



AECO ZERO

SOUND ABSORBENT PANELS FOR REVERBERATION TIME TREATMENT

Sound absorbent panels for the acoustic adjustment of recording studios, meeting rooms, restaurants etc, where is evident the necessity to reduce the reverberation time "echo effect".

AECO ZERO PYRAMIDAL (Polyurethane – Melamine Resin)

AECO ZERO Pyramidal is made up of expanded polyurethane, flexible to open cells, made of polyester, 35 kg/m³ density, anthracite colour; temperature resistance: -10°C and + 90°C. Very good for absorbent acoustic insulation, it also gives a good thermal insulation, with a consequent energy saving.

The **AECO ZERO** Pyramidal panel, thanks to its angular structure which triple the absorbing surface, allows to reach very high acoustic absorption levels, with very good results on medium high frequencies (500-2000 Hz).

AECO ZERO Pyramidal can be made of expanded Basotect® by BASF, based on melamine resin, pale grey colour. Product with a high thermal resistance*150°C, it is in class 1 and in case of fire, does not drip and it is not fibrinogen.

AECO ZERO Pyramidal in melamine resin has a very high acoustic absorption, in particular on medium high frequencies (500-2000 Hz).

AECO ZERO DIMPLED

AECO ZERO Dimpled is made up of flexible polyurethane foam based on polyester, self-extinguishing, not dripping, such as NG35 of anthracite colour. It allows to disperse the very high intensity of the acoustic energy produced in the environment.

AECO ZERO Dimpled is a sound absorbing product widely used for the acoustic restoration of industrial environment, in the sound absorbent coating of air pipes, of shooting ranges, of carters internal coating, encapsulations, silencers, acoustic cabins, ventilation systems, etc.

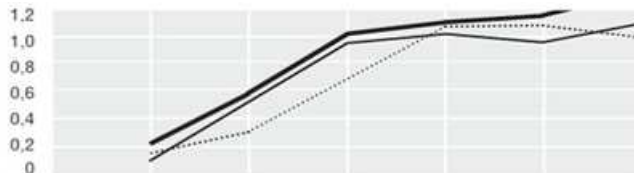
Whereas is necessary to obtain a very high sound absorbing coefficient, **AECO ZERO** either Pyramidal and Dimpled can be assembled to the sound insulating barrier **AESTARK PLUS**.

Light and practical, the **AECO ZERO** panels are particularly simple to be used and prove to be the ideal solution for the instantaneous acoustic treatment. Available in various sizes, allows to improve the functionality with the architecture of all interiors.

ACOUSTIC PERFORMANCES

AECO ZERO PYRAMIDAL (Polyurethane)

Acoustic absorbance degree (αS)



Frequency (Hz)		125	250	500	1000	2000	4000
Noise	—	0,22	0,55	0,96	1,13	1,15	1,43
absorbance αS	—	0,08	0,53	0,90	1,03	0,97	1,03
degree	*****	0,11	0,27	0,59	1,08	1,07	1,01

— 100 mm of pyramidal plate, exited by shot

- - - 100 mm of pyramidal plate, exited by speaker

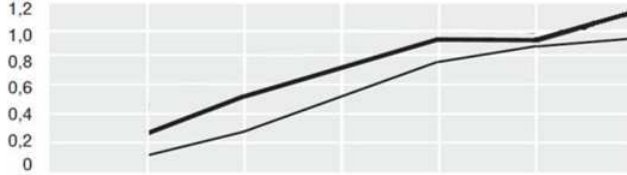
..... 100 mm of pyramidal plate, exited by speaker

Determination of the acoustic absorbance factors according to DN 52212 in a big reverberant chamber



AECO ZERO PYRAMIDAL (Melamine Resin)

Acoustic absorbance degree (αS)

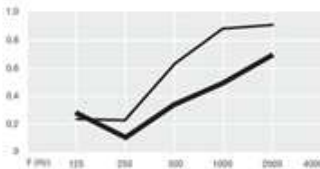


Frequency (Hz)		125	250	500	1000	2000	4000
50/60 αS	—	0,13	0,25	0,50	0,75	0,88	0,94
70/100 αS	—	0,22	0,49	0,77	0,96	0,96	1,05

Determination of the acoustic absorbance factors according to DN 52212 in a big reverberant chamber

AECO ZERO DIMPLED

Acoustic absorbance degree (αS)

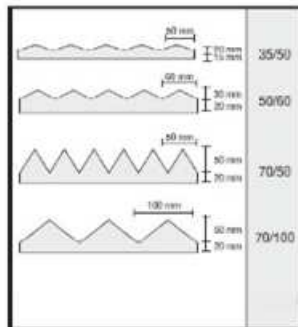


Frequency (Hz)		125	250	500	1000	2000	4000
AECO ZERO from 30 mm	—	0,25	0,11	0,37	0,47	0,68	0,69
AECO ZERO from 50 mm	—	0,22	0,20	0,61	0,89	0,92	0,69

Determination of the acoustic absorbance factors according to DN 52212 in a big reverberant chamber

SIZES

AECO ZERO PYRAMIDAL (Polyurethane –Melamine resin)



PANEL DIMENSIONS

In Polyurethane

Panel dimensions 100 x 100 cm
Thickness 35-50-70 mm

In Melamine Resin (BASF)

Panel dimensions 120 x 60 cm
Thickness 35-50-70 mm

* We can do any other size on request

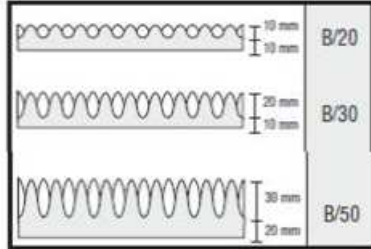


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AECO ZERO DIMPLED



PANEL DIMENSIONS

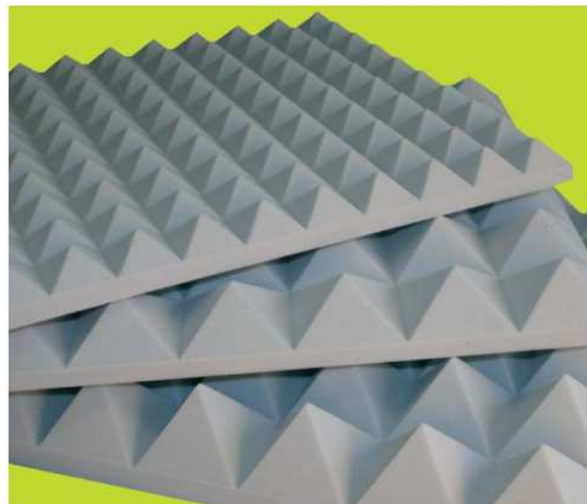
In Polyurethane
Panel dimensions 100 x 100 cm
Thickness 20-30-50 mm

EXAMPLE OF AECO ZERO PANELS

AECO ZERO PYRAMIDAL (Polyurethane)



AECO ZERO PYRAMIDAL (Melamine Resin)



Valli Zabban S.p.A. • Società Unipersonale • Share Capital € 5.000.000 i.v.
Head Office
50041 Calenzano (FI) Italy, via di Le Prata, 103 • tel. +39.055.328041 • fax +39.055.300300
www.vallizabban.com • info@vallizabban.it • vallizabban@pec.it
C.C.I.A.A. Florence N. 05476750483 • R.E.A. FI 549826 • VAT IT 05476750483





AECO ZERO DIMPLED



APPLICATION TYPE

AECO ZERO, thanks to its flexibility, can be cut with a cutter and shaped with extreme simplicity, it can be applied on any kind of surface, also curved, as long as even, free from grease, oils or dusts, by glue. It is advised to handle the panels with clean gloves to avoid to get them dirty, before the laying please check the panels real measurements since they are subject to change in dimensions due to the environment temperatures $\pm 5\%$.

PRICE LIST

AECO ZERO PYRAMIDAL (Polyurethane)

THICKNESS	THICKNESS COMPOSITION	SIZE CM	M2 PANEL	N° OF PANELS X BOX
35	15 base + 20 pyramid	100X100	1	18
50	20 base + 30 pyramid	100X100	1	14
70	20 base + 50 pyramid	100X100	1	10

AECO ZERO PYRAMIDAL (Melamine Resin)

THICKNESS	THICKNESS COMPOSITION	SIZE CM	M2 PANEL	N° OF PANELS X BOX
35	15 base + 20 pyramid	120X60	0,72	26
50	20 base + 30 pyramid	120X60	0,72	18
70	20 base + 50 pyramid	120X60	0,72	16

AECO ZERO DIMPLED (Polyurethane)

THICKNESS	THICKNESS COMPOSITION	SIZE CM	M2 PANEL	N° OF PANELS X BOX
20	10 base + 10 pyramid	100X100	1	40
30	10 base + 20 pyramid	100X100	1	26
50	20 base + 30 pyramid	100X100	1	14



TECHNICAL CHARACTERISTICS

AECO ZERO PYRAMIDAL (Polyurethane)

Material type	Soft polyurethane foam such as NG 35
Density	35 Kg/m3
Thermal conductivity coefficient	(dato)
Fire rating	Class 2, self-extinguishing, not dripping, according to norms UL 94 HF 1
Resistance to temperature	(dato)
Panels dimensions	(dato) or other
Surface at sight	pyramidal
Thickness	(dato)
Base colour	anthracite

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Thermal conductivity coefficient	(dato)
Fire rating	Class 2, self-extinguishing, not dripping, according to norms UL 94 HF 1
Resistance to temperature	(dato)
Panels dimensions	(dato) or other
Surface at sight	pyramidal
Thickness	(dato)
Base colour	anthracite

AECO ZERO PYRAMIDAL (Melamine Resin)

Density mass	(dato)
Resistance to compression at 10% crushing	(dato)
Identazione	(dato) BASF method (dato)
Load at break	(dato)
Elongation at break	(dato)
Resistance to compression at 40% deformation	(dato)
Thermal conductivity at 10°C	(dato)
Compression to compaction	(dato)
(dato)	(dato)
(dato)	(dato)
Resistance factor to steam diffusion (s)	(dato)
Acoustic absorbance	(dato)
(dato)	(dato)
Specific resistance to flow	(dato)
Temperature to use	(dato)
Behaviour to cycles continuous stress	automobile industry method (dato)
Behaviour to fire	(dato)
Fire rating	(dato) Class 1

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