

— PLAFOMETAL —

METAL ACOUSTIC CLOSED CEILINGS AND ISLANDS

2026 EDITION

**ALPHA
ALPHA PLUS
DECIBEL**

Performance
enhanced



α_w up to 1
 $D_{n,f,w}$ up to 52 dB



Complete system
supplied



Wide choice of
configurations

PLAFOMETAL



Fully express your architectural creativity!



A specialist in the design of metal ceilings, Plafometal offers a range of solutions able to meet all layout projects, including the most creative ones. Offices, hospitals, stations, shopping centers... every project is unique. Whether it is a standard or custom solution, our design office supports you throughout the project to guide your technical choices regarding ceilings and suspended islands.

Our systems are manufactured and assembled at a single site in France, a real advantage: this ensures both proximity to our contacts, better responsiveness on site, and optimized logistics.

Metal, a material full of resources

A noble and durable material, metal has proven its remarkable ability to adapt to every design vision, even the boldest. Recognizable at a glance, metal enhances the building with a decidedly modern, high-end character. Another advantage: its robustness. Its robustness means that maintenance operations in the ceiling plenum are no longer a constraint. The panels can be removed repeatedly without any damage.



OUTSTANDING ENVIRONMENTAL PERFORMANCE

Made from steel or aluminum, Plafometal ceilings provide a concrete, durable response to the environmental challenges faced by building professionals and their clients. As part of this responsible approach, verified FDES (French Environmental and Health Declarations) are available on the national INIES database (www.inies.fr).

Steel is today the most recycled material in the world and has some of the most efficient recycling streams (no landfill disposal costs; it is 100% recyclable without altering its properties...)



The Plafometal acoustic ceiling range is covered (including insulation) by verified FDES.



Control noise to improve acoustic comfort

Rethink preconceived ideas about acoustics!

Plafometal has harnessed the natural properties of metal and optimized them to make the ceiling a true architectural element with high acoustic performance.

To give metal its acoustic properties, the panels must be perforated to allow sound waves to pass through. Common sense would suggest that the more numerous and larger the perforations, the better the absorption.

It is a common misconception: the open area ratios typically used have little effect on absorption. The choice of perforation pattern is therefore primarily an aesthetic choice.

The new range of acoustic metal ceilings has been designed to address all acoustic comfort requirements by controlling the propagation of sound waves.

The ceiling is the free surface best suited to acoustic treatment.

As the ceiling is generally the largest free surface in a room, it plays a primary role in treating sound reverberation. This explains why its ability to absorb sound waves is essential when seeking acoustic comfort.

A good acoustic environment makes a space more comfortable and more conducive to calm, work, and healing...



More than 50%

of employees report being regularly disturbed by noise.



35 to 55 dB(A)

is the recommended sound level in offices, depending on use.



Up to 15%

loss of productivity caused by noise in open-plan offices.



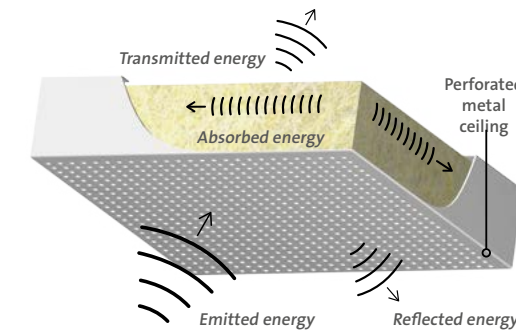
Only 30%

of employees are satisfied with the acoustic comfort of their office.

Improving acoustics directly enhances well-being, concentration and team efficiency.

Better understand the rules of acoustics

Absorption



sound reflection).

The sound absorption of a suspended ceiling is defined by its ability to reduce sound energy by absorbing it totally or partially (this is referred to as a reduction in reverberation time).

Sound absorption is assessed using the Sabine Alpha coefficient (α_s), calculated by frequency bands according to EN ISO 354, resulting in a single α_w (EN ISO 11654) or NRC (ASTM C423) for comparing acoustic performance from 0 (no absorption and therefore high reverberation) to 1 (total absorption with no

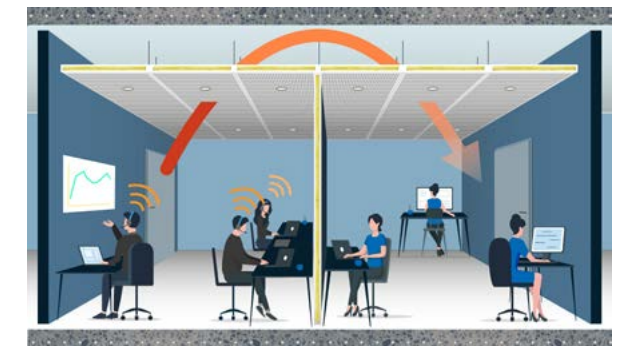
PLAFOMETAL metal ceilings are made of materials that have the property of absorbing sound energy. They improve the acoustic comfort of a room by reducing wave reflection.



Equivalent sound absorption area (Aeq)

The Aeq (m^2 sabin) expresses the sound absorption capacity of an acoustic element (island, baffle). It corresponds to the equivalent surface area of a perfectly absorbing material ($\alpha_w = 1$) that would provide the same performance. Unlike a continuous ceiling that only absorbs through its visible face, these open solutions capture sound on all their faces and sides, thus increasing their efficiency. Measured in the laboratory according to EN ISO 354, Aeq objectively evaluates acoustic performance.

PLAFOMETAL islands and baffles provide an equivalent sound absorption area that ensures a significant reduction in reverberation and improved acoustic comfort.



Lateral attenuation

The lateral attenuation of a suspended ceiling is defined by its ability to reduce the propagation of sound waves between adjacent rooms sharing the same ceiling plenum (a common construction type in commercial buildings). Their performance is expressed by a standardized sound insulation index $D_{n,f,w}$ in decibels.

PLAFOMETAL offers a range of metal ceilings specially designed to provide high lateral attenuation performance, in addition to sound absorption.

Sound is a vibration that propagates in the form of a spherical wave. When it encounters an obstacle, it is either absorbed by it or reflected. In the latter case, it can mix with other waves and create a sense of noise that causes discomfort.

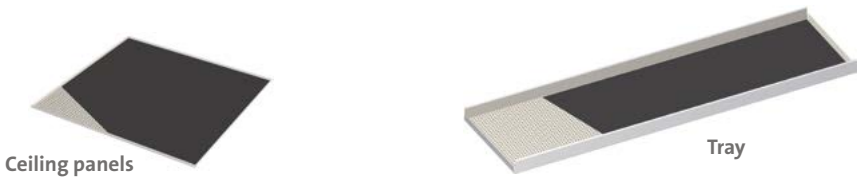


Performance technical and acoustic

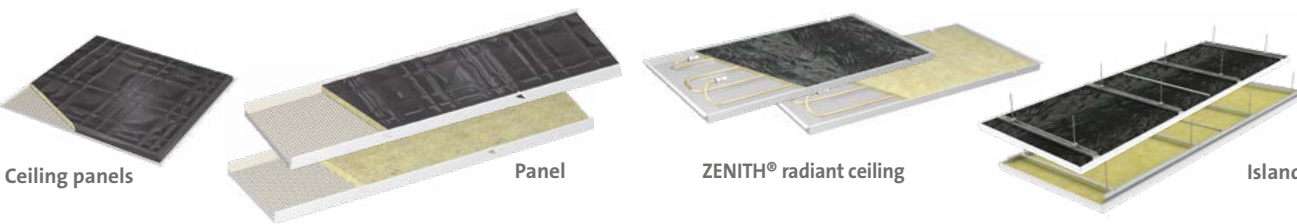
With its experience in suspended ceilings, PLAFOMETAL places innovation at the heart of its approach. Furthermore, to ensure maximum performance, PLAFOMETAL products are systematically evaluated by the Scientific and Technical Center for Building (CSTB). All tests were carried out in a certified, independent laboratory over a short period and under similar conditions to ensure consistent results. More than 300 measurements have been carried out since 2014, helping to improve the range and develop new solutions.

A complete range to meet every need

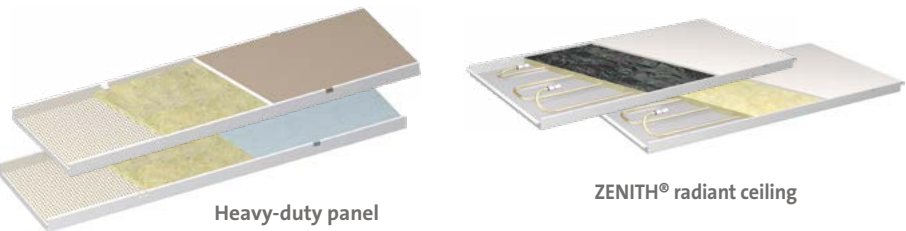
■ **ALPHA + FOR INTELLIGIBILITY** Ceiling panels or panels fitted with a new-generation thermally bonded veil for a sound absorption coefficient α_w up to 0.85.



■ **ALPHA PLUS + FOR ACOUSTIC COMFORT** Ceiling panels, panels, or islands fitted with high-density bagged or faced mineral wool for a sound absorption coefficient α_w up to 1 or a significant equivalent absorption area (Aeq), with a ratio of m² sabin per m² of product up to 1.8 in speech frequencies with the option of incorporating the absorption area into radiant ceilings.



■ **DECIBEL + FOR CONFIDENTIALITY** Panels filled with mineral wool and a rear cover for lateral sound insulation $D_{n,f,w}$ up to 52 dB and a sound absorption coefficient α_w up to 0.75 with the option of incorporating the absorption area into radiant ceilings.





ALPHA offer

+ speech intelligibility

The advantages:

- Exclusive sound absorption: α_w up to 0.85
- Easy handling: lightweight and easy to cut
- All-in-one ceiling, ready to install

The best solution for all circulation areas

Because access to the ceiling plenum is frequent, ALPHA ceiling panels are particularly sturdy and easy to handle during technical work. Circulation areas, as their name suggests, are transitional spaces. Unlike an office or meeting room where comfort is a priority, the need for acoustic treatment here is lower. Class B sound absorption is therefore more than sufficient to achieve a very good level of acoustic performance.

- Available in ceiling panels, free-span ceiling panels, and swing-down panels
- 10 perforation patterns

Acoustic performance according to configurations:

Below you will find the α_w absorption coefficients depending on the products and their perforation patterns.

		Class C		Class B		Class A	
		α_w	0,75	0,80	0,85	0,90	0,95 1,00
Ceiling panels							
	H0 H2		22% $\phi 1,5$	10% $\phi 2,5$			
	H8 H9		46% 5,5x5,5	11% $\phi 1,5$			
	MONOBAC			12% $\phi 2,5$			
	MONOBAC SF		22% $\phi 1,5$	16% $\phi 2,5$	23% $\phi 2,5$		
Free-span ceiling panels							
	PM12			10% $\phi 2,5$			
	PM10			11% $\phi 1,5$			
	PM3		22% $\phi 1,5$	12% $\phi 2,5$	18% IRR		
	PM4			16% $\phi 2,5$	20% 61x4 ⁽¹⁾		
	PM2 Horus			23% $\phi 2,5$			
	PM8 SF ⁽²⁾			40% 61x4 ⁽¹⁾			
Linear panels							
	PM300		22% $\phi 1,5$	10% $\phi 2,5$	11% $\phi 1,5$		
				23% $\phi 2,5$			
Swing-down panels							
	ORIAL			10% $\phi 2,5$			
	Aries			11% $\phi 1,5$			
	Axess		22% $\phi 1,5$	12% $\phi 2,5$	18% IRR		
	TRANSLABAC			16% $\phi 2,5$	20% 61x4		
				23% $\phi 2,5$			
	ORIAL SF			40% 61x4			
				10% $\phi 2,5$			
				11% $\phi 1,5$			

⁽¹⁾ Perforations available only on PM2 and Horus; not compatible with SF (fire-stable) versions

⁽²⁾ Perforation available except on SF (fire-stable) panels

Other perforation patterns are available on request; details of absorption by frequency band μ (α_p) are available in the summary table on page 19. For more details on the products, please refer to the PLAFOMETAL catalog.

THE TECHNICAL DATA SHEETS ARE AVAILABLE AT WWW.PLAFOMETAL.COM

ALPHA PLUS offer

+

acoustic comfort

The advantages:

- Optimal Class A sound absorption, α_w up to 1.00
- High equivalent sound absorption area (Aeq) for islands, with a ratio of m² sabin per m² of product up to 1.8 in speech frequencies
- Robust and durable
- All-in-one ceiling

Peace of mind in the broadest sense in offices, classrooms...

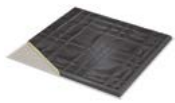
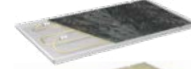
The ALPHA PLUS offer is perfectly suited to spaces where speech intelligibility is important. It is difficult to have a quality phone conversation when a colleague sitting opposite is also talking... ALPHA PLUS is PLAFOMETAL's solution for optimal acoustic comfort.

- A flexible range for all projects (standard ceiling panels, free-span ceiling panels, swing-down panels, ceiling islands, custom design...)
- 6 types of perforation
- 2 types of specific sound absorption filling
- Reversible radiant ceiling possible
- Ceilings ready-to-install or in kit form depending on models
- All ready-to-install ceilings have the filling mechanically secured inside the panels: dismantling and handling are simple and do not risk damaging the products.



Acoustic performance according to configurations:

Below you will find the sound absorption coefficients α_w depending on the products, their perforation patterns, and their types of filling.

	Class C		Class B		Class A		
	α_w	0,75	0,80	0,85	0,90	0,95	1,00
Ceiling panels  H0* H2* H8* H9* MONOBAC* MONOBAC SF*					10% $\phi 2,5$	16% $\phi 2,5$	11% $\phi 1,5$ 22% $\phi 1,5$ 23% $\phi 2,5$
Free-span ceiling panels  PM12** PM10** PM2** Horus**  PM3* PM4* PM8 SF**					10% $\phi 2,5$ 18% IRR	16% $\phi 2,5$	10% $\phi 2,5$ 11% $\phi 1,5$ 16% $\phi 2,5$ 22% $\phi 1,5$ 23% $\phi 2,5$ 18% IRR 11% $\phi 1,5$ 22% $\phi 1,5$ 23% $\phi 2,5$
Swing-down panels  ORIAL** Aries** Axess** TRANSLABAC** 					10% $\phi 2,5$ 18% IRR	16% $\phi 2,5$	10% $\phi 2,5$ 11% $\phi 1,5$ 16% $\phi 2,5$ 22% $\phi 1,5$ 23% $\phi 2,5$ 18% IRR
Linear panels  PM300					10% $\phi 2,5$		11% $\phi 1,5$ 22% $\phi 1,5$ 23% $\phi 2,5$ 10% $\phi 2,5$ 11% $\phi 1,5$ 22% $\phi 1,5$ 23% $\phi 2,5$
Islands  STEEL B islands STEEL F islands							11% $\phi 1,5$ 22% $\phi 1,5$ 11% $\phi 1,5$ 22% $\phi 1,5$
ZENITH® Ceilings and islands Reversible radiant ceilings  							11% $\phi 1,5$ 16% $\phi 2,5$ 22% $\phi 1,5$ 16% $\phi 2,5$ 22% $\phi 1,5$

* Ceiling supplied as a kit
** Ceiling delivered ready to install

 Specific faced insulation

 Specific encapsulated insulation



The expanded metal MESH has a sound absorption coefficient α_w of 1, as its open area ratio systematically exceeds 33%, which is higher than that of a perforated sheet at 23%.

The details of absorption by frequency band (α_p) are available in the summary table on page 19. For the islands, the equivalent absorption areas (Aeq) are indicated in the table on page 21. For more details on the products, please refer to the PLAFOMETAL catalog.

THE TECHNICAL DATA SHEETS ARE AVAILABLE AT WWW.PLAFOMETAL.COM



DECIBEL offer

+ confidentiality

The advantages:

- Optimal lateral attenuation: $D_{n,f,w}$ up to 52 dB
- High partitioning flexibility
- All-in-one ceiling, ready to install

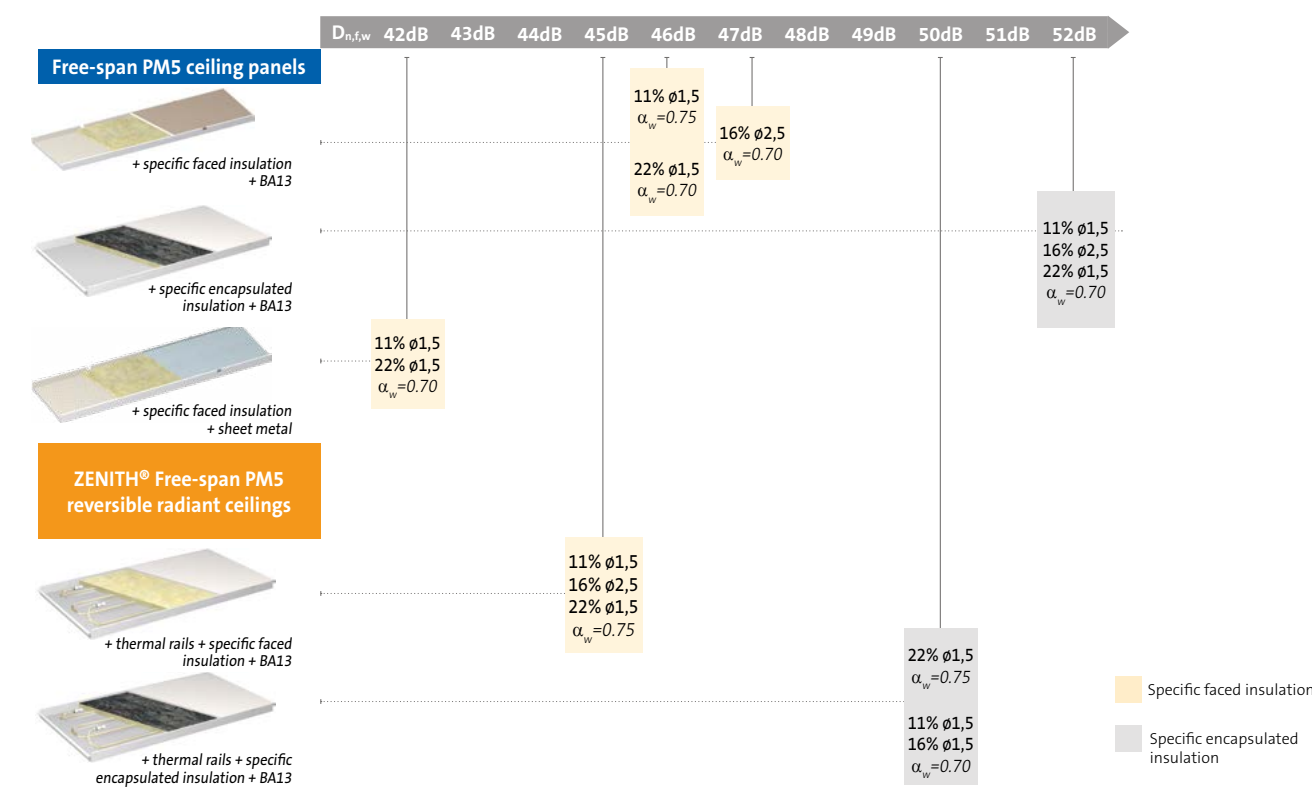
Guaranteed confidentiality between partitioned offices

The combination of sound absorption and lateral attenuation performance of the DECIBEL offer is highly effective in ensuring confidentiality in partitioned offices sharing the same ceiling plenum. It is also the ideal solution for office floors with demountable partitions. The rails are designed to accommodate all types of partitions as the company layout evolves.

- One highly customizable range of free-span ceiling panels
- 3 perforation patterns
- 2 types of specific acoustic infill
- 2 types of attenuation covers (BA13 or sheet metal)
- Reversible radiant ceiling possible

Acoustic performance according to configurations:

Below you will find the lateral attenuation indices $D_{n,f,w}$ and the sound absorption coefficients α_w depending on the selected solution (type of filling, perforation, activation)



The lateral attenuation indices $D_{n,f,w}$ (C;Ctr) and the details of absorption by frequency band (α_p) are available in the summary table on page 19. For more details on the products, please refer to the PLAFOMETAL catalog.

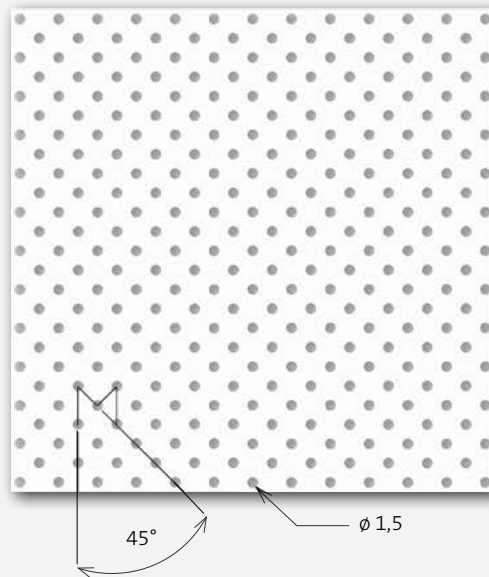
THE TECHNICAL DATA SHEETS ARE AVAILABLE AT WWW.PLAFOMETAL.COM

A range aesthetic and acoustic

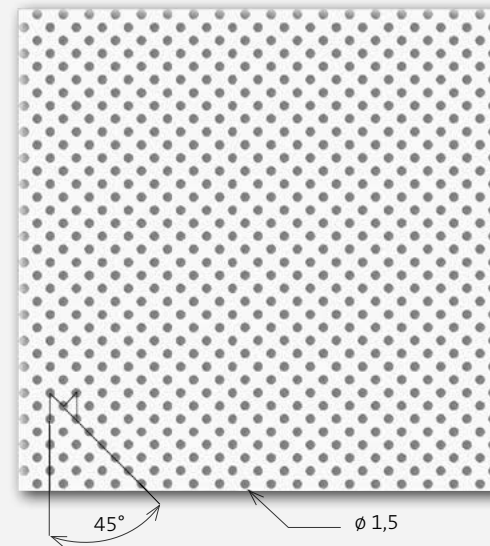
The perforation contributes to the acoustics of the metal ceiling.
PLAFOMETAL offers a wide choice of perforation patterns to vary the ceiling aesthetics.

PERFORATION AVAILABLE FOR ISLANDS AND CLOSED CEILINGS

11% ϕ 1,5³
M arrangement

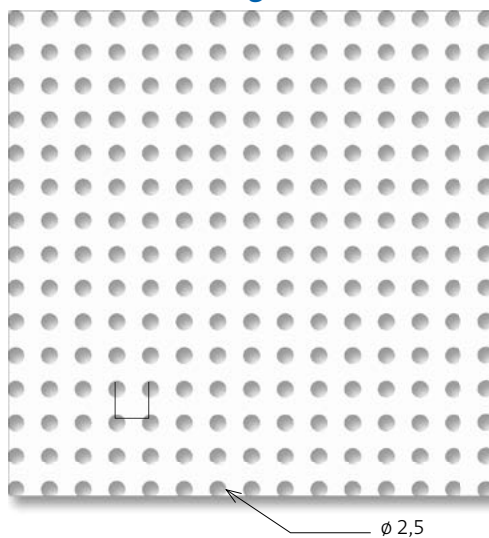


22% ϕ 1,5³
M arrangement

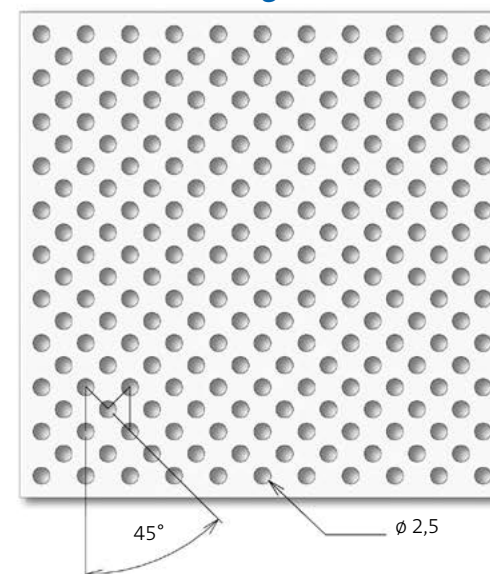


PERFORATION AVAILABLE ONLY FOR CLOSED CEILINGS

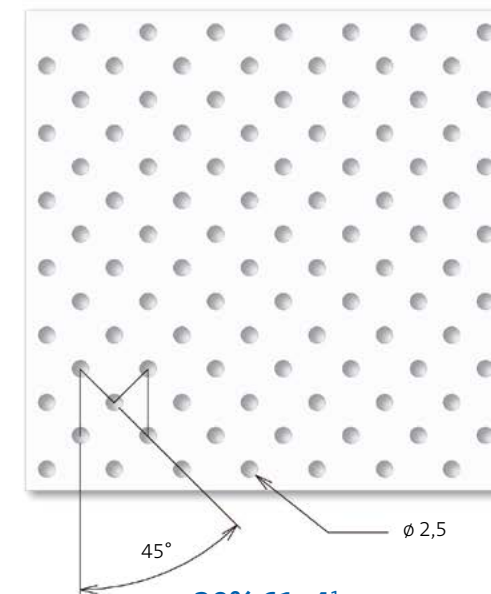
16% ϕ 2,5³
U arrangement



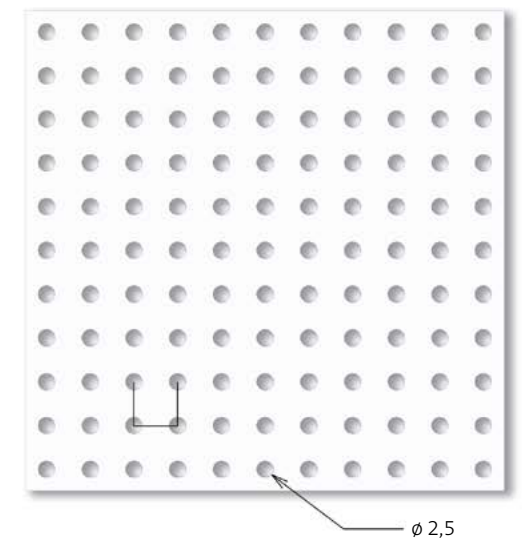
23% ϕ 2,5²
M arrangement



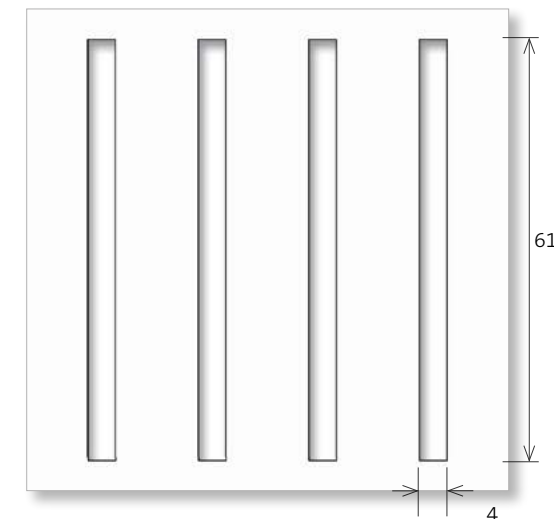
10% ϕ 2,5²
M arrangement



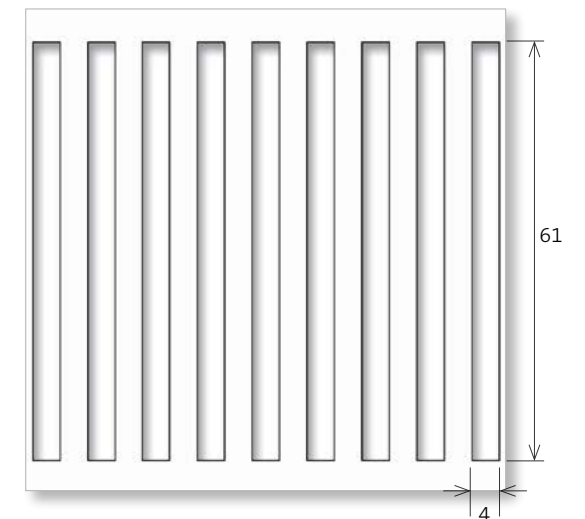
12% ϕ 2,5¹
U arrangement



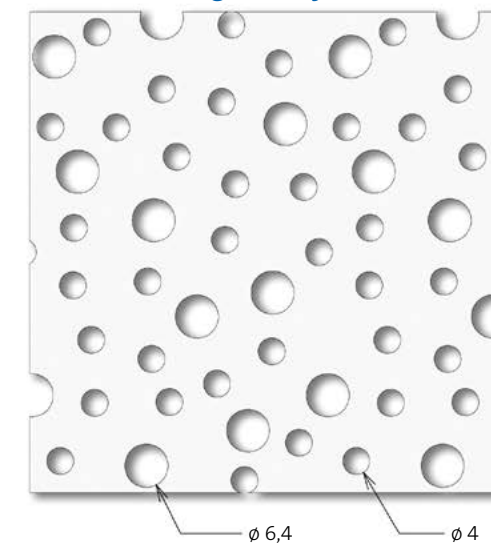
20% 61x4¹
U arrangement



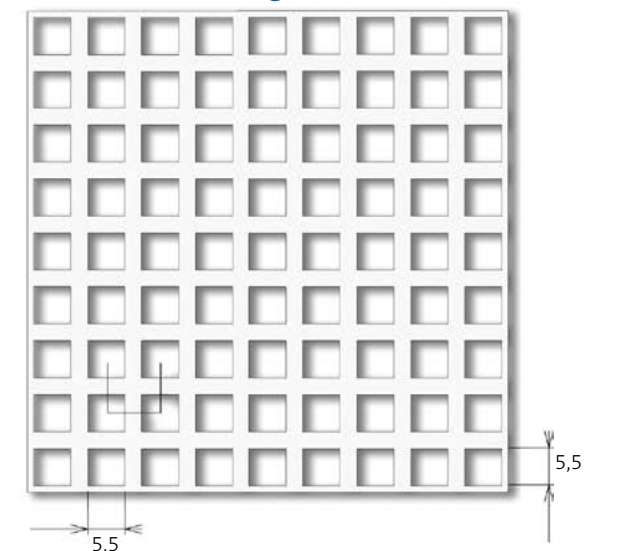
40% 61x4¹
U arrangement



18% IRR²
Irregular layout



46% 5,5x5,5¹
U arrangement



¹laboratory tested for the ALPHA range ²laboratory tested for the ALPHA and ALPHA PLUS ranges

³laboratory tested for the ALPHA, ALPHA PLUS, and DECIBEL ranges

Acoustic comfort

Closed suspended ceilings

				SOUND ABSORPTION								LATERAL SOUND INSULATION		
Systems	Acoustic range	Perforation	Configuration	α_w	NRC	α_p - Frequency Hz by octave bands						$D_{n,f,w}$ (C;Ctr)	$D_{n,f,w} + C$	$D_{n,f,w} + Ctr$
						125	250	500	1000	2000	4000			
PLAFOMETAL THE ACOUSTIC METAL CEILING	ALPHA α_w up to 0.85	10% Ø2,5 mm	Specific veil	0,80	0.80	0,50	0,80	0,95	0,75	0,75	0,70	-	-	-
		12% Ø2,5 mm	Specific veil	0,80	0.80	0,45	0,80	0,95	0,75	0,80	0,75	-	-	-
		16% Ø2,5 mm	Specific veil	0.80(L)	0.80	0,50	0,85	0,95	0,75	0,80	0,80	-	-	-
		23% Ø2,5 mm	Specific veil	0,80	0.80	0,35	0,75	0,95	0,75	0,80	0,75	-	-	-
		11% Ø1,5 mm	Specific veil	0,80	0.80	0,40	0,80	0,95	0,75	0,75	0,70	-	-	-
		22% Ø1,5 mm	Specific veil	0,75	0.75	0,30	0,75	0,90	0,70	0,75	0,75	-	-	-
		18% IRR	Specific veil	0.85(L)	0.85	0,45	0,90	0,95	0,80	0,80	0,80	-	-	-
		11% 61x4 mm	Specific veil	0.70(L)	0.70	0,50	0,75	0,85	0,70	0,65	0,55	-	-	-
		20% 61x4 mm	Specific veil	0.85(L)	0.85	0,45	0,90	1,00	0,80	0,80	0,75	-	-	-
		40% 61x4 mm	Specific veil	0.80(L)	0.80	0,40	0,85	1,00	0,75	0,80	0,85	-	-	-
		46% 5,5x5,5 mm	Specific veil	0,75	0.75	0,35	0,70	0,90	0,65	0,75	0,70	-	-	-
	ALPHA PLUS α_w up to 1.00	10% Ø 2,5 mm	Specific encapsulated insulation	0,90	0.90	0,40	0,85	1,00	0,90	0,95	0,70	-	-	-
			Specific faced insulation	1,00	1.00	0,40	0,90	1,00	1,00	1,00	0,95	-	-	-
		16% Ø 2,5 mm	Specific encapsulated insulation	0,95	0.95	0,60	0,85	0,95	0,95	1,00	0,85	-	-	-
			Specific faced insulation	1,00	1.00	0,50	0,85	1,00	0,95	1,00	1,00	-	-	-
		23% Ø 2,5 mm & MESH*	Specific encapsulated insulation	1,00	0.95	0,45	0,90	1,00	0,95	1,00	0,85	-	-	-
			Specific faced insulation	1,00	1.00	0,45	0,90	1,00	0,95	1,00	1,00	-	-	-
		11% Ø 1,5 mm	Specific encapsulated insulation	1,00	0.95	0,55	0,85	1,00	1,00	1,00	0,90	-	-	-
			Specific faced insulation	1,00	1.00	0,45	0,90	1,00	0,95	1,00	1,00	-	-	-
		22% Ø 1,5 mm	Specific encapsulated insulation	1,00	0.95	0,55	0,85	0,95	0,95	1,00	0,95	-	-	-
			Specific faced insulation	1,00	0.95	0,45	0,85	1,00	0,95	1,00	1,00	-	-	-
	18% IRR	Specific encapsulated insulation	0,90	0.95	0,50	0,90	1,00	0,90	0,95	0,70	-	-	-	
		Specific faced insulation	1,00	1.00	0,45	0,90	1,00	0,95	1,00	1,00	-	-	-	
	DECIBEL $D_{n,f,w}$ up to 52 dB	16% Ø 2,5 mm	Specific encapsulated insulation + BA13	0.70(M)	0.75	0,25	0,40	0,75	0,95	0,90	0,75	52 (-3;-11) dB	49 dB	42 dB
			Specific faced insulation + BA13	0.70(MH)	0.80	0,25	0,40	0,70	1,00	1,00	1,00	47 (-4;-12) dB	43 dB	35 dB
		11% Ø 1,5 mm	Specific encapsulated insulation + BA13	0.70(MH)	0.75	0,20	0,40	0,75	1,00	0,95	0,70	52 (-3;-11) dB	49 dB	41 dB
			Specific faced insulation + BA13	0.75(MH)	0.85	0,35	0,45	0,80	1,00	1,00	1,00	46 (-3;-11) dB	43 dB	35 dB
			Specific faced insulation + sheet metal	0.70(MH)	0.80	0,35	0,40	0,85	1,00	1,00	1,00	42 (-3;-9) dB	39 dB	33 dB
		22% Ø 1,5 mm	Specific encapsulated insulation + BA13	0.70(MH)	0.75	0,25	0,40	0,70	0,95	1,00	0,85	52 (-3;-11) dB	49 dB	41 dB
			Specific faced insulation + BA13	0.70(MH)	0.75	0,25	0,40	0,70	0,95	1,00	1,00	46 (-3;-11) dB	43 dB	35 dB
			Specific faced insulation + sheet metal	0.70(MH)	0.80	0,35	0,40	0,80	1,00	1,00	1,00	42 (-3;-9) dB	39 dB	33 dB
ZENITH® THE CEILING RADIANT BY PLAFOMETAL	ALPHA PLUS α_w up to 1	16% Ø 2,5 mm	Reversible radiant + Specific encapsulated insulation	0,85	0.90	0,45	0,85	0,95	0,95	0,90	0,65	-	-	-
			Reversible radiant + Specific faced insulation	0,95	0.95	0,40	0,90	1,00	1,00	0,95	0,80	-	-	-
		22% Ø 1,5 mm	Reversible radiant + Specific encapsulated insulation	0,90	0.90	0,45	0,85	0,95	0,95	0,90	0,70	-	-	-
			Reversible radiant + Specific faced insulation	1,00	0.95	0,45	0,90	1,00	1,00	0,95	0,85	-	-	-
	DECIBEL $D_{n,f,w}$ up to 50 dB	16% Ø 2,5 mm	Reversible radiant + Specific encapsulated insulation + BA13	0.70(M)	0.80	0,25	0,45	0,90	1,00	0,80	0,60	50 (-2;-9) dB	48 dB	41 dB
			Reversible radiant + Specific faced insulation + BA13	0.75(M)	0.80	0,25	0,45	0,85	1,00	0,95	0,75	45 (-3;-10) dB	42 dB	35 dB
		11% Ø 1,5 mm	Reversible radiant + specific encapsulated insulation + BA13	0.70(M)	0.75	0,20	0,45	0,90	0,95	0,85	0,60	50 (-2;-9) dB	48 dB	41 dB
			Reversible radiant + Specific encapsulated insulation + BA13	0,75	0.80	0,20	0,45	0,90	0,95	0,90	0,70	50 (-2;-9) dB	48 dB	41 dB
		22% Ø 1,5 mm	Reversible radiant + Specific faced insulation + BA13	0.75(MH)	0.80	0,25	0,45	0,85	1,00	1,00	0,85	45 (-3;-10) dB	42 dB	35 dB

Above is the essential acoustic performance of metal ceilings.
The results are valid only for products defined, controlled, and fully delivered by PLAFOMETAL.
*The expanded metal MESH has a sound absorption coefficient α_w of 1, because its open area ratio systematically exceeds 33%, which is higher than that of a perforated sheet at 23%.

The reported values are subject to change depending on additional tests that may be carried out. It is the responsibility of the user to check the values in effect at the date of purchase and before using the product.
The sound absorption values for the ALPHA and ALPHA PLUS ranges were all obtained with a mounting height of E200.

Acoustic comfortSuspended ceiling islands

								Equivalent sound absorption area (Aeq) per island (m² sabin) - Frequency Hz by octave bands						Aeq average** (m² sabine)		Ratio m² sabin / m² of product**	
Systems	Acoustic range	Perforation	Configuration	Suspension height*mm	Shape	Dimension mm	m² product	125	250	500	1000	2000	4000	Between 125 and 4000 Hz	Between 500 and 2000 Hz	Between 125 and 4000 Hz	Between 500 and 2000 Hz
PLAFOMETAL THE ACOUSTIC METAL CEILING	ALPHA PLUS Ratio m² sabin / m² of the product up to 1.8 in speech frequencies	11% Ø1.5 mm	Specific encapsulated insulation	400	Rectangle	600 x 1200	0,72	0,20	0,70	1,00	1,40	1,30	1,20	0,97	1,2	1,3	1,7
				200				0,20	0,80	1,10	1,30	1,20	1,10	0,95	1,2	1,3	1,7
			Specific faced insulation	400				0,20	0,70	0,90	1,40	1,60	1,60	1,07	1,3	1,5	1,8
				200				0,00	0,70	1,10	1,30	1,40	1,40	0,98	1,3	1,4	1,8
			Specific encapsulated insulation	500		600 x 2400	1,44	0,80	1,20	1,60	2,40	2,50	2,10	1,77	2,2	1,2	1,5
				400				0,70	1,40	1,50	2,30	2,40	2,10	1,73	2,1	1,2	1,4
				200				0,50	1,40	1,80	2,10	2,20	1,90	1,65	2,0	1,1	1,4
				500				0,60	1,30	1,80	2,70	3,00	2,90	2,05	2,5	1,4	1,7
			Specific faced insulation	400				0,50	1,50	1,80	2,60	2,90	2,80	2,02	2,4	1,4	1,7
				200				0,40	1,50	2,10	2,40	2,70	2,60	1,95	2,4	1,4	1,7
				50				0,20	0,90	2,00	2,40	2,30	2,10	1,65	2,2	1,1	1,6
			Specific encapsulated insulation	400		800 x 1800	1,44	0,70	1,50	1,90	2,50	2,50	2,10	1,87	2,3	1,3	1,6
				200				0,40	1,50	2,00	2,30	2,20	1,70	1,68	2,2	1,2	1,5
				400				0,60	1,40	1,80	2,50	2,80	2,80	1,98	2,4	1,4	1,6
				200				0,40	1,40	2,00	2,30	2,50	2,40	1,83	2,3	1,3	1,6
			Specific encapsulated insulation	400		1200 x 2400	2,88	1,20	2,80	3,50	4,60	4,50	3,60	3,37	4,2	1,2	1,5
				200				0,90	2,90	3,70	4,10	4,00	3,30	3,15	3,9	1,1	1,4
				400				0,90	2,80	3,40	4,70	5,10	4,90	3,63	4,4	1,3	1,5
				200				0,80	2,70	3,70	4,20	4,50	4,40	3,38	4,1	1,2	1,4
		22% Ø1.5 mm	Specific encapsulated insulation	500		1200 x 1200	1,44	0,80	1,30	1,60	2,20	2,20	1,70	1,63	2,0	1,1	1,4
				400				0,80	1,30	1,60	2,20	2,20	1,60	1,62	2,0	1,1	1,4
				200				0,70	1,30	1,80	1,90	1,90	1,50	1,52	1,9	1,1	1,3
				500				0,90	1,20	1,60	2,30	2,60	2,50	1,85	2,2	1,3	1,5
			Specific faced insulation	400				0,50	1,30	1,80	2,50	2,70	2,60	1,90	2,3	1,3	1,6
				200				0,50	1,20	1,80	2,00	2,30	2,30	1,68	2,0	1,2	1,4
			Specific encapsulated insulation	400		600 x 2400	1,44	0,60	1,40	1,80	2,60	2,60	2,00	1,83	2,3	1,3	1,6
				400				0,50	1,40	1,80	2,60	2,90	2,90	2,02	2,4	1,4	1,7
				200				0,30	1,50	2,10	2,50	2,70	2,60	1,95	2,4	1,4	1,7
				400		1200 x 2400	2,88	1,10	3,00	3,50	4,40	4,70	4,00	3,45	4,2	1,2	1,5
			Specific faced insulation	400				0,80	2,80	3,40	4,50	5,00	5,10	3,60	4,3	1,3	1,5

ZENITH® THE CEILING RADIANT BY PLAFOMETAL	ALPHA PLUS Ratio m² sabin / m² of product up to 1.7 in speech frequencies	11% Ø1.5 mm	Reversible radiant + Specific encapsulated insulation	400	Rectangle	600 x 2400	1,44	0,60	1,40	1,90	2,60	2,40	1,80	1,78	2,3	1,2	1,6
			Reversible radiant + Specific faced insulation	400				0,50	1,40	1,90	2,70	2,70	2,30	1,92	2,4	1,3	1,7
				200				0,30	1,60	2,10	2,40	2,40	2,10	1,82	2,3	1,3	1,6
			Reversible radiant + Specific encapsulated insulation	400		1200 x 2400	2,88	1,00	2,70	3,60	4,40	4,00	3,10	3,13	4,0	1,1	1,4
			Reversible radiant + Specific faced insulation	400				1,00	2,70	3,50	4,50	4,60	4,00	3,38	4,2	1,2	1,5
		22% Ø1.5 mm	Reversible radiant + Specific encapsulated insulation	400	Rectangle	600 x 2400	1,44	0,50	1,50	1,90	2,60	2,40	1,90	1,80	2,3	1,3	1,6
			Reversible radiant + Specific faced insulation	400				0,60	1,40	1,90	2,70	2,80	2,50	1,98	2,5	1,4	1,7
				200				0,30	1,50	2,10	2,40	2,50	2,10	1,82	2,3	1,3	1,6
			Reversible radiant + Specific encapsulated insulation	400		1200 x 2400	2,88	1,10	2,80	3,70	4,50	4,20	3,30	3,27	4,1	1,1	1,4
			Reversible radiant + Specific faced insulation	400				0,90	2,80	3,50	4,60	4,80	4,30	3,48	4,3	1,2	1,5

Above is the essential acoustic performance of metal ceilings. The results are valid only for products defined, tested, and fully delivered by PLAFOMETAL

Speech frequencies

Speech frequencies

Speech frequencies

Above is the essential acoustic performance of metal ceilings. The results are valid only for products defined, tested, and fully delivered by PLAFOMETAL.

*distance from the rear face of the island to the supporting ceiling
 **non-standardized data: not present in the test reports

The Aeq - which is defined as the product of the sound absorption coefficient and the surface area of the measured panel - is an imaginary area given in m² with a sound absorption coefficient α sabine of 1 per frequency band.

NOTES

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