



# PolySound

**URBAN  
NOISE  
CONTROL**

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## **IWMI**

UNC is probably the only one company in Cyprus that, along with supply and manufacturing, provides Designing and Installation, from experienced Acoustic Consultants and Installers respectively. Moreover, UNC has acoustic material in stock and the probably only one in Cyprus, brand-new showroom with exclusively acoustic materials and systems.

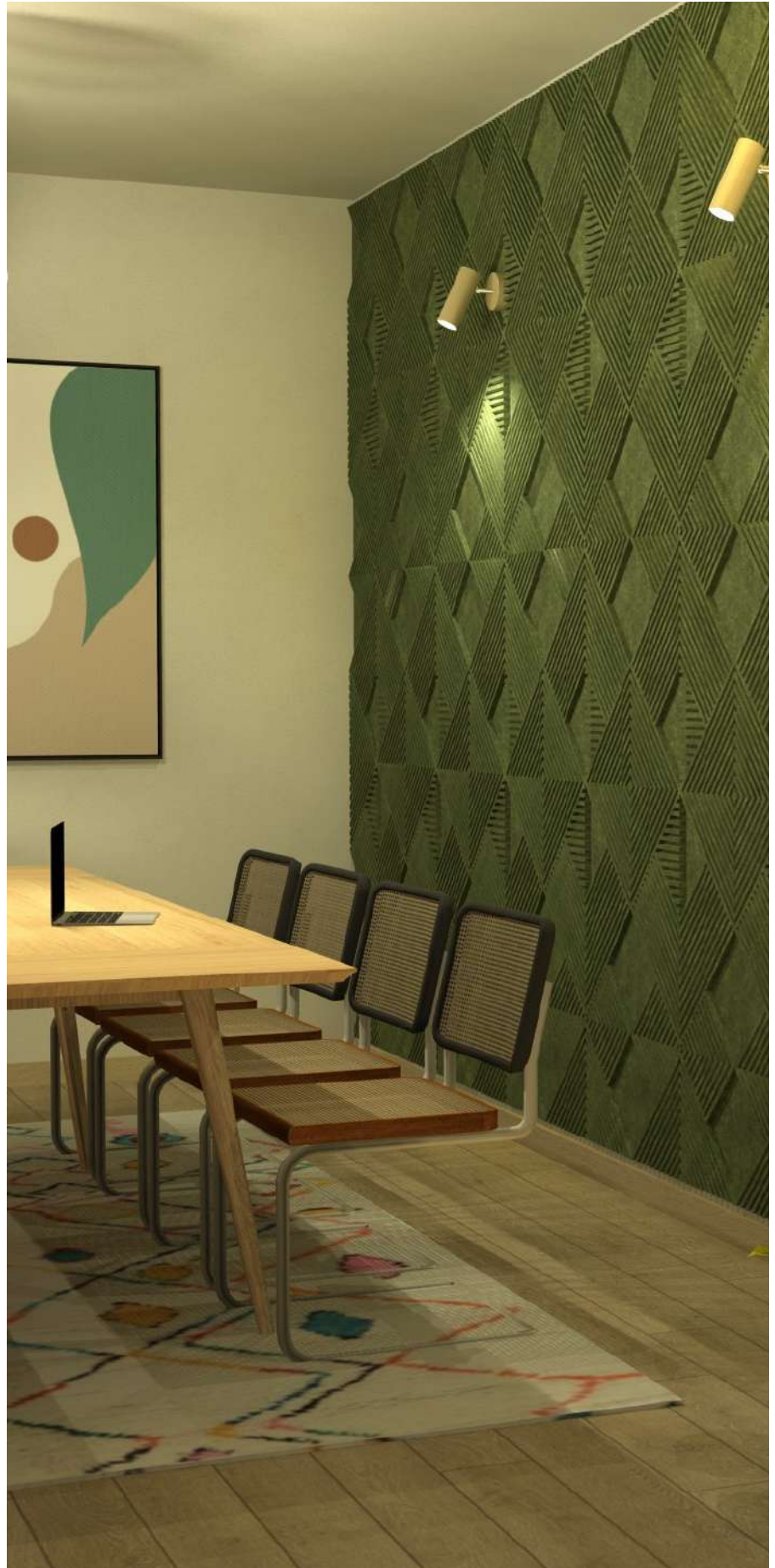
**URBAN  
NOISE  
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## PolySound

An acoustic panel, 100% made from recycled PET, which can be placed to ceilings or to walls and provide significant sound absorption and desired aesthetics, within various types (private, special, commercial) of rooms.

The various-shaped panels are being placed one next to each other, without joints in-between, resulting in a seamless-continuous run (finish) of panelling, into walls/ceilings.

The POLYSOUND is guaranteed to bring a visually eye-catching wallcovering solution to any project, through a cost-effective solution.



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## DESIGNING AND INSTALLATION

Apart from being suppliers and manufactures, UNC provide Designing and Installation services.

A specialised team of Acoustic Consultants and an experienced team of Acoustic Materials/systems Installers could carry out an end-to-end service for Acoustic treatment.

## PRODUCT AVAILABILITY AND SAMPLES

UNC always have stock of the product and samples of each one of it. Feel free to contact us, in order to setting up a meeting in our showroom.



## SPECIFICATIONS



### MAINTENANCE

It can be cleaned by using a dust broom, a vacuum cleaner or a hard-wrung cloth.



### SUSTAINABILITY

Those panels are made from sustainable materials. Panels are made from 100% polyester fiber. Containing a minimum of 75% post-consume recycled material (PET bottle-flake).



### NON TOXIC

BS EN 717-1 E0 Formaldehyde-free environmental test. It does not contain chemical binders including formaldehyde and support safer indoor air quality.



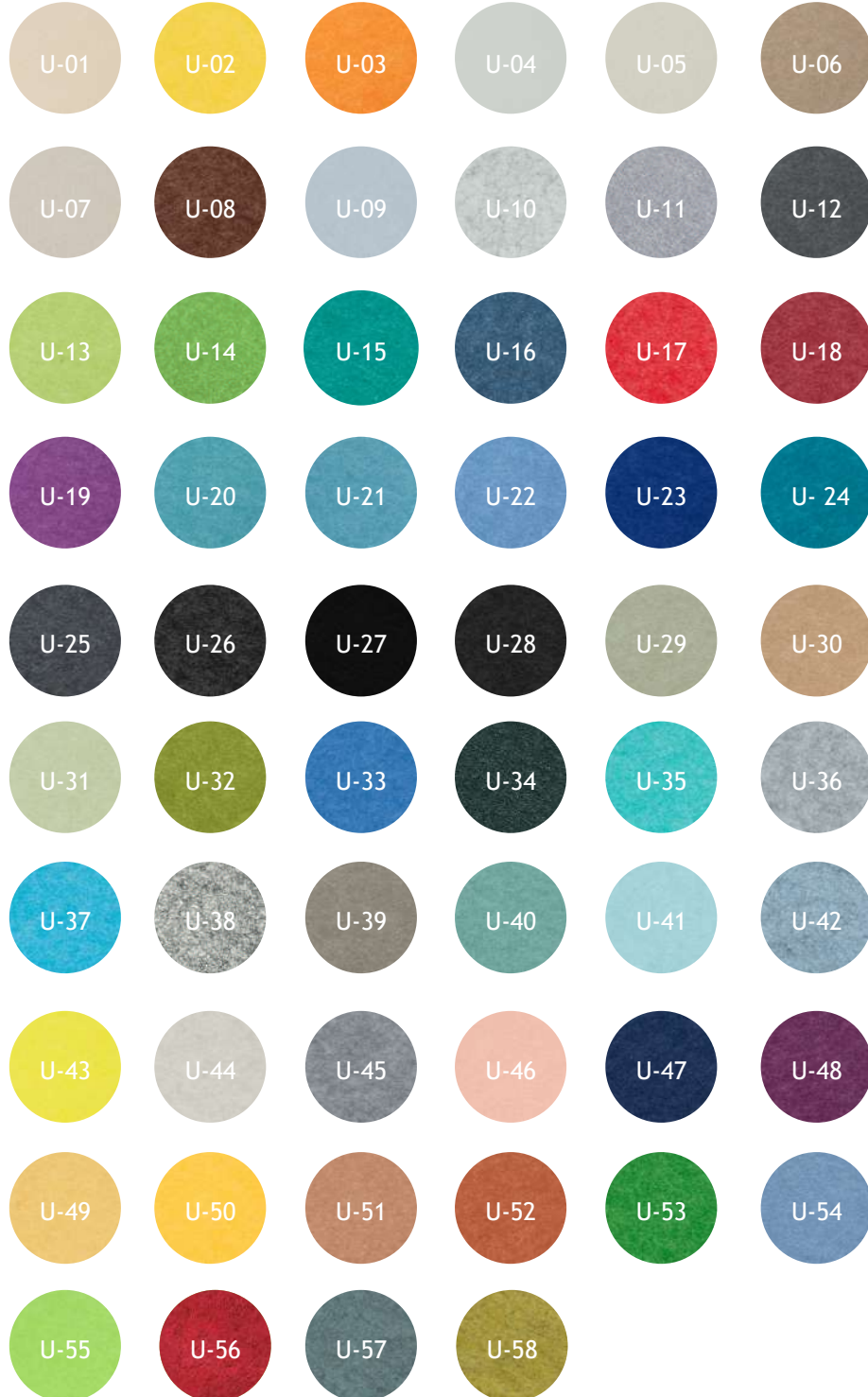
### FLAME RETARDANT

Class B-s1, d0 [EN-13501-1]

**MATERIAL**

**POLYESTER FIBER**

100% made from recycled PET





## STANDARD DIMENSIONS AND TYPES

### A. POLYSOUND CEILING TILES

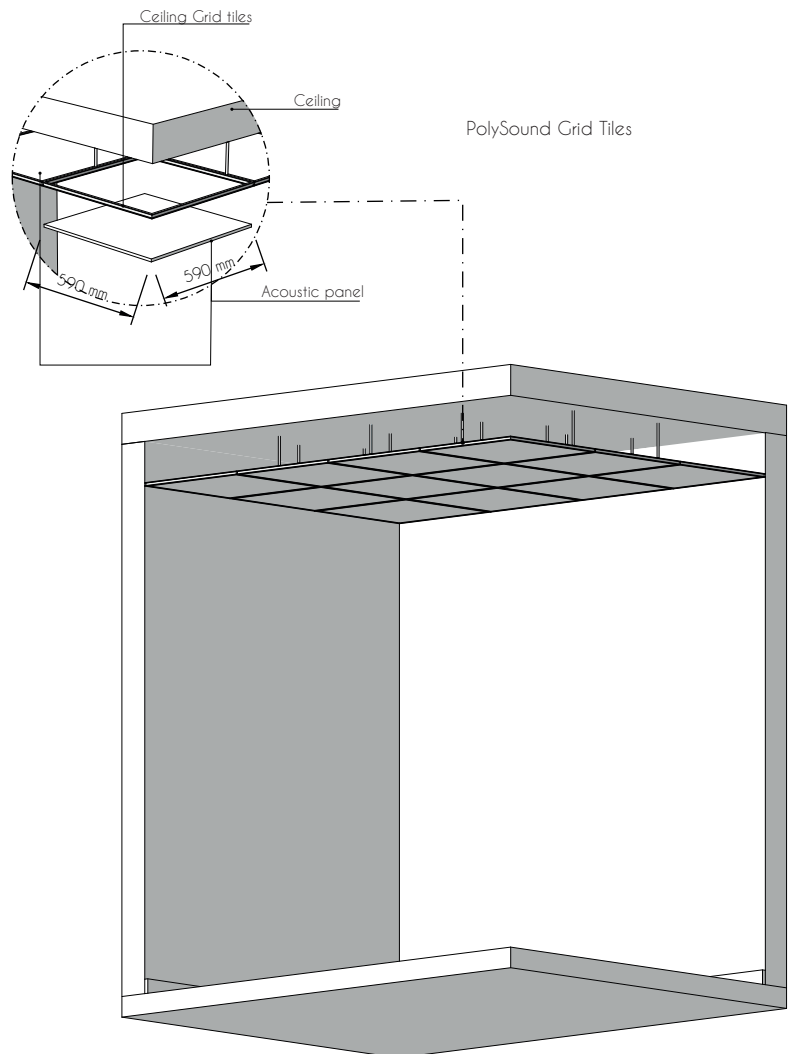
These fabric tiles could replace conventional ceiling tiles and provide significant acoustic effect with the desired aesthetics, in a very convenient, quick and easy way. The replacement could be conducted, without affecting/destroying the current ceiling T-grid and the variety in colour offers a pleasant choice diversity in consultants' and client's willing and ideas. The time of replacement of this type of acoustic system could be considered the minimum possible, amongst the majority of acoustic systems.

**Tiles**

590x590mm

**Thickness**

12mm







## STANDARD DIMENSIONS AND TYPES

### B. POLYSOUND TILES

#### Hexagon or Diamond

These tiles of two different shapes, hexagon and diamond ones, provide significant acoustic effect with the desired aesthetics, in a seamless-continuous run (finish) of panelling, into walls. These panels could be manufactured in three different thicknesses, according to acoustic need of the project and space limitations. The variety in colour offers a pleasant choice diversity in consultants' and client's willing and ideas.

**Diameter (Hexagon)**

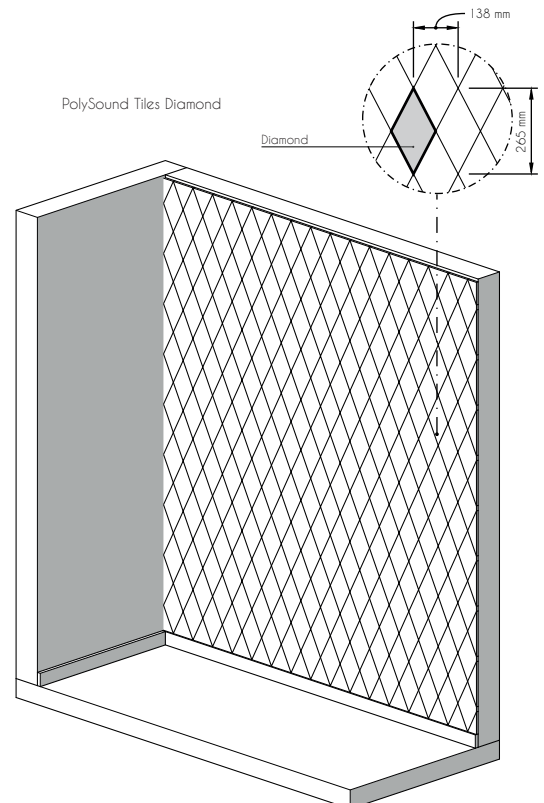
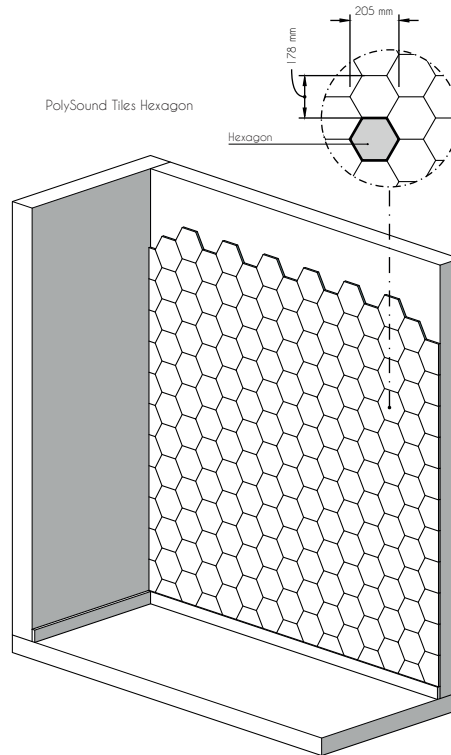
205mm

**Diameter (Diamond)**

138x265mm

**Thickness**

9mm or 12mm or 24mm





## STANDARD DIMENSIONS AND TYPES

### C. POLYSOUND ENGRAVE

These tiles of two different dimensions/types, Wide 15 – Narrow 10, provide significant acoustic effect with the desired aesthetics, in a seamless-continuous run (finish) of panelling, into walls/ceilings. These panels could be manufactured in two different thicknesses, according to acoustic need of the project and space limitations. The variety in colour offers a pleasant choice diversity in consultants' and client's willing and ideas.

#### Panel

2400x600mm

#### Shape characteristics

Wide 15

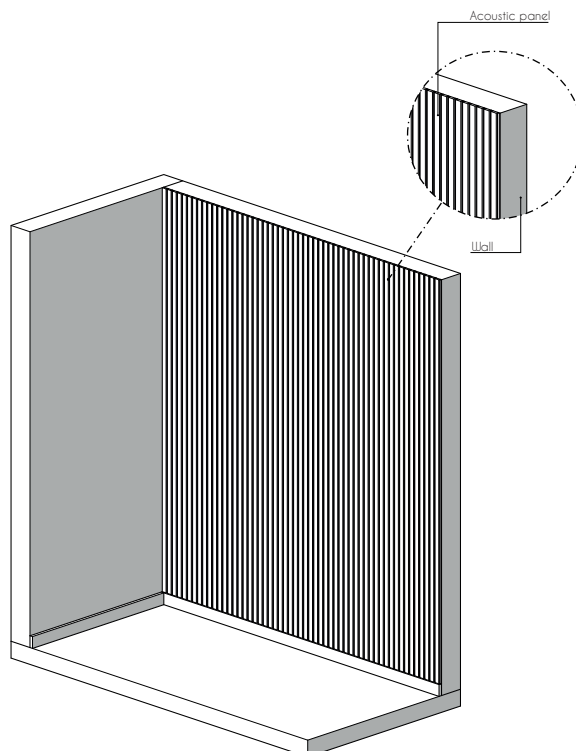
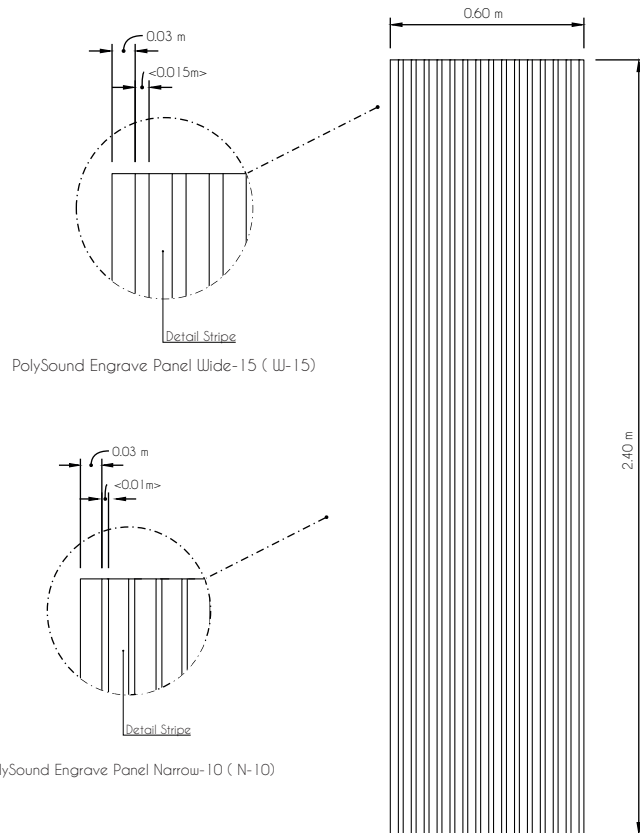
25mm solid – 15mm engrave

Narrow 10

30mm solid – 10mm engrave

#### Thickness

12mm or 24mm





## STANDARD DIMENSIONS AND TYPES

### D. POLYSOUND ABSTRACT

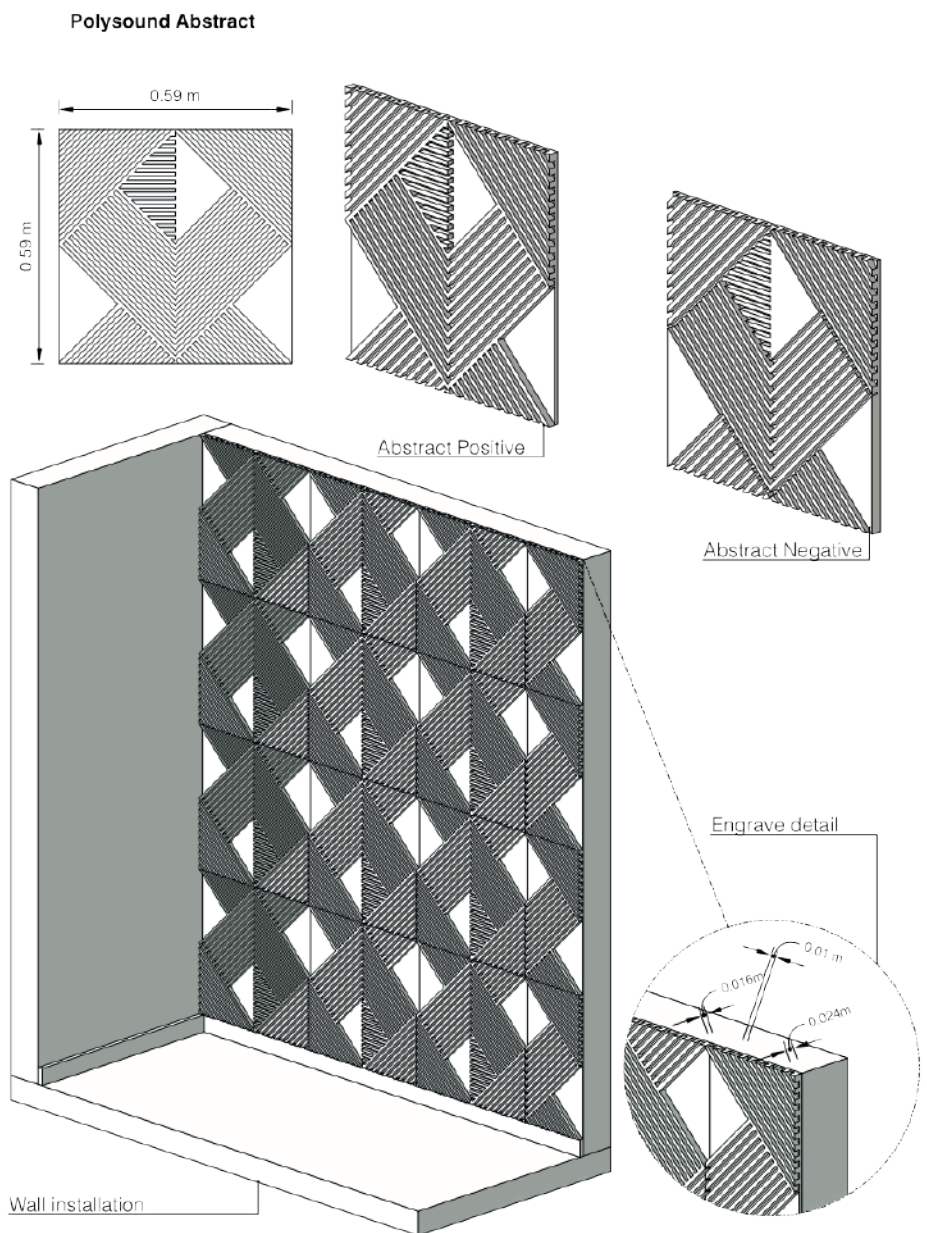
Our special type of the POLYSOUND family, provide significant acoustic effect with the desired aesthetics, in a seamless-continuous run (finish) of panelling, into walls/ceilings. Its characteristic engraved manufacturing concludes a tasteful and artistic result. The variety in colour offers a pleasant choice diversity in consultants' and client's willing and ideas.

**Tiles**

590x590mm

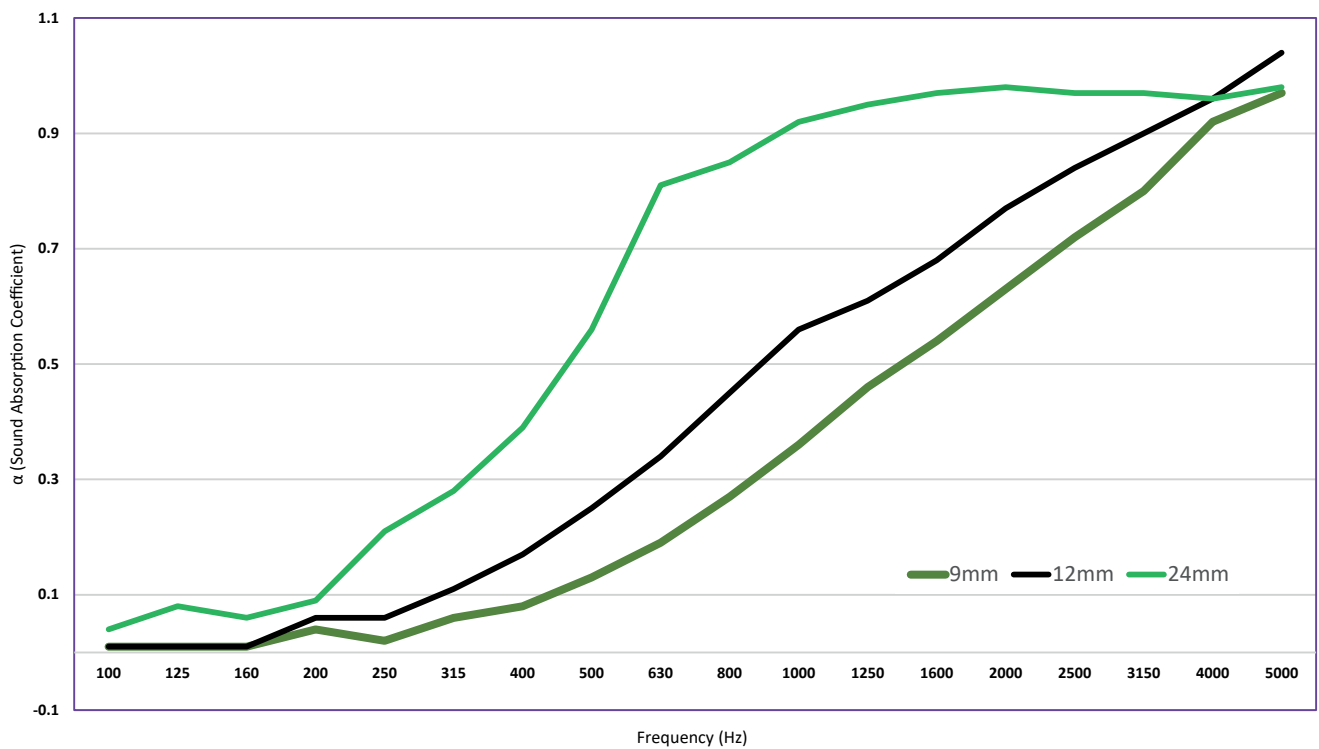
**Thickness**

24mm



**SOUND  
ABSORPTION**

Absorption coefficient measurements



**Polysound 9mm**

Sound class E ( $a_w=0.25$ )  
[according to ISO 354:2003  
& ISO 11654:1997]

**Polysound 12mm**

Sound class D ( $a_w=0.30$ )  
[according to ISO 354:2003  
& ISO 11654:1997]

**Polysound 24mm**

Sound class C ( $a_w=0.61$ )  
[according to ISO 354:2003  
& ISO 11654:1997]

**SOUND  
ABSORPTION**

Frequency	αs					
(Hz)	9mm		12mm		24mm	
100	0.01		0.01		0.04	
125	0.01	0.01	0.01	0.01	0.08	0.06
160	0.01		0.01		0.06	
200	0.04		0.06		0.09	
250	0.02	0.04	0.06	0.08	0.21	0.19
315	0.06		0.11		0.28	
400	0.08		0.17		0.39	
500	0.13	0.13	0.25	0.25	0.56	0.59
630	0.19		0.34		0.81	
800	0.27		0.45		0.85	
1000	0.36	0.36	0.56	0.54	0.92	0.91
1250	0.46		0.61		0.95	
1600	0.54		0.68		0.97	
2000	0.63	0.63	0.77	0.76	0.98	0.97
2500	0.72		0.84		0.97	
3150	0.8		0.9		0.97	
4000	0.92	0.90	0.96	0.97	0.96	0.97
5000	0.97		1.04		0.98	



**Euro**phon<sub>Acoustics</sub>

**PolySound**  
SYSTEM

**Euro**phon<sub>Acoustics</sub>

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