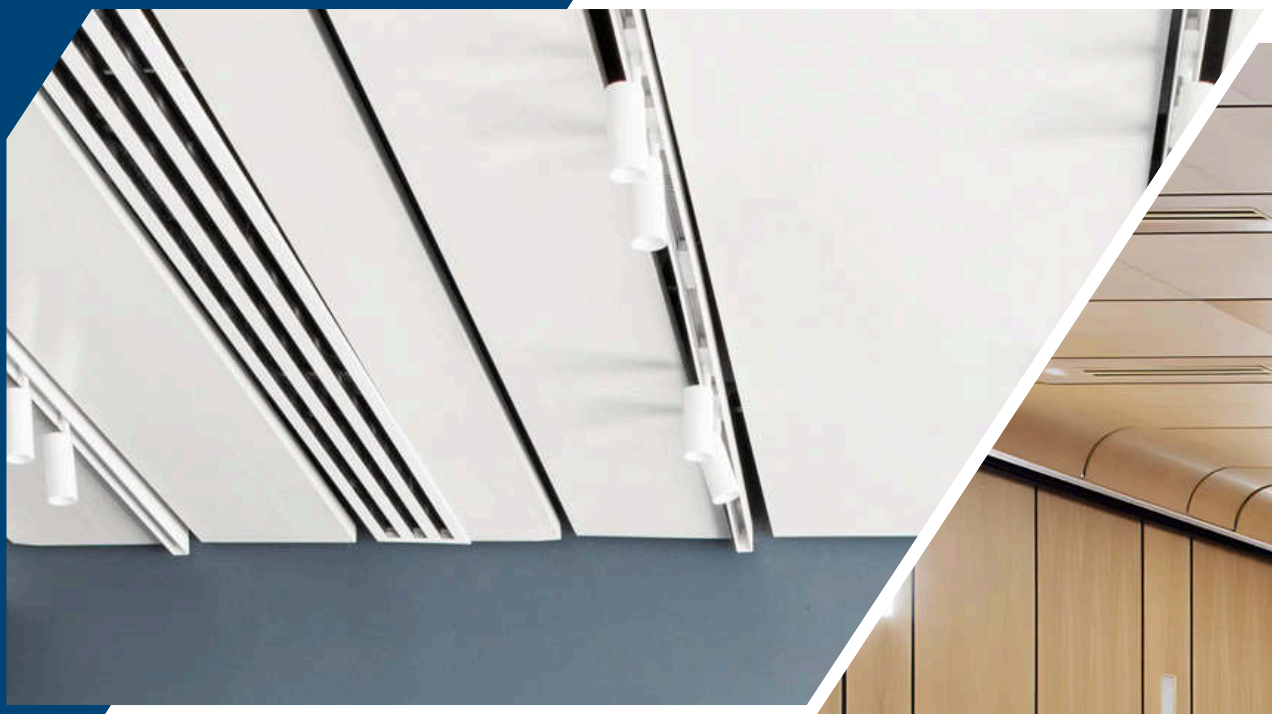
METAL LP

HECHT & EFRAIM

CONNECTING DESIGN AND CONSTRUCTION SINCE 1952

LP



Light reflection up to 83%

High sustainability

ISO 9001:2015

Quality management standard

discharges

Moisture resistance

Metal LP suspended ceiling system Made by "Hecht & Efraim" Israel.

- Metal LP ceiling filling system designed for places where high sustainability is required, such as offices, corridors and airports.
- Metal discharge acoustic ceiling system.
- Electrostatic Ivok finish.
- The ceiling system is suitable for a wide variety of building types.
- The LP system can be manufactured to match the pressure of the building and withstand winds and positive and negative air pressures.
- The system is characterized by flexible production of dimensions according to demand. Up to 2400 mm and up to 600 mm wide (it is recommended that the filling area be a maximum of 2 square meters).
- Easy and convenient operation of the ceiling fillings, can be dismantled as a hanging door.
- The fillings can be made from galvanized steel/aluminum/stainless steel.
- Sealed or acoustic fillings that have the capacity to absorb and suppress noise (full acoustics), can be cleaned and disinfected and are resistant to moisture.
- The fillings are produced in different widths: 150,300 and 600 mm and in different lengths up to 2400 mm.

- Accentuating a linear look with partially hidden Omega LP carriers.
- Lighting/air conditioning units can be integrated in the seam line.
- Easy unloading, without devices.
- High resistance to moisture.
- A continuous perimeter profile can be ordered.
- Meets standard requirements 921/5103.
- 10 year warranty.
- Includes manufacturer's installation and maintenance instructions.

*Special width dimensions (100-600 mm) can be produced upon request

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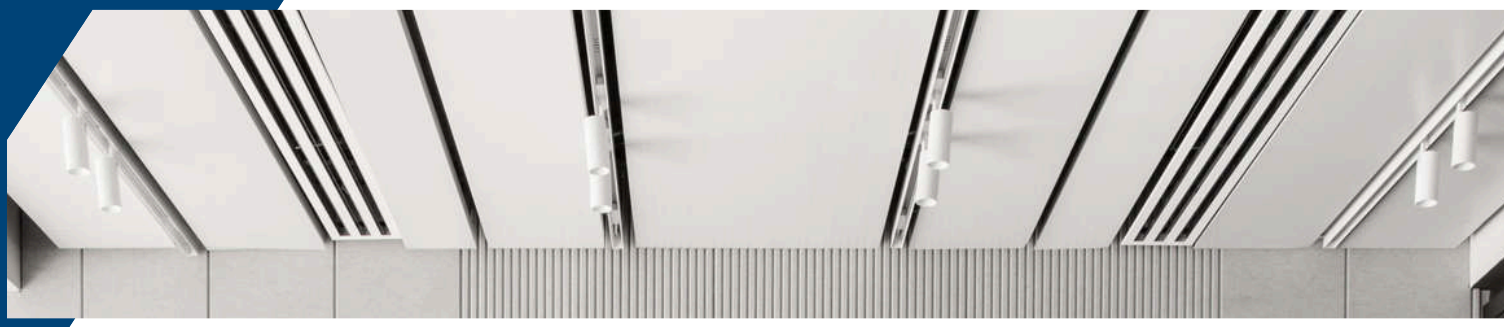


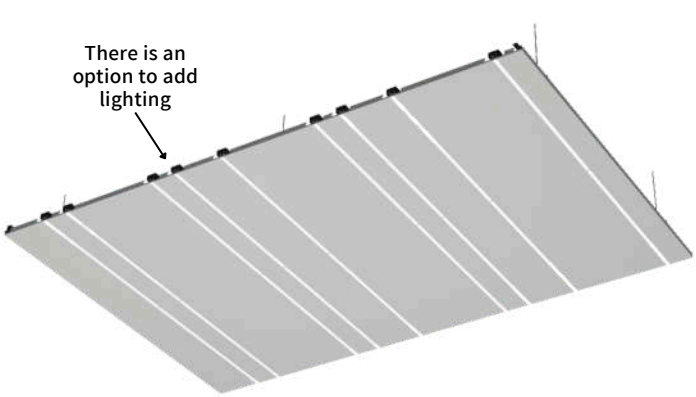
Assembly instructions

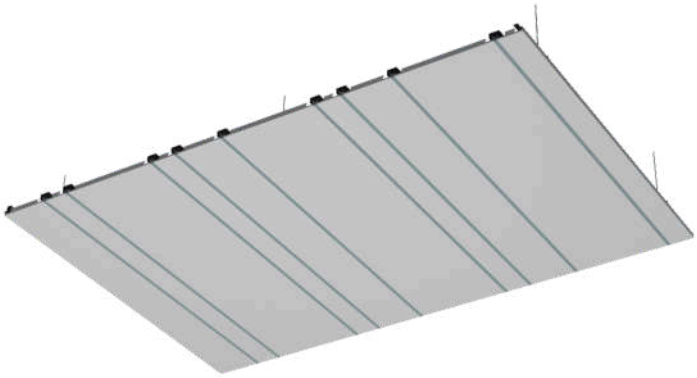
- The Metal LP liners are installed using a dedicated Omega LP profile and can be disassembled downwards. Possibility of disassembly without lowering the tray to the floor as a hanging door.
- The dedicated LP omega profile is installed according to the width of the filling (150/300/600 mm or a special size upon request) using an M6 threaded rod at distances of up to 1200 mm along the profile. The length of the LP omega profile is 3000 mm, In order to extend the profile and connect it continuously to another LP profile, use a length connector and fix it with a screw and a nut.
- A cross carrier will be installed above the dedicated LP profile at distances of up to 1200 mm using a screw and a nut. The length of the carrier is 3000 mm, in order to extend the profile and connect it continuously to another carrier, a length connector must be used and fixed, using a screw and a nut.

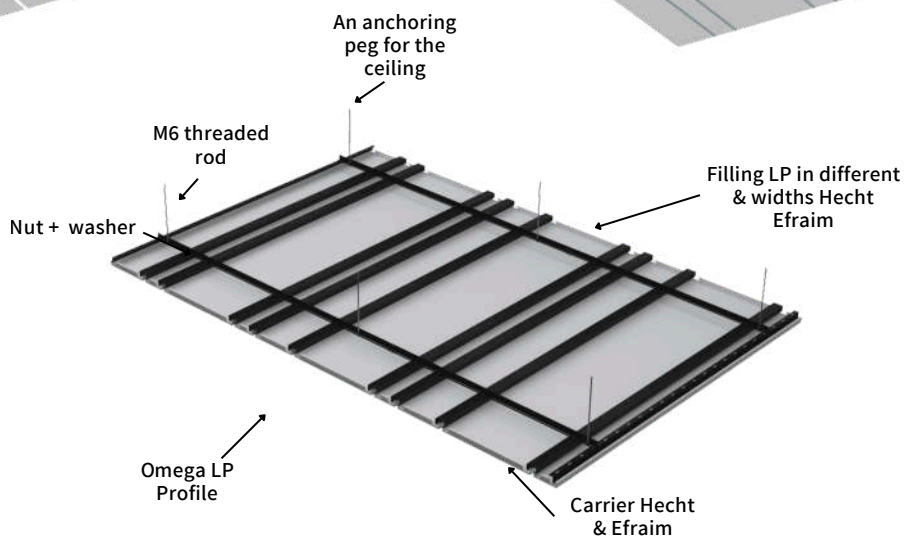
*It is possible to order a wide Omega LP profile for lighting, thereby increasing the spacing by an additional 20 mm.

Dismantling instructions

- Lifting the filler by shifting it to the side and releasing one side of the filler from the carrier. The filling can be left hanging on the other side or removed completely.
- If necessary, the filler can be completely lowered by lifting and shifting the other side of the filler.







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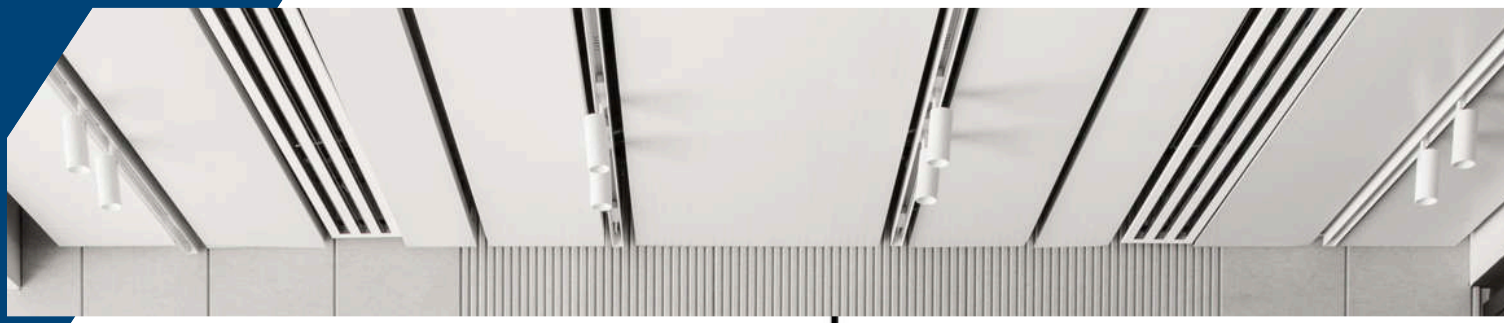

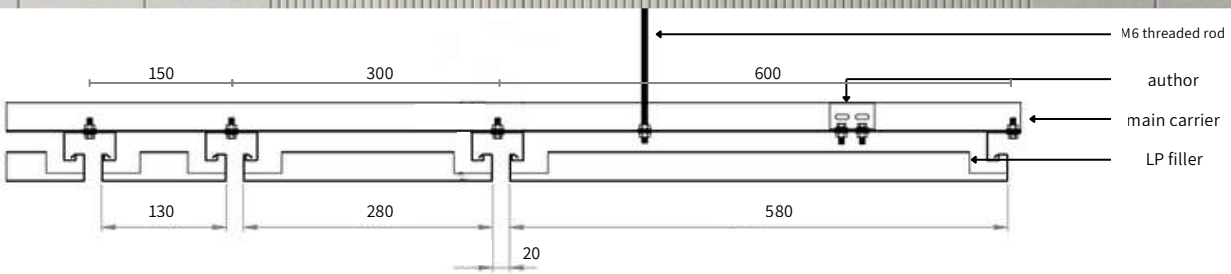

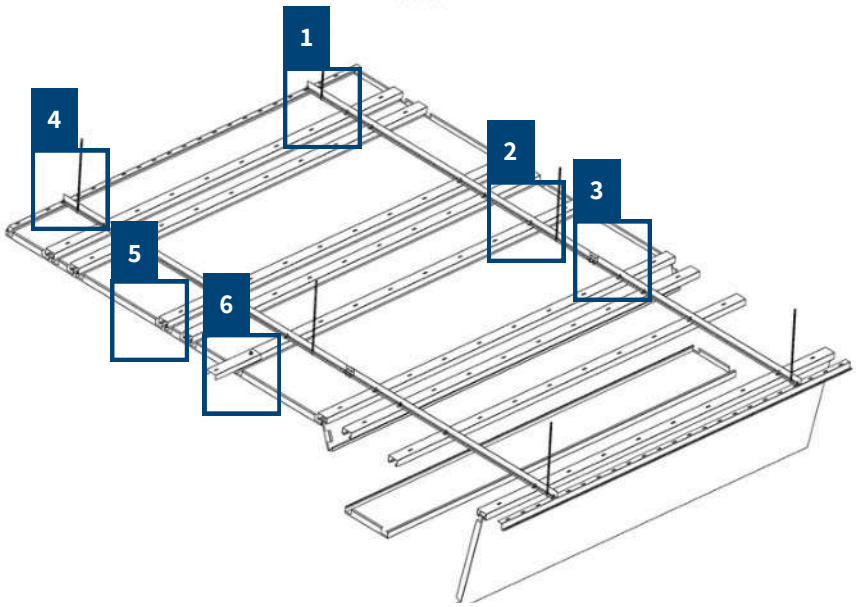

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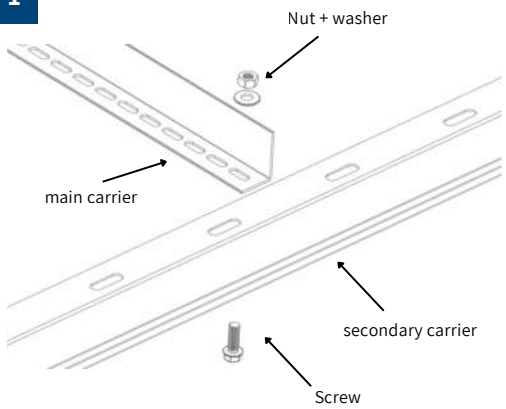

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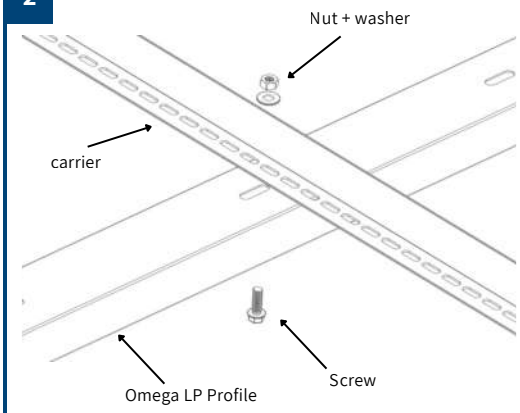

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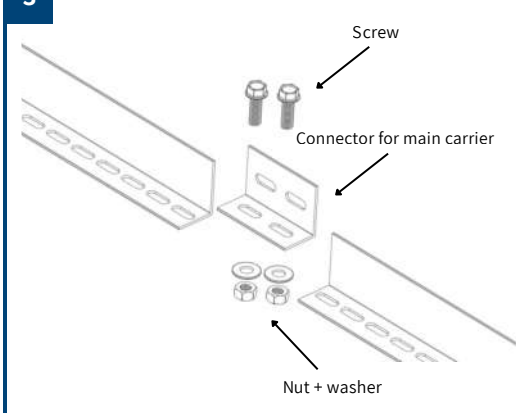

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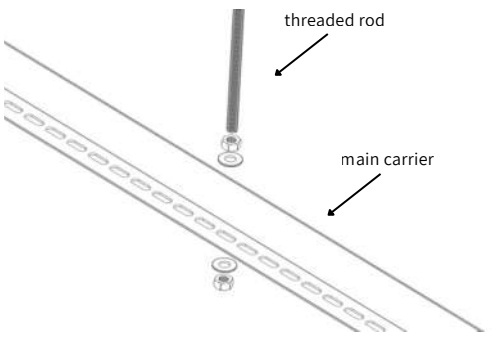
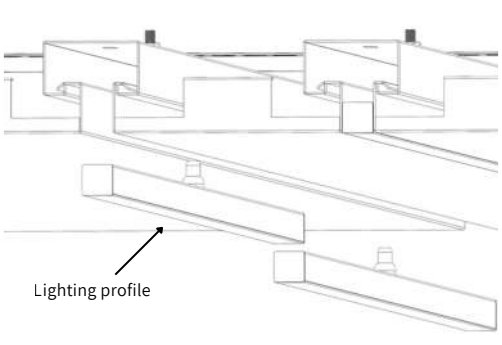


5

Option to combine lighting in the LP profile *



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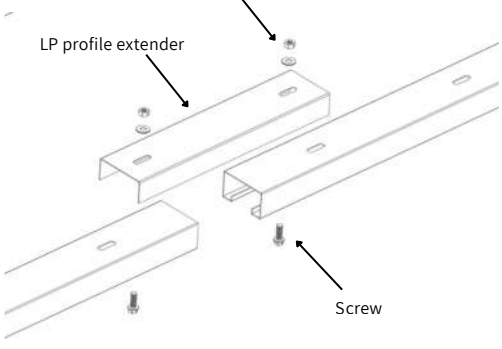

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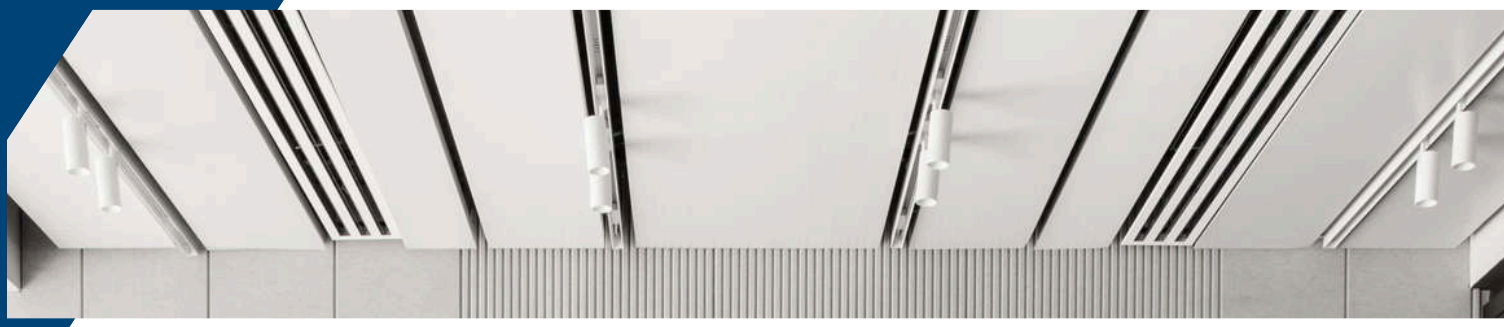
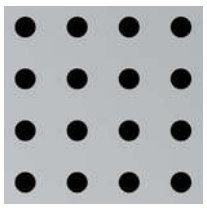


Types of perforations

A variety of perforation options are offered to the architect who can choose the size, shape and density of the perforation according to his wishes and in accordance with his various needs.
This choice is another layer of the service we provide to each customer and is designed to meet his special taste and needs.

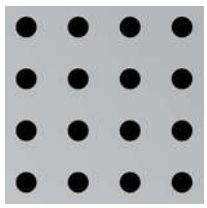
9011

N.R.C 0.65*	Round perforation straight rows 9 mm
N.R.C 0.75**	Perforation area 11%
db 40***	Max. tin width for punching 625 mm
	Perforation max. 600 mm



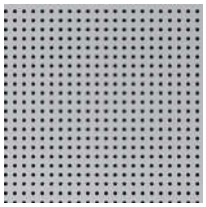
9022

N.R.C 0.65*	mm round hole 9
N.R.C 0.78**	Perforation area 22%
db 45***	Max. tin width for punching 625 mm
	Perforation max. 600 mm



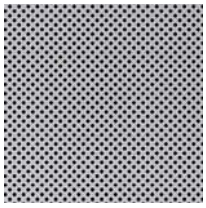
1510

N.R.C 0.70*	Round perforation straight rows 1.5 mm
N.R.C 0.75**	perforation area 10%
db 40***	Max. tin width for punching 1250 mm
	Max. perforation 1180 mm



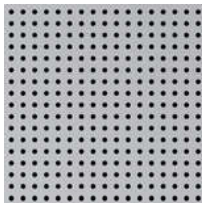
1522

N.R.C 0.75*	Round perforation 1.5 mm
N.R.C 0.85**	Perforation area 22%
db 41***	Max. tin width for punching 1250 mm
	Max. perforation 1180 mm



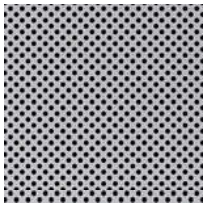
0213

N.R.C 0.70*	Round perforation straight rows 2 mm
N.R.C 0.80**	Perforation area 13%
db 50***	Max. tin width for punching 1250 mm
	Max. perforation 1180 mm



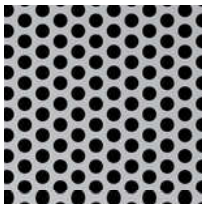
2026

N.R.C 0.78*	mm round hole 2
N.R.C 0.89**	Perforation area 26%
db 41***	Max. tin width for punching 1250 mm
	Max. perforation 1180 mm



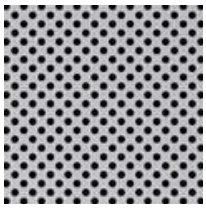
6041

N.R.C 0.85*	Dense circular perforation 6 mm
N.R.C 0.94**	Perforation area 41%
db 40 | 36***	Max. tin width for punching 1250 mm
	Max. perforation 11800 mm



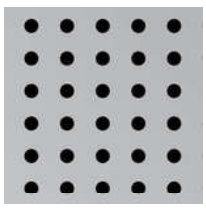
3011

N.R.C 0.81*	Round hole 3 mm
N.R.C 0.92**	Perforation area 11%
db 37***	Max. tin width for punching 625 mm
	Perforation max. 600 mm



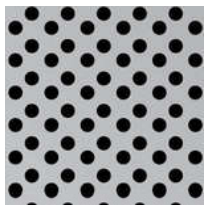
6012

N.R.C 0.70*	Round perforation straight rows 6 mm
N.R.C 0.80**	Perforation area 12%
db 50***	Max. tin width for punching 1250 mm
	Max. perforation 1180 mm



6016

N.R.C 0.75*	Round hole 6 mm
N.R.C 0.85**	Perforation area 16%
db 45***	Max. tin width for punching 1250 mm
	Max. perforation 1180 mm



*Average noise absorption with the addition of acoustic fleece gluing **Average noise absorption (with the addition of acoustic fleece gluing and the laying of a 16.1 kg per cubic meter compressed glass wool mattress) ***Average noise absorption (with the addition of acoustic fleece gluing and the laying of a rock wool mattress Compressed with a thickness of "16.1 kg per cubic meter) and a metal back panel cover

LP

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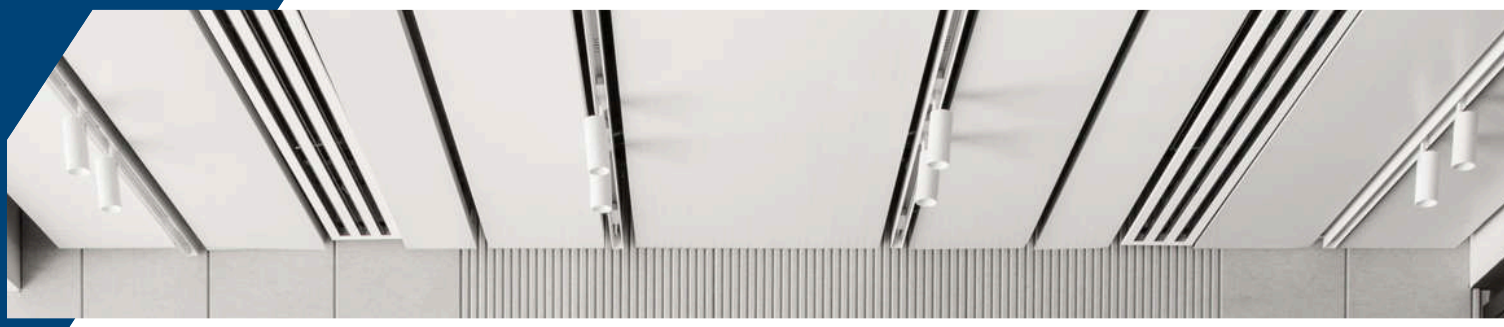

Types of perforations

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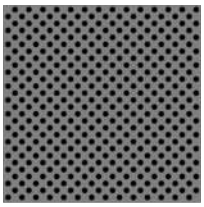
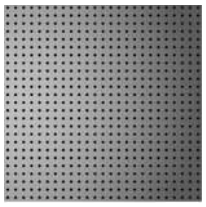
3028

N.R.C 0.78*	Round perforation straight rows 3mm
N.R.C 0.89**	Perforation area 28%
db 41***	Max. tin width for punching 500 mm
	Max. perforation 380 mm



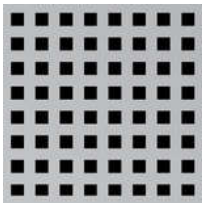
1507

N.R.C 0.70*	Round perforation straight rows 31.5mm
N.R.C 0.75**	Perforation area 7%
db 40***	Max. tin width for punching 1250 mm
	Max. perforation 1180 mm



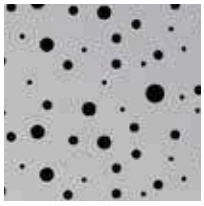
S5030

N.R.C 0.75*	Square perforation 5.5X5.5 mm
N.R.C 0.85**	perforation area 30%
db 47***	Max. tin width for punching 625 mm
	Perforation max. 600 mm



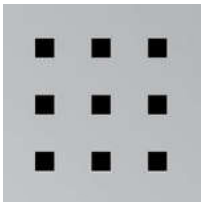
R2468

N.R.C 0.65*	Random round perforation 2X4X6X8 mm
N.R.C 0.75**	Perforation area 11%
db 45***	Max. tin width for punching 1250 mm
	Max. perforation 1180 mm



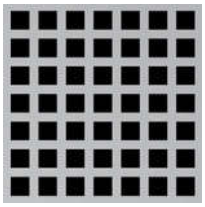
S8011

N.R.C 0.61*	8x8 mm square perforation
N.R.C 0.75**	Perforation area 11%
db 40 | 42***	Max. tin width for punching 1250 mm
	Max. perforation 1180 mm



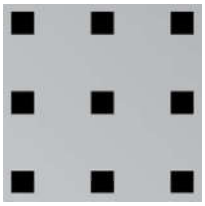
S8044

N.R.C 0.85*	8x8 mm square perforation
N.R.C 0.94**	Perforation area 44%
db 40 | 36***	Max. tin width for punching 1250 mm
	Max. perforation 1180 mm



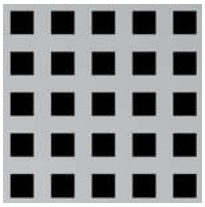
S1012

N.R.C 0.65*	Dense circular perforation 10X10 mm
N.R.C 0.75**	Perforation area 12%
db 40***	Max. tin width for punching 625 mm
	Perforation max. 600 mm



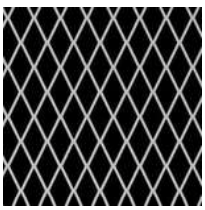
S1036

N.R.C 0.85*	Round perforation 10x10 mm
N.R.C 0.94**	Perforation area 36%
db 45***	Max. tin width for punching 625 mm
	Perforation max. 600 mm



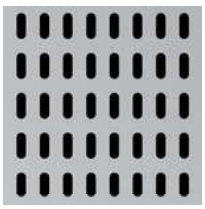
D170

N.R.C 0.75*	Diamond punch 9X20 mm
N.R.C 0.84**	Perforation area 70%
db 42***	Max. tin width for punching 625 mm
	Perforation max. 600 mm



OB40

N.R.C 0.45*	Oval perforation 4X15 mm
N.R.C 0.95**	Perforation area 25%
db 39***	Max. tin width for punching 625 mm
	Perforation max. 600 mm



*Average noise absorption with the addition of acoustic fleece gluing **Average noise absorption (with the addition of acoustic fleece gluing and the laying of a 16.1 kg per cubic meter compressed glass wool mattress) ***Average noise absorption (with the addition of acoustic fleece gluing and the laying of a rock wool mattress Compressed with a thickness of "16.1 kg per cubic meter) and a metal back panel cover

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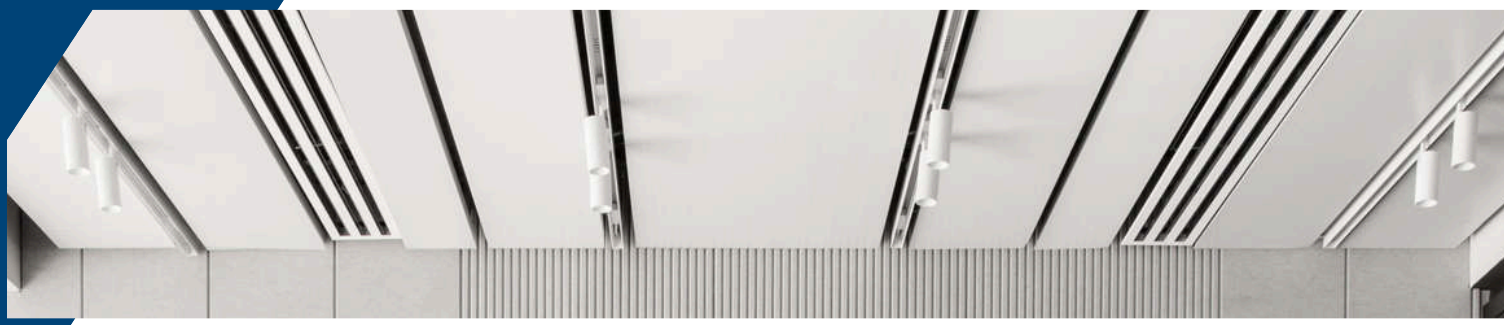


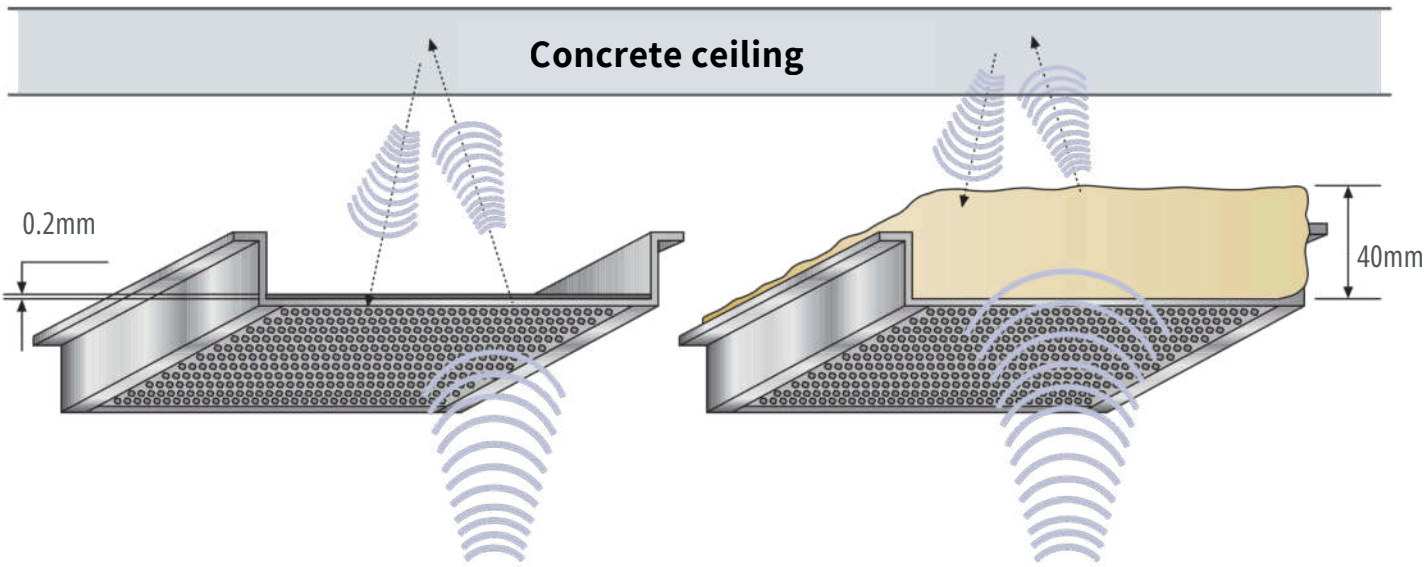
isolation

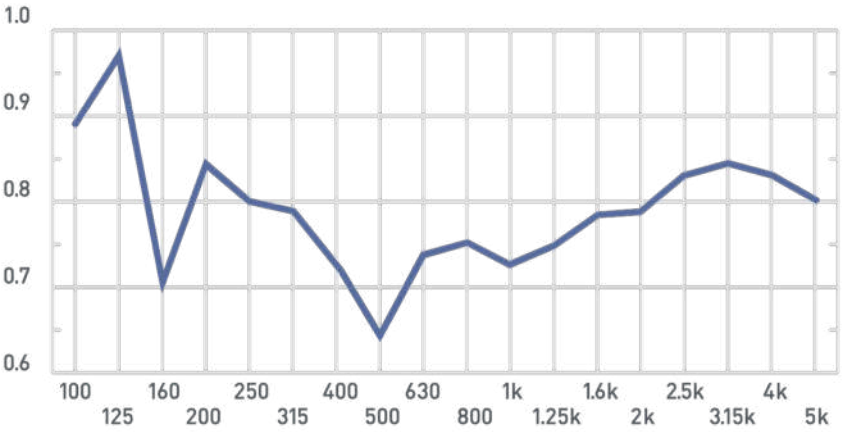
The Hecht Ephraim company is a representative of the Royaline company - Germany.

Non-woven acoustic fleece, with a noise absorption capacity of up to 0.8 (reduction of about 10 decibels) with a thickness of 0.2 mm is affixed with acoustic glue on the back of the ceiling and wall units.

advantages

- High noise absorption, effective handling of different decibel levels (see diagram).
- It does not detach and does not move from the unit, so removing the trays for the purpose of maintaining the systems above them and re-placing them afterwards is easy, fast and simple.
- Meets the requirements of TI 921.
- The insulation does not absorb moisture.
- Acoustic insulation in black tones that emphasizes the appearance of perforation and alternatively in white tones for a monolithic look.





ROYALIN
turning materials into solutions