

PLAKA - PICTURE PLUS**Absorption panel with metal frame and exchangeable printed fabric**

REF 12.12.13 - Version V01 - 24/08/2020

**Description**

PLAKA PICTURE PLUS consists of a PLAKA PLANO melaminic resin foam board with an aluminium frame, visible on the sides, for wall mounting. PLAKA PLANO is a flexible, open-cell foam made of melamine resin, a thermosetting plastic from the aminoplast group. Its filigree, spatial mesh structure formed by slender and easily deformed bridges, is a typical characteristic. PLAKA PLANO has a wide range of attractive properties. The salient quality characteristics are:

- highly sound absorbing
- lightweight

The aluminium frame has either a 34 mm or 50 mm installation depth and a location groove for the material cover in front. PLAKA PLANO absorber panels 30 mm thick (for the frame of 34mm deep) or 50mm thick (for the frame of 50mm deep) are used as inserts. The material cover is individually printable. The sewn filling profile enables simple exchange of the print motif at a later stage. This renders PLAKA PICTURE PLUS a design element for functional wall areas, which can also drastically reduce both reverberation time and sound level.



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Application fields

As a wall picture in

- Offices and administration buildings
- Kinder gardens and schools
- Shops
- Call centers
- Banks and insurance companies

Properties

Mechanical properties	
Basic material	PLAKA PLANO – melamine resin foam plastic
Color	White or grey (frame color silver matt or coloured on request)
Density	From 8 to 11 kg/m ³
Reaction to fire	Class 1 : CSE RF/2/75/A and CSE RF 3/77
Thermal stability	Long-term thermal stability : 80 °C Short-term thermal stability : 100 °C
Dimensions (standard dimensions)	Frame depth : 34 or 50 mm Melaminic resin foam thickness : 30 or 50 mm Length and width : 500 x 1000 mm 1000 x 1000 mm 1000 x 1500 mm 1000 x 2000 mm Other dimensions available on request
reaction to fire : Fire behavior :	Class 1 : CSE RF/2/75/A and CSE RF 3/77
<ul style="list-style-type: none"> • Melamine resin foam material PLAKA PLANO • Fabric cover : 	B1 – flame resistant in acc. with DIN 4102. B1 – flame resistant in acc. with DIN 4102.

Sound absorption of PLAKA PLANO in reverberation chamber according to DIN EN ISO 354

8 differently sized elements lying on the floor, test area 10,5 m², melaminic resin foam of 30 mm thick

Room volume	391,6 m ³	Test sound	Broadband noise
Room surface	322,2 m ²	Receiver filter	Third octave band filter
Test date	21.08.2012	Testing body	TÜV Rheinland LGA Products GmbH

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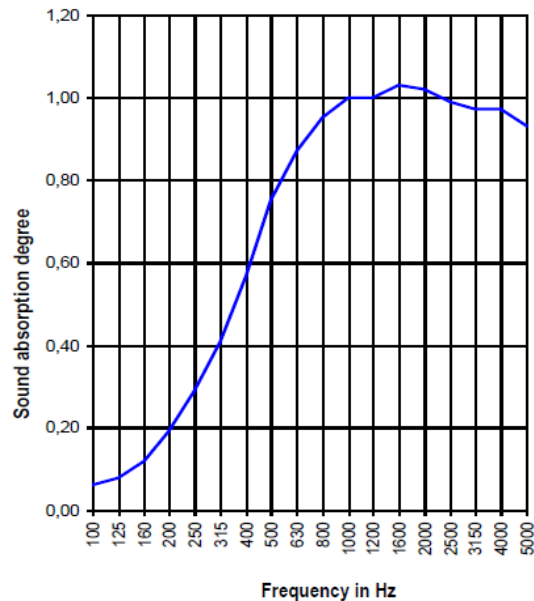
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Sound absorption degree α		
Frequency [Hz]	Third octaves	Oktaves
	α	α
100	0.06	0.09
125	0.08	
160	0.12	
200	0.19	0.30
250	0.29	
315	0.41	
400	0.57	0.73
500	0.75	
630	0.87	
800	0.95	0.98
1000	1.00	
1200	1.00	
1600	1.03	1.01
2000	1.02	
2500	0.99	
3150	0.97	0.96
4000	0.97	
5000	0.93	



Individual value α_w to DIN EN ISO 11654	Noise absorption class to annex B of DIN EN ISO 11654	Noise reduction coefficient NRC to ASTM C 423
0.60 (M, H)	C	0.75

Important notice :

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Dimensions

Reference code	Description	Box
PLAKA PICTURE PLUS – Frame depth 34 mm		
AKABSPICPLUS100503	PLAKA PICTURE PLUS 1000 x 500 x 34 mm Absorption panel in melamine resin foam inserted in a steel frame 34 mm deep with exchangeable printed fabric	1
AKABSPICPLUS101003	PLAKA PICTURE PLUS 1000 x 1000 x 34 mm Absorption panel in melamine resin foam inserted in a steel frame 34 mm deep with exchangeable printed fabric	1
AKABSPICPLUS101503	PLAKA PICTURE PLUS 1000 x 1500 x 34 mm Absorption panel in melamine resin foam inserted in a steel frame 34 mm deep with exchangeable printed fabric	1
AKABSPICPLUS102003	PLAKA PICTURE PLUS 1000 x 2000 x 34 mm Absorption panel in melamine resin foam inserted in a steel frame 34 mm deep with exchangeable printed fabric	1

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PLAKA PICTURE PLUS – Frame depth 50 mm		
AKABSPICPLUS100505	PLAKA PICTURE PLUS 1000 x 500 x 50 mm Absorption panel in melamine resin foam inserted in a steel frame 50 mm deep with exchangeable printed fabric	1
AKABSPICPLUS101005	PLAKA PICTURE PLUS 1000 x 1000 x 50 mm Absorption panel in melamine resin foam inserted in a steel frame 50 mm deep with exchangeable printed fabric	1
AKABSPICPLUS101505	PLAKA PICTURE PLUS 1000 x 1500 x 50 mm Absorption panel in melamine resin foam inserted in a steel frame 50 mm deep with exchangeable printed fabric	1
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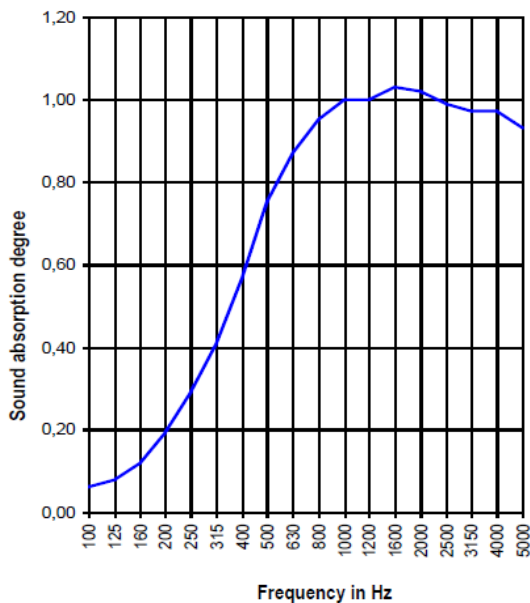
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