

AKUSTIK® - METAL SLIK Art. 1

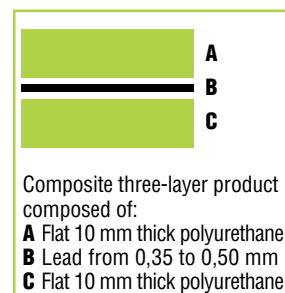


POLYURETHANE FOAM
SOUND-INSULATING
PANEL WITH
INTERMEDIATE LEAD
SHEET LAYER

MATERIAL

Combination of two layers of polyester-based self-extinguishing, non drip polyurethane foam, density 35 kg/m³ separated by 5/10 thick lead sheet to absorb medium and low frequencies. Resistant to temperatures from -50°C to +110°C.

COMPOSIZIONE



STANDARD SIZE

Panels:

1000 x 1000 mm

1000 x 3000 mm

Thickness:

20 - 25 - 30 - 40 mm;

Other sizes on request.



REACTION TO FIRE

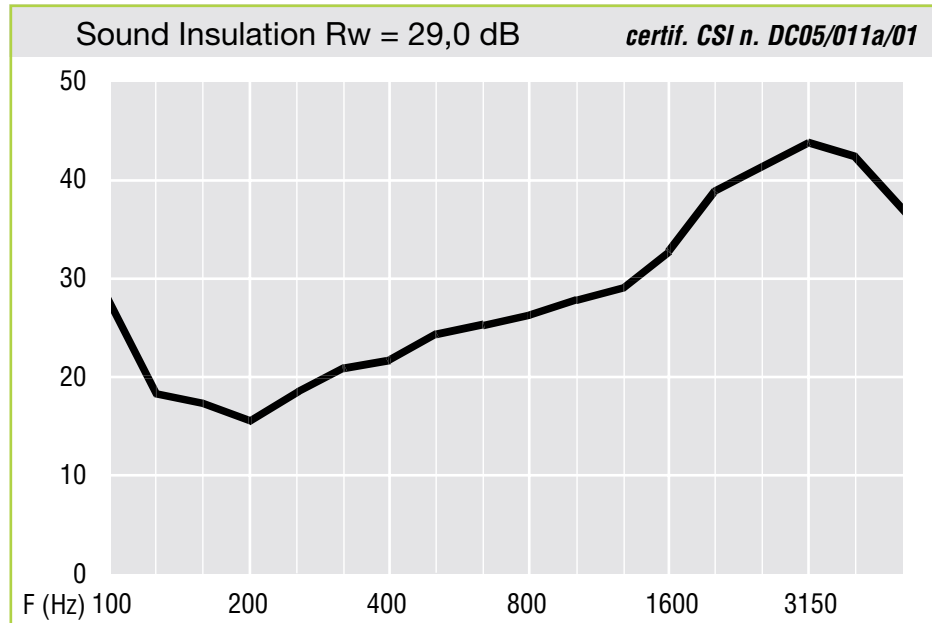
Class 2 (self-extinguishing, non drip material) to UL94 HF1 standard DIN 75200 MVSS 302 standard.

FIELDS OF APPLICATION

Used for sound insulated walls where the reflecting power of lead needs to be combined with a certain absorption power of the polyurethane. Insulation of spaces, engine housings, partition walls, ceilings, machinery garages, compartment linings, etc. Whenever protection from external agents such as oil, grease, dust, and water etc. is required, the panel can be supplied in versions with a protective film applied to the surface.

INSTALLATION

Using paste adhesive on the flat and curved surfaces of any kind, provided they are free of dust, oil and grease. In the case of ceiling applications the use of special fixing devices is recommended. The product can also be supplied with self-adhesive surfaces to facilitate application.



Surface area of test element = 1.00 m²
L1= mean level of sound pressure in disturbing chamber
L2= mean level of sound pressure in disturbed chamber
D = **L1** - **L2** = acoustic insulation

T = mean reverberation time in disturbed chamber
F = 10 log (S*T) / (0.15*V)
R = D+F - sound insulation power
 Volume of disturbed chamber = 83.00 m³

Frequency background	L1	L2	D	T	F	R	
Hz	dB	dB	dB	sec	dB	dB	
100	22,40	80,10	45,30	34,8	1,07	-8,0	26,8
125	23,70	77,30	52,40	24,9	1,75	-5,9	19,0
160	24,80	79,20	56,40	22,8	2,14	-5,0	17,8
200	23,30	80,80	58,10	22,7	1,43	-6,8	15,9
250	23,90	82,20	56,50	25,7	1,35	-7,0	18,7
315	18,00	84,40	57,40	27,0	1,45	-6,7	20,3
400	12,10	83,70	55,40	28,3	1,34	-7,1	21,2
500	10,20	84,00	53,60	30,4	1,58	-6,3	24,1
630	8,50	87,30	55,30	32,0	1,44	-6,7	25,3
800	6,30	84,90	51,20	33,7	1,38	-6,9	26,8
1000	4,90	84,10	47,90	36,2	1,26	-7,3	28,9
1250	3,50	82,30	42,30	40,0	1,13	-7,8	32,2
1600	3,60	81,70	37,80	43,9	1,17	-7,6	36,3
2000	4,30	81,90	34,30	47,6	1,07	-8,0	39,6
2500	5,00	82,70	32,80	49,9	1,03	-8,2	41,7
3150	5,70	82,20	29,00	53,2	0,84	-9,1	44,1
4000	6,50	82,60	29,50	53,1	0,81	-9,2	43,9
5000	7,20	82,90	35,00	47,9	0,69	-9,9	38,0
dB(A)	21,40	94,3	59,6	34,7	1,36	-7,0	27,7