ProAcoustic ProAcoustic light NEW!

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www.egger.com

EGGER ProAcoustic

MORE FROM WOOD.



In modern architecture, more and more reverberant materials are being used. However, the use of extensive glass facades and concrete ceilings results in poor room acoustics. But with just a few simple measures the acoustics in offices and banks – in particular those which are being refurbished – can be improved.

That's why we have developed sound absorbing boards in co-operation with the company Acoustic+. In addition to ProAcoustic standard and ProAcoustic furniture boards we can now offer two new innovative products – ProAcoustic *light* furniture boards and ProAcoustic *light* back panels.

Hearing and seeing are definitely the most important communication factors, therefore the interaction of different materials when planning and designing noisy rooms should be considered. Planning should include the right combination of reflecting and absorbing products, whilst a choice of decorative products is crucial for design. With their micro perforations and melamine faced surface, EGGER acoustic boards combine sound-absorption with a decorative finish. The product ranges ProAcoustic and ProAcoustic *light* not only have barely visible linear micro perforation, but can also be combined with other EGGER products in matching decors. Within the ProAcoustic product range both between single-sided decorative **standard boards** and double-sided decorative **furniture boards** are available. Whilst with ProAcoustic *light* we offer between double-sided decorative **back panels** and **furniture boards**.

#### **APPLICATIONS AND USES**

- ceiling and wall panelling
- furniture with an acoustic function
- fixed and mobile dividing walls
- high quality interior fittings

#### **OUTSTANDING QUALITIES**

- excellent sound absorption qualities
- durable, scratch resistant and easy to clean
- easy to fabricate
- available in the full EGGER colour range
- impact resistance (e.g. can be used in sports halls)\*

EGGER Acoustic boards can be used anywhere where there is a requirement not only for sound absorption but also for decorative, low maintenance surfaces, which are functional and economical to use. With ProAcoustic and ProAcoustic *light* you can now choose the right product for the application you require – for example offices and conference rooms, multifunctional halls and lobbies.

The excellent sound absorption values, the easy processing as well as the availability of other EGGER products in matching decors render the EGGER Acoustic boards interesting for both architects and manufacturers. ProAcoustic and ProAcoustic *light* boards can be delivered as full boards or cut to size. Next to the edging with matching ABS Edgings they can also be supplied with individual dowel fitting systems, hinges and handles.

Fittings systems, technical data sheets, processing instructions and test reports for acoustic values, formaldehyde and impact strength can be found on **www.egger.com** under Products / Acoustic Boards.



**PROACOUSTIC STANDARD BOARDS (Stock Variety)** 

**APPLICATIONS:** Acoustic clouds or baffles, ceiling- and wall panels

#### **DETAILED VIEW:**

- EGGER Laminate, linear perforated
- EUROSPAN<sup>®</sup> JP F0,3(F\*\*\*\*), 18 mm
- 8 EGGER Laminate, linear perforated
- Ø Black acoustic membrane



#### **GENERAL TECHNICAL DATA:**

– Substrate:	EUROSPAN® JP F0,3(F****)
- Board size:	3020 x 1320 x 20 mm – Microperforated usable width 1300 mm
	Other board sizes, as well as bespoke components, are available upon request
- Delivery:	10 boards per pack, or exact number.
- Weight:	11.5 kg/m²
- Perforated surface area:	8.7%
– Perforation:	Diameter of perforation 1 mm – Perforation pitch 3 mm linear
<ul> <li>Decor match system:</li> </ul>	Matching Melamine Faced Chipboard, as well as 2 mm ABS edging, available from stock

Further detailed information can be found on our "EGGER ProAcoustic Boards technical data sheet"

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#### **PROACOUSTIC STANDARD BOARDS**

Illustration of wall cladding with or without insulation



#### **PROACOUSTIC STANDARD BOARDS**

Stock programme for boards 3020 x 1320 x 20 mm - further decors available upon request

H1920 ST9 Natural Tyrolean Beech	H1887 ST9 Natural Starnberg Maple
H1334 ST9 Light Ferrara Oak	H1696 ST15 Piemont Cherry
H1951 ST15 Sienna Calvados	H3704 ST15 Tobacco Aida Walnut
U999 ST2 Black	F509 ST2 Aluminium
<b>U708 ST2</b> Light Grey	W980 ST2 Platinum White

PROMPT

AVAILABILITY

The following tests were measured and evaluated in accordance with DIN EN ISO354.

#### PROACOUSTIC STANDARD BOARDS

#### **ABSORPTION VALUES** with a cavity of 50 mm

ProAcoustic absorption values - Comparison with and without insulation



#### **ABSORPTIONS VALUES** with a cavity of 200 mm

ProAcoustic absorption values - Comparison with and without insulation



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#### **PROACOUSTIC STANDARD BOARDS**

#### **ABSORPTIONS VALUES** with a cavity of 400 mm

ProAcoustic absorption values - Comparison with and without insulation



#### **ABSORPTION VALUES for acoustically effective sections**

ProAcoustic Absorption values - 250 mm cavity:

Frequency	Cavity	
	250 mm	
[Hz]	$[\alpha_s]$	
100	0.07	
125	0.36	
160	0.34	
200	0.47	
250	0.51	
315	0.75	
400	0.76	
500	0.81	
630	0.82	
800	0.88	
1000	0.93	
1250	0.90	
1600	0.91	
2000	0.87	
2500	0.83	
3150	0.78	
4000	0.80	
5000	0.78	
SAA*	<b>0.79</b> α <sub>s</sub>	



\* Sound Absorption Average

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#### **PROACOUSTIC FURNITURE BOARDS**

**APPLICATIONS:** Acoustically effective furniture, partition walls and acoustic clouds or baffles

#### **DETAILED VIEW:**

- EGGER Laminate, linear perforated
- EUROSPAN<sup>®</sup> JP F0,3(F\*\*\*\*), 18 mm
- 8 Black acoustic membrane
- EGGER Laminate, linear perforated

### ProAcoustic Furniture Boards are only produced upon request



#### **GENERAL TECHNICAL DATA:**

– Substrate:	EUROSPAN® JP F0,3(F****)
– Board size:	3020 x 1320 x 20 mm – Microperforated usable width 1300 mm
	Other board sizes, as well as bespoke components, are available upon request
- Delivery:	10 boards per pack
- Weight:	11.5 kg/m²
- Perforated surface areas	8.7%
<ul> <li>Perforation:</li> </ul>	Diameter of perforation 1 mm - Perforation pitch 3 mm linear
<ul> <li>Decor match system:</li> </ul>	Matching Melamine Faced Chipboard, as well as 2 mm ABS edging, available from stock

Further detailed information can be found on our "EGGER ProAcoustic Boards technical data sheet"

The following tests were measured and evaluated in accordance with DIN EN ISO354.

#### **PROACOUSTIC FURNITURE BOARDS**

**ABSORPTION VALUES for partition walls** 

ProAcoustic furniture boards

Frequency [Hz]	Freestanding $[\alpha_{s}]$	
100	0.55	
125	0.58	
160	0.53	
200	0.67	
250	0.87	
315	0.80	
400	0.85	
500	0.88	
630	0.92	
800	0.87	
1000	0.83	
1250	0.78	
1600	0.71	
2000	0.72	
2500	0.71	
3150	0.74	
4000	0.82	
5000	0.94	
SAA*	<b>0.80</b> α <sub>s</sub>	



#### **ABSORPTION VALUES for acoustically effective sections**

ProAcoustic furniture boards – 250 mm cavity:

Frequency	Cavity	
	250 mm	
[Hz]	[α <sub>s</sub> ]	
100	0.02	
125	0.25	
160	0.35	
200	0.64	
250	0.75	
315	0.71	
400	0.79	
500	0.79	
630	0.73	
800	0.72	
1000	0.73	
1250	0.71	
1600	0.66	
2000	0.64	
2500	0.66	
3150	0.69	
4000	0.73	
5000	0.81	
SAA*	<b>0.71</b> α <sub>s</sub>	



\* Sound Absorption Average

The following tests were measured and evaluated in accordance with DIN EN 354: 2003-12.

#### **PROACOUSTIC FURNITURE BOARDS**

#### **Types of cabinet**

#### Equivalent absorption values for a free-standing office cabinet

Frequency	Sound absorption value for cabinets		
	Type 1	Туре 2	Туре 3
[Hz]	[m <sup>2</sup> ]	[m <sup>2</sup> ]	[m <sup>2</sup> ]
100	1.84	2.29	2.36
125	2.23	2.05	2.38
160	1.85	1.93	2.40
200	1.89	2.30	2.89
250	1.90	1.79	2.29
315	1.70	1.74	2.43
400	1.28	1.65	2.54
500	1.53	1.64	2.57
630	1.58	1.66	2.77
800	1.54	1.55	2.92
1000	1.50	1.54	2.99
1250	1.47	1.52	3.16
1600	1.42	1.42	3.09
2000	1.42	1.41	3.20
2500	1.38	1.34	3.17
3150	1.35	1.34	3.08
4000	1.29	1.26	3.00
5000	1.29	1.26	2.79
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#### **PROACOUSTIC FURNITURE BOARDS**

#### **Acoustically effective cabinets**

Free-standing office cabinet with a dimension of 1840 x 800 x 435 mm



#### **PROACOUSTIC LIGHT FURNITURE BOARDS AND BACK PANELS**

With ProAcoustic light furniture boards and ProAcoustic light back panels we have enlarged our range of sound absorbing boards in partnership with Acoustic+. Acoustic properties are becoming increasingly important for furniture, when glass, metal and concrete are used in the construction of buildings as every acoustic improvement is helpful. The use of acoustic furniture even has the potential to avoid cost intensive building measures. The use of sound absorbing cupboard doors instead of more reverberant alternatives can improve the acoustics in a room noticeably and provide a more pleasant atmosphere.



#### **PROACOUSTIC LIGHT FURNITURE BOARDS**

#### **DETAILED VIEW:**

- Perforated composite board 3 mm MDF laminate with EGGER Laminate
- O Cardboard honeycomb core
- 8 Black acoustic membrane
- O Perforated composite board 3 mm MDF laminate with EGGER Laminate



#### **GENERAL TECHNICAL DATA:** – Perforated surface area: 8%

- Perforation:
  - Diameter of perforation 1.2 mm -Perforation pitch 3.75 mm linear
- Maximum board size: 3500 x 1300 x 19 mm
- Weight:
- Delivery:
- 5.8 kg/m<sup>2</sup> Only produced upon request either as full boards or cut-to-size boards

#### **PROACOUSTIC LIGHT BACK PANELS**

#### **DETAILED VIEW:**

- Perforated EGGER Laminate
- O Cardboard honeycomb core
- 8 Black acoustic membrane
- O Perforated EGGER Laminate



#### **GENERAL TECHNICAL DATA:** – Perforated surface area: 8.7%

- Perforation:
- Diameter of perforation 1 mm Perforation pitch 3 mm linear
- Maximum board sizes: 3500 x 1300 x 11 mm or 3500 x 1300 x 8 mm 2.6 kg/m<sup>2</sup>
- Weight:
- Delivery:
- Only produced upon request either as full boards or cut-to-size boards

#### **PROACOUSTIC LIGHT FURNITURE BOARDS**

#### **Acoustically effective cabinets**

Free-standing office cabinet with a dimension of 1840 x 800 x 435 mm



The following tests were measured and evaluated in accordance with DIN EN 354: 2003-12.

#### **PROACOUSTIK LIGHT FURNITURE BOARDS**

**Acoustically effective cabinets** 

#### Free-standing office cabinet with a dimension of 1840 x 800 x 435 mm



All decors shown are reproductions. Due to the variables in the printing process, colours may vary slightly from the actual product.



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