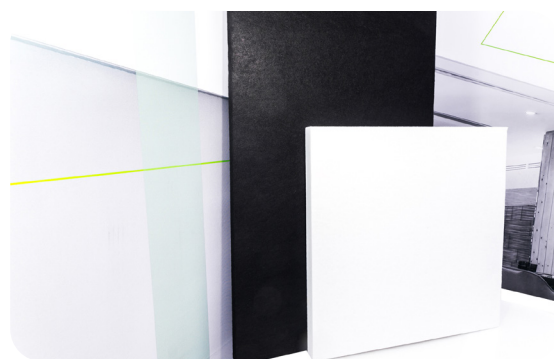


Sound absorbing line

POLYWALL NLS

High sound absorption



ADVANTAGES

- High sound absorption
- Material ready for delivery
- Applicable on any surface



THE INTERNATIONAL EPD® SYSTEM
S-P-05235 www.environdec.com

DESCRIPTION

Polyester fibre panel in white (BLS) or black (NLS) colour in Euroclass B, s2-d0 with excellent sound absorbing properties, designed for the visible treatment of particularly noisy and reverberating places such as bars, restaurants, theatres, cinemas, schools, conservatories, public places in general.

Its faces are specially processed in the surface with a special process of ironing and smoothing to make them even more pleasant to the eye and prevent the deposit of dust and dirt in general.

SIZE

Thickness	mm	40 mm	40 mm
Format	Panel	59,5 x 59,5 cm	59,5 x 119,5 cm
Packaging	Piece	26	13
Weight	Kg/mq	0,57 Kg/mq	0,57 Kg/mq



TECHNICAL INFORMATION

59,5 x 59,5 cm

59,5 x 119,5 cm

Density [ρ]		40 Kg/mq	40 Kg/mq
Sound absorption coefficient [α_w]	UNI EN ISO 354	0,7	0,7
Fire classification [Class]	EN 13501-1	B, s2-d0	B, s2-d0
Reaction to fire [Class]	UNI 9177 UNI 8457 UNI 9174	1	1
Impact resistance with Magnetic Kit	DIN 18032	EXCEEDED	EXCEEDED
Mechanical resistance with magnetic baffles kit	UNI EN 13964	Passed with exposure class A	Passed with exposure class A
Volatile organic compound (TVOC) emission	UNI EN ISO 16000 - 9	CLASSE A+	CLASSE A+

DOP

POLYMAXITALIA SRL headquartered in Via Fusina no. 12 of Castelfranco Veneto, a company operating in the production and marketing of materials and systems for the acoustic insulation of buildings and subjected to quality control ISO 9001, with reference to European Regulation 305/2011 (ex Directive 89/106), regulating the performance of construction products, in force since 1 year. July 2013: “in the absence of harmonised European standards for products with a sound insulation function, result in performance dependent not on the individual product but on a combination of components and the basic building system”,

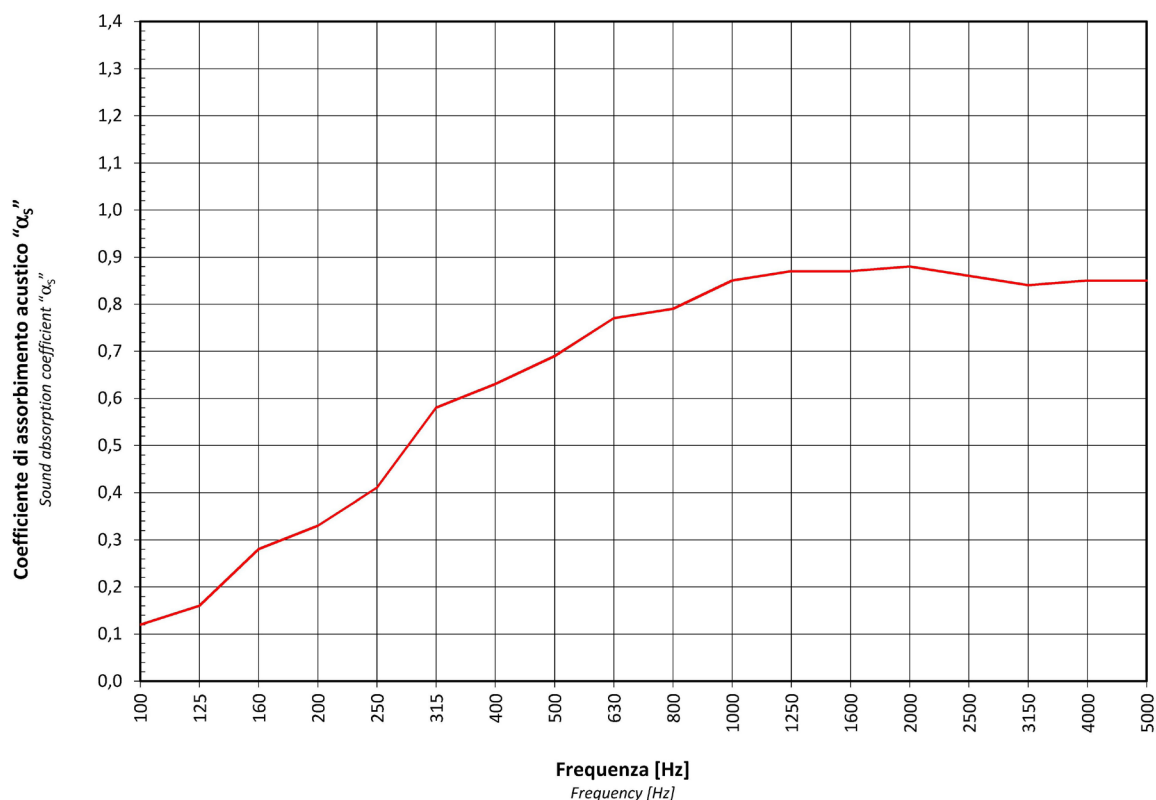
DECLARES

than for the product POLYWALL NLS sp. 40 mm, is not bound to the certification process aimed at the production of the declaration of performance.

In this regard, the data reported in the relevant product fiche are authentic.



ANDAMENTO DEL COEFFICIENTE DI ASSORBIMENTO ACUSTICO "α_s" PER TERZI D'OTTAVA ONE-THIRD OCTAVE SOUND ABSORPTION COEFFICIENT CURVE "α_s"



Frequenza Frequency [Hz]	T ₁ [s]	T ₂ [s]	α _s	v _{eff}	k	U
100	7,76	6,10	0,12	22	2,00	0,02
125	7,41	5,42	0,16	20	2,00	0,03
160	7,78	4,70	0,28	18	2,00	0,04
200	7,71	4,37	0,33	13	2,00	0,03
250	7,91	4,01	0,41	13	2,00	0,03
315	7,62	3,27	0,58	14	2,00	0,03
400	7,61	3,11	0,63	12	2,00	0,05
500	6,99	2,85	0,69	13	2,00	0,04
630	6,15	2,52	0,77	12	2,00	0,05
800	5,56	2,38	0,79	12	2,00	0,03
1000	5,30	2,24	0,85	18	2,00	0,02
1250	4,68	2,10	0,87	15	2,00	0,05
1600	4,45	2,05	0,87	14	2,00	0,03
2000	3,95	1,93	0,88	13	2,00	0,03
2500	3,59	1,86	0,86	16	2,00	0,02
3150	3,07	1,73	0,84	15	2,00	0,02
4000	2,62	1,58	0,85	13	2,00	0,03
5000	2,16	1,40	0,85	17	2,00	0,03

Frequenza Frequency [Hz]	"α _p " in bande d'ottava (valore approssimato a 0,05 con valore massimo pari a 1,00) "α _p " in octave bands (approximate value at 0,05 with maximum value of 1,00)
125	0,20
250	0,45
500	0,70
1000	0,85
2000	0,85
4000	0,85

