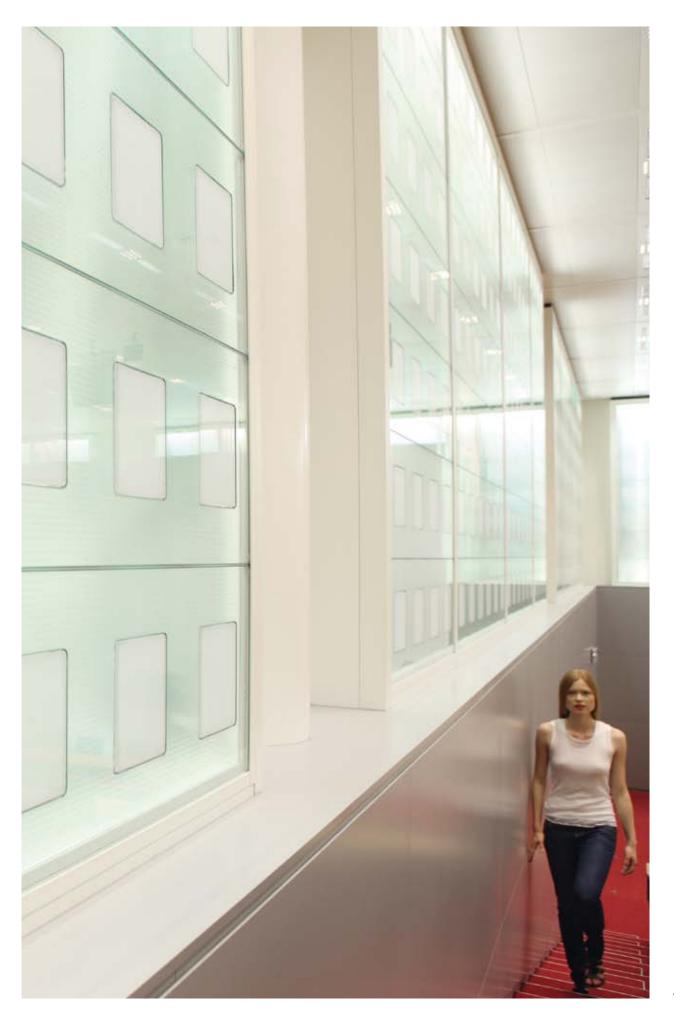
University of Applied Sciences Northwestern Switzerland (FHNW), Windisch lecture theatre Ultrafine micro-perforated wood and acoustic glass

THE PREDOMINANCE OF GLASS IN BUILDINGS AND INTERIOR FITTINGS CONTINUES UNABATED.

This is equally true of rooms with challenging acoustics. It was our task to resolve a conflict. It is a well-known fact that reverberant glass walls are highly problematic in terms of acoustics. The transformation of reverberant glass into an acoustic absorber was a process involving very many ultra-fine micro-slits.

This reduces reverberation time and unwanted echoes. The resulting acoustics are perfect and create an atmosphere where communication can take place with ease and enjoyment. This is particularly good news for modern minimalist architecture.

Previous absorption techniques did not allow any choice in architectural changes, but our ultra-fine micro-system compares favourably in that there is no compromise in terms of architectural expression with our acoustic glass. To sum up: micro-perforated glass strikes the right note for visual and acoustic perfection.





International Committee of the Red Cross, ICRC, Geneva. Backlit ceiling and balustrade cladding in translucid plastic glass as absorber.

ABUNDANT SCOPE FOR YOUR PROJECT

Lightweight, strong, fire-proof, resistant to humidity and temperature fluctuations, easy to install – these are examples of criteria which are essential to micro-perforation performance. Our materials are designed to meet all these criteria. International references and awards for innovation bear witness to the sustainability of our solutions. We are also credited with a wide diversity of products and materials, allowing you plenty of scope for your project.

The variety and quality of the base materials are additional benefits which give you plenty of scope for creativity. If you prefer not to have natural grain wood finishes you can choose from a wide range of coating colours. With respect to safety, we are able to meet the most demanding specifications and deliver certified options for fire prevention.

Take advantage of our sales advisors' professional expertise. You will benefit at the same time from our close collaboration with reputable building physicists and institutes. The insights gained in such cooperative development are incorporated into our solutions which we then pass on to our customers.

MAKUSTIK ULTRA-FINE MICRO-PERFORATION INVISIBLE ACOUSTICS ENHANCEMENT





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