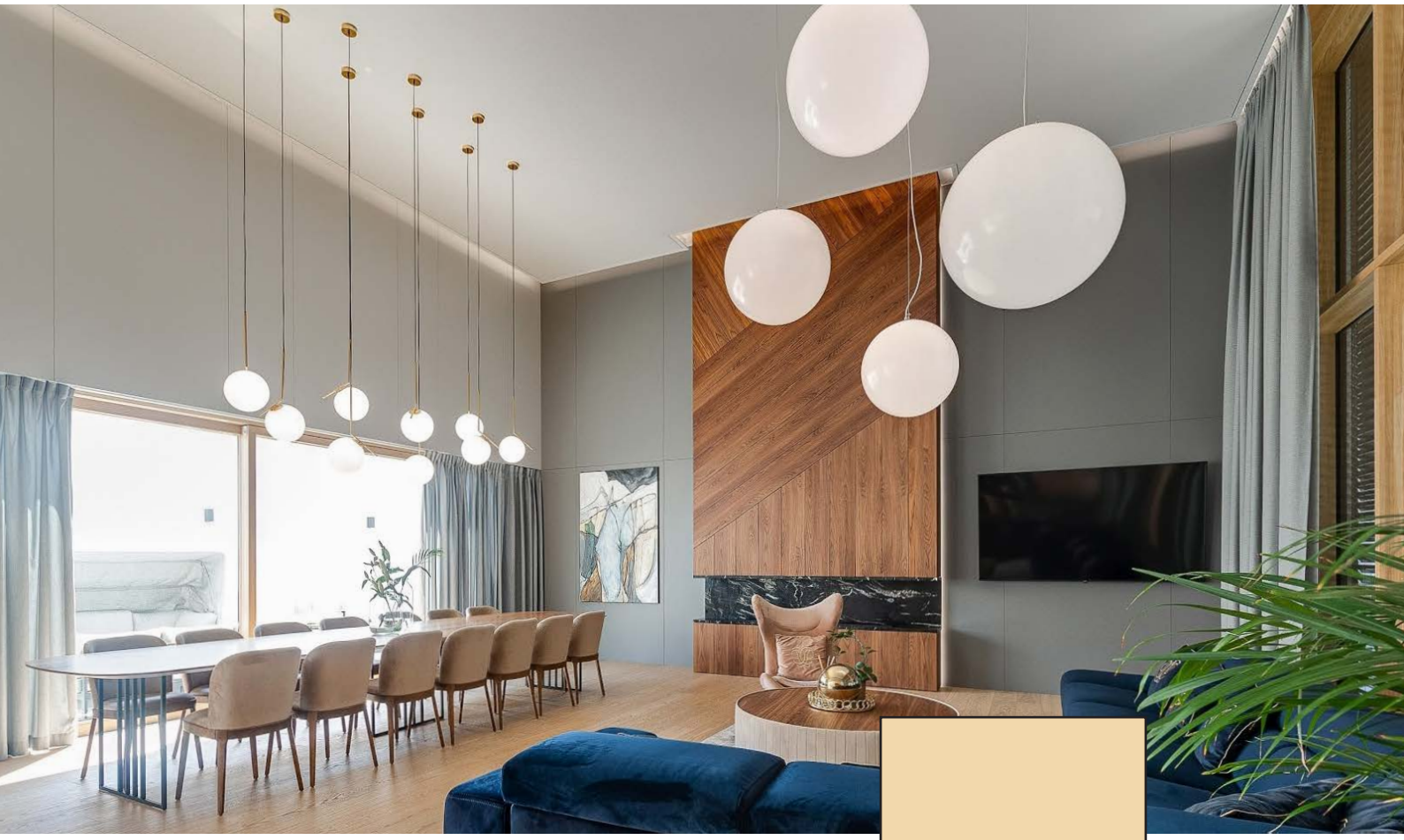
stretch ceilings

acoustic solutions

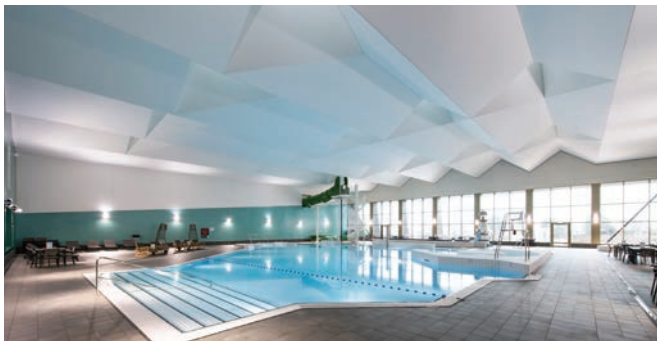
panels
ceilings
walls



DPS acoustic
FONOSORBER

Acoustic properties of FONOSORBER® solutions

FONOSORBER® is an independent solution joining DPS® stretch ceiling with an appropriate sound absorbing material. As a result of long research we came up with a product of acoustic "A" class. FONOSORBER® suppresses sounds of wide frequency and thus significantly improves acoustic parameters of the interior.



ACOUSTIC CEILINGS
are the easiest way to improve interior acoustics. Additionally, acoustic ceilings and walls have many aesthetic and functional advantages, e.g.: lightness of construction, thermo-insulation, endless number of designs and shapes, possibility of lighting, print or mirror reflection.

ACOUSTIC WALLS
recording studio, cinema, home multimedia center or auditorium lecture - these are just some of the places where acoustic walls can be used. Proven acoustic systems in combination with Trendero textiles reduce reverberation and at the same time are an interesting element of interior finishing.

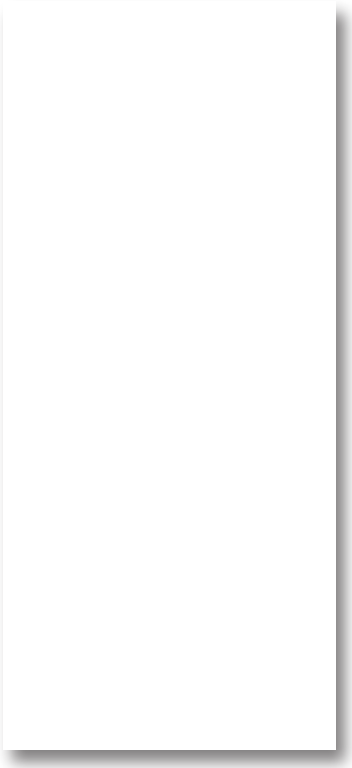
ACOUSTIC PANELS
small or large in size aim at improving acoustics of the interior (e.g. above the work post or rest area). They may be used as single constructions or compositions attached to different surfaces.

ACOUSTIC LIGHTING PANELS
are an innovative solution incorporating functionality, aesthetics and enhancement to any room or area. DPS® Acoustic-light systems utilising FONOSORBER® and DPS® profiles allow for simultaneous lighting and soundproofing of a room.

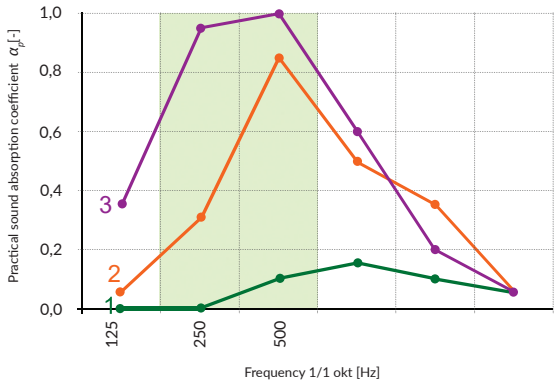
ACOUSTIC PARTITION WALLS
for interiors (e.g. open spaces), where acoustic insulation is necessary for the comfort and enjoyment of the people occupying the space. Together with DPS® acoustic light panels they create space of a high acoustic comfort.

Acoustic properties of FONOSORBER® solutions

UNPERFORATED MEMBRANE



	α_p		
f [Hz]	1	2	3
125	0,00	0,05	0,35
250	0,00	0,30	0,95
500	0,10	0,85	1,00
1000	0,15	0,50	0,60
2000	0,10	0,35	0,20
4000	0,05	0,05	0,05
α_w	0,15	0,25	0,20
NRC	0,10	0,50	0,70
absorption class	E	E(M)	E(L;M)



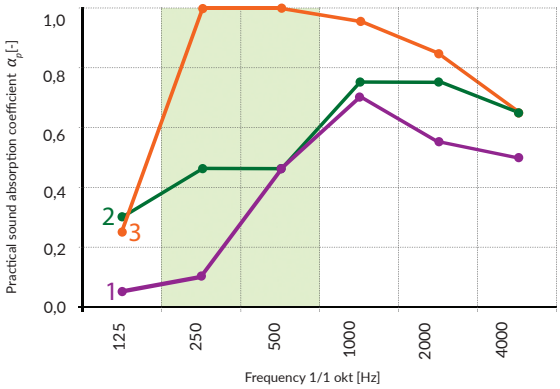
ACOUSTIC SYSTEM 1
DPS unperforated membrane on 40mm air gap

ACOUSTIC SYSTEM 2
DPS unperforated membrane on 15mm air gap, 25 mm Stratocell Whisper®

ACOUSTIC SYSTEM 3
DPS unperforated membrane on 10mm air gap, 50 mm mineral wool (density 50 kg/m³)

MICROPERFORATED MEMBRANE Φ 0,15 mm (300000 holes/sqm)

	α_p		
f [Hz]	1	2	3
125	0,05	0,30	0,25
250	0,10	0,45	1,00
500	0,45	0,45	1,00
1000	0,70	0,75	0,95
2000	0,55	0,75	0,85
4000	0,50	0,65	0,65
α_w	0,40	0,55	0,85
NRC	0,45	0,60	1,00
absorption class	D	D	B



ACOUSTIC SYSTEM 1
DPS microperforated membrane fi 0,15 mm

ACOUSTIC SYSTEM 2
double DPS microperforated membrane fi 0,15 mm with the distance of 54mm between PVC layers

ACOUSTIC SYSTEM 3
DPS microperforated membrane fi 0,15 mm on 30mm air gap with a layer of 50mm thick mineral wool (density 37 kg/m3)

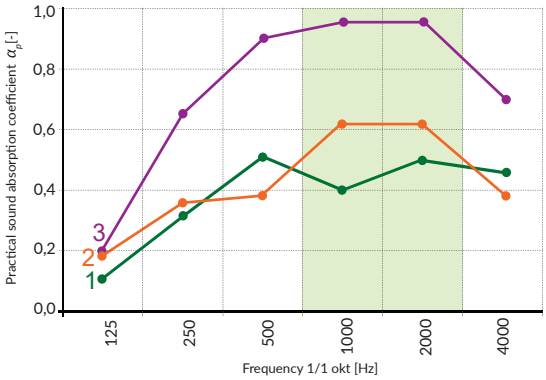
f [Hz] - sound frequency

α_p - practical sound absorption coefficient according to PN-EN ISO 11654:1999

Acoustic properties of FONOSORBER® solutions

MICROPERFORATED MEMBRANE Φ 0,3 mm (250000 holes/sqm)

	α_p		
f [Hz]	1	2	3
125	0,13	0,19	0,20
250	0,33	0,35	0,65
500	0,55	0,39	0,90
1000	0,40	0,61	0,95
2000	0,48	0,61	0,95
4000	0,43	0,39	0,70
α_w	0,50	0,90	0,85
NRC	0,45	0,50	0,85
absorption class	D	D	B



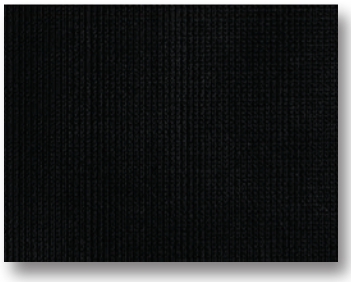
ACOUSTIC SYSTEM 1
DPS microperforated membrane on 200mm air gap

ACOUSTIC SYSTEM 2
double DPS microperforated membrane fi 0,3 mm on 50mm air gap

ACOUSTIC SYSTEM 3
DPS microperforated membrane fi 0,3mm with a layer of 50mm thick mineral wool (density 37 kg/m3) on 10mm and 20mm air gaps between the layers

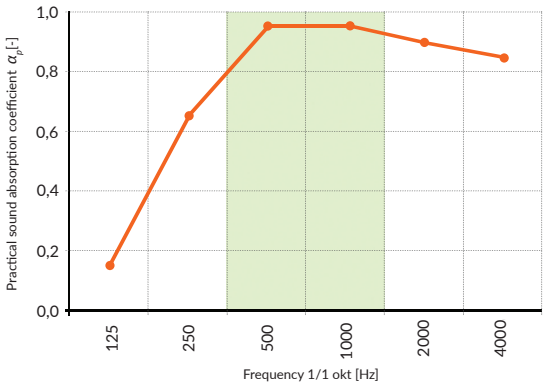
TEXTILE TR 085 CLASSIC VOICE / TR 086 BLACK VOICE

TR 085 CLASSIC VOICE



TR 085 CLASSIC VOICE

f [Hz]	α_p
125	0,15
250	0,65
500	0,95
1000	0,95
2000	0,90
4000	0,85
α_w	0,90
absorption class	A

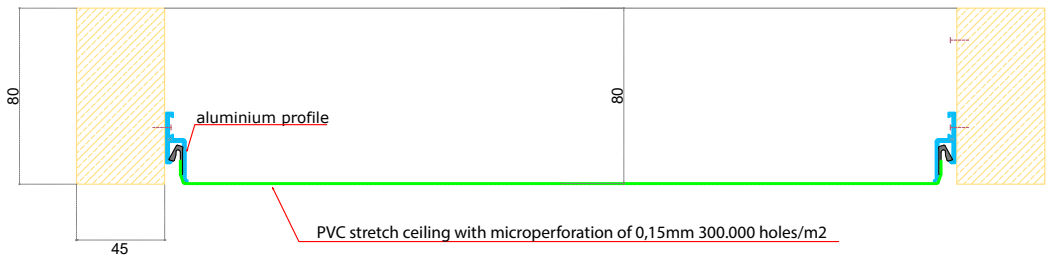


ACOUSTIC SYSTEM
DPS textile membrane TR085/TR086 with the layer of 40mm thick mineral wool Isover SSP2 and 50mm air gap

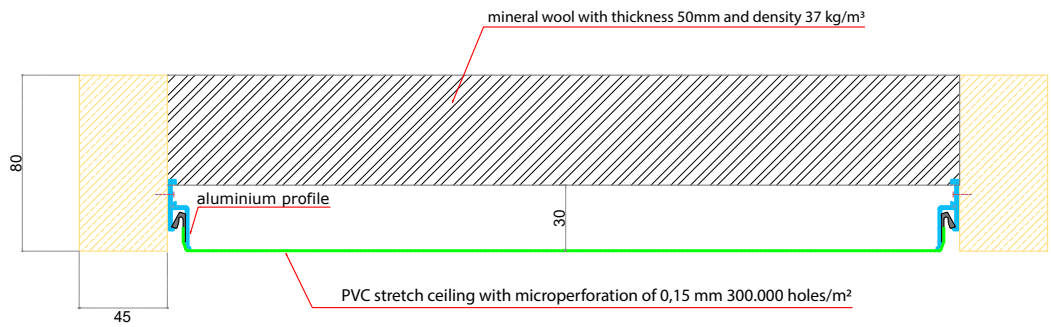
α_w - weighted sound absorption coefficient according to PN-EN ISO 11654:1999 **NRC** - noise reduction coefficient

Examples of FONOSORBER® acoustic systems

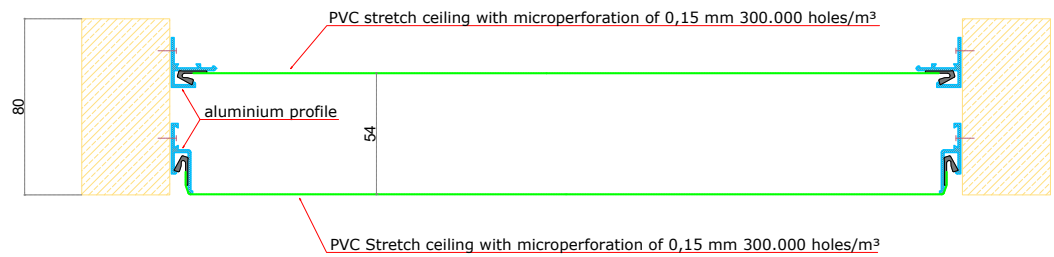
ACOUSTIC SYSTEM
using DPS membrane with acoustic microperforation fi 0,15 mm



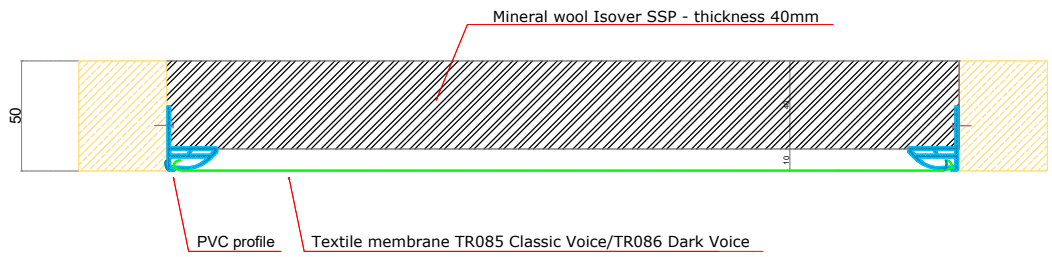
ACOUSTIC SYSTEM
using DPS membrane with acoustic microperforation fi 0,15 mm and 50mm thick mineral wool



ACOUSTIC SYSTEM
using 2 DPS membranes with acoustic microperforation



ACOUSTIC SYSTEM
using Trendero textile TR085 Classic Voice / TR086 Dark Voice and 40mm thick mineral wool



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