Acoustic-Lightboard®

Meets highest demands in sound
and fire protection

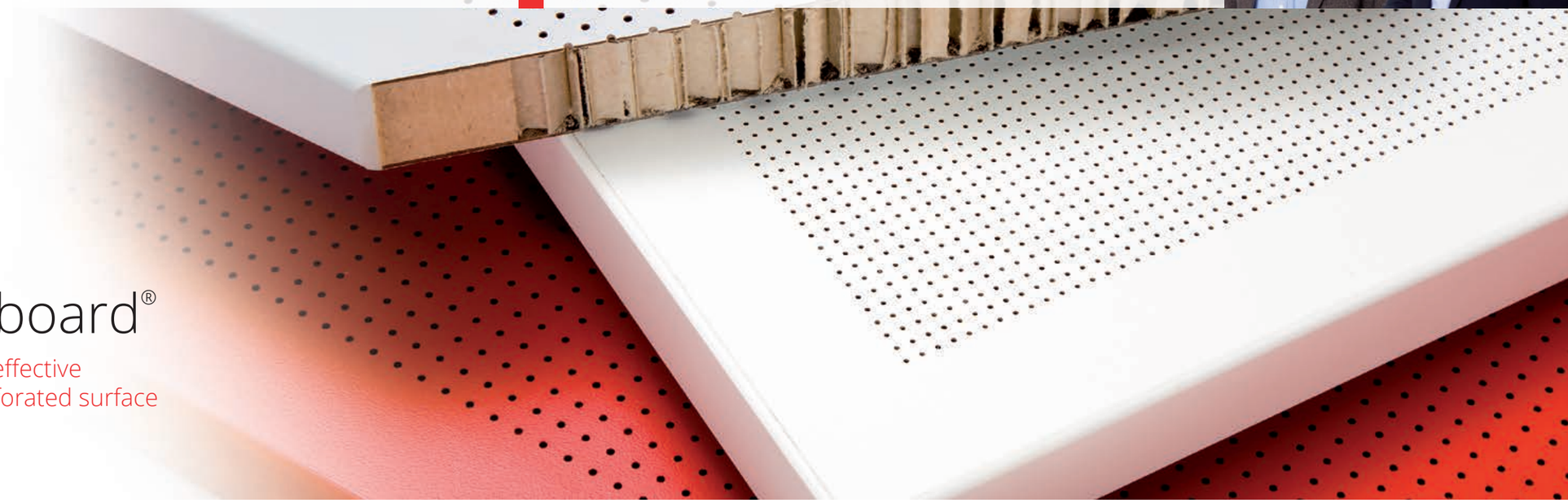
... when it matters!

Richter® akustik & design

Richter akustik & design

provides innovative and unique solutions for the design and architectural professions. Our high quality materials are used in furniture design, wall applications, ceilings and many more applications.

- **Sophisticated and economical solutions.**
- **Resource efficient, sustainable and value driven. We take our responsibility to the environment and to people seriously.**
- **Powerful, responsible, passionate, creative and solution oriented without exception.**



Acoustic-Lightboard®

Aptly named for its acoustically effective honeycomb core and micro perforated surface

70 % Up to 70% lighter in weight than most other products

0,85 Excellent sound absorption coefficient at all frequencies with our optimized honeycomb technology

320.000 Over 320,000 perforations per square meter creates pleasant acoustics for offices to large halls

Acoustic-Lightboard®

Meets the highest demands for sound and fire protection

Modern architecture and design is increasingly utilizing more materials such as glass, steel and stone meeting the demands of more open offices and meeting facilities. These hard surfaces reflect sound and contribute to an increase in noise levels and a decrease in productive environments. Acoustic-Lightboard® counteracts the noise and the unpleasant effects on people and employees.

By using Acoustic-Lightboard® the sound energy/noise enters through the micro-perforated surface and onto the under laying close-mesh honeycomb core. Here it is effectively absorbed and dissipated.
An internal layer of acoustic fleece further enhances the absorption and reduction in noise vibrations. This combination of elements is light-weight and dimensionally stable. Ideal for acoustically effective office furniture, wall and ceiling applications.

DGNB® Deutsche Gesellschaft für Nachhaltiges Bauen e.V. German Sustainable Building Council

interzum award: intelligent material & design 2013

Available in following varieties:

FSC www.fsc.org FSC® C019853 Das Zeichen für verantwortungsvolle Waldwirtschaft

PEFC Förderung nachhaltigen Waldwirtschaft www.pefc.de

Richter akustik & design

Reference projects

Richter akustik & design
... when it matters!

Project:
Landtag NRW

Product:
Acoustic-Lightboard®
Americ. Cherry veneer
Perforation MR 075250

Year:
2012

Quantity:
approx. 140 m²

Acoustic-Lightboard®

Reference projects

Richter® akustik & design

... when it matters!

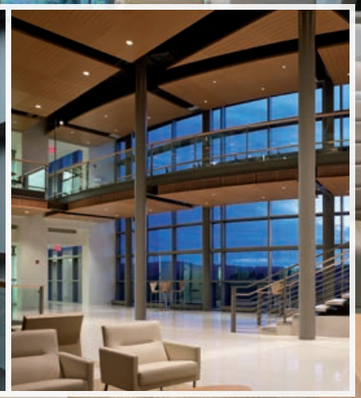
Project:

Boehringer Ingelheim

Product:
Acoustic-Lightboard®
Steamed Beech veneer
Perforation MR 150500

Year:
2008

Quantity:
approx. 425 m^2



Project:

Telekom

Product:
Acoustic-Lightboard®
HPL white
Perforation MR 100300

Year:
2008

Quantity:
approx. 7.200 m^2

Reference projects

Richter® akustik & design

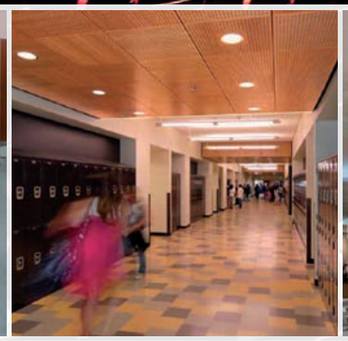
... when it matters!

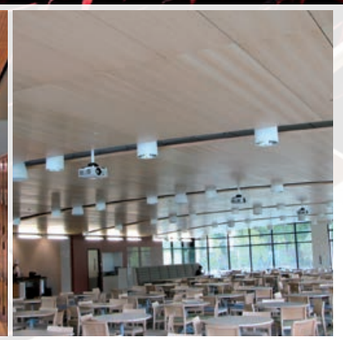
Project:
German Theatre in Munich

Product:
Acoustic-Lightboard®
Fire retardant construction
Perforation MR 100300

Year:
2013

Quantity:
approx. 457 m²

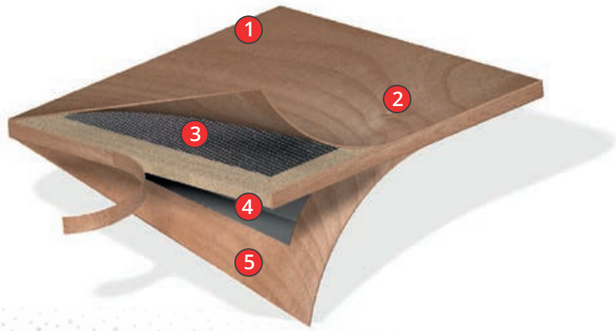




More Applications:
Offices, conference rooms, halls and corridors

Material

High pressure laminates and wood veneers are perforated with the highest precision from 0.5mm to 1.5mm diameter perforations. The front and back surfaces of Acoustic-Lightboard® are available with the entire range of precise perforations.

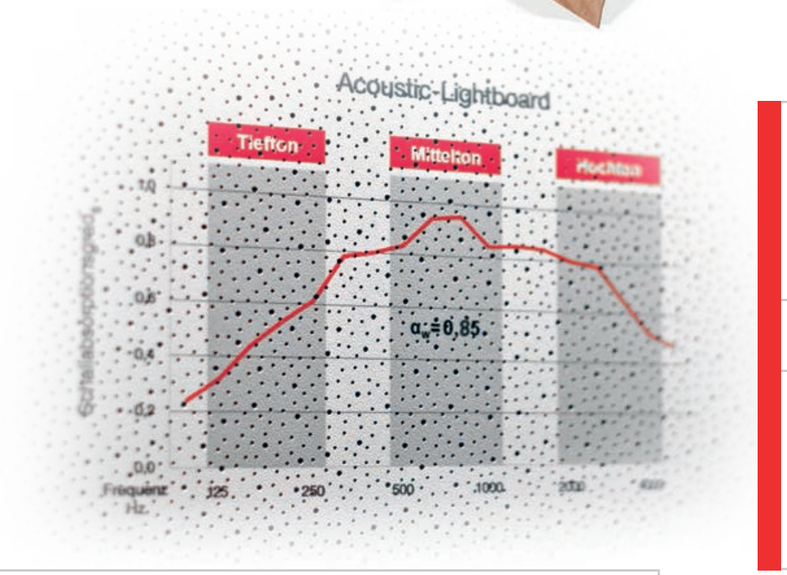


1. **Front high pressure laminate or wood veneer with hole patterns**
2. **Un-perforated edge border (depends on hole pattern)**
3. **Internal honeycomb structure with a rigid perimeter frame design**
4. **Black acoustical fleece**
5. **Perforated back surface**

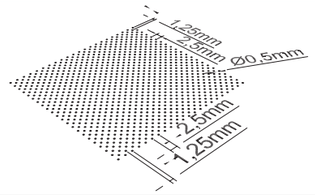
Micro-perforation
Diameters of **0.5 to 1.5 mm** / **Various perforations patterns** on front and back surfaces available.
Un-perforated edge widths can vary independently on all four edges (depending on the perforation).

Acoustic-Lightboard®

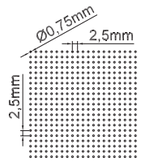
Properties for perfect acoustics



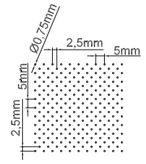
MR050250V



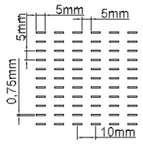
MR075250



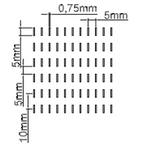
MR075500V



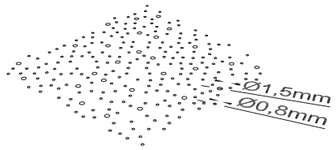
MS075500H



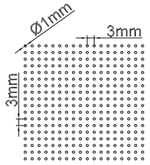
MS075500V



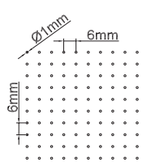
Random 1.0



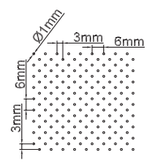
MR100300



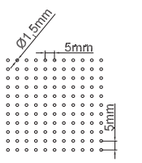
MR100600



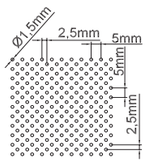
MR100600V



MR150500



MR150500V



Technical data

Height/Length	Up to 4.000 mm (157.5 inches)
Width	Up to 1.550 mm (61 inches)
Standard thickness	19 mm (0.75“) and 16 mm (0.63“) - optional thicknesses available
Honeycomb	15 mm (0.59“) and 18 mm (0.71“) - optional thicknesses available
Frame construction	Standard 25 mm (0.98“) wide internal perimeter frame; Additional 50 mm (1.97“) wide internal perimeter frame for fittings and hardware attachment such as hinges - optional widths available
Covering	2 mm veneer (0.5 mm thick wood veneer plus 1.5 mm thick HDF) 0.8 mm thick High Pressure Laminate
Standard hole patterns	See next page ”Micro-perforation”
Border	Acoustic-Lightboard panels can have an un-perforated border or be perforation edge-to-edge depending on design and selected perforations

Options

Edging	Veneer edgebanding at 0.6 mm, 1 mm or 2 mm in thickness ABS edgebanding; Tongue and groove edge profiles available
Finish	Fine sanded Two part catalyzed clear lacquer. Veneer staining. Custom colored lacquer.
Material	FSC® or PEFC available

Acoustic-Lightboard®

Also effective in matters of fire protection

B-s1-d0
B-s2-d0
Class A

Acoustic-Lightboard® are able to meet the requirements of fire protection

DIN 13501-1
ASTM E 84

Test procedures in accordance with DIN13501-1, SBI test method according to DIN EN 13823 and ASTM E 84 (USA)

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