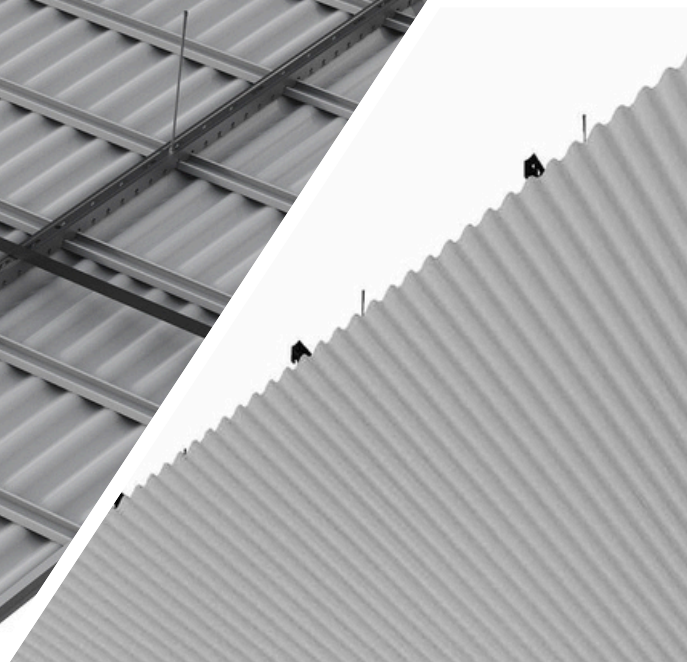


WAVE ceiling



HECHT & EFRAIM

CONNECTING DESIGN AND CONSTRUCTION SINCE 1952



High
sustainability



9001:2015
Quality
management
standard



discharges



Moisture
resistance

Metal ceiling system, WAVE ceiling Made by Hecht-Ephraim

- Easy access to areas above the ceiling.
- Meets the requirements of standard 921.
- 10-year warranty.
- Includes manufacturer's installation and maintenance instructions.
- The tile is coated with hot-dip galvanized zinc and painted with epoxy polyester paint in a RAL color of your choice.

- Continuous ceiling made of 0.5 mm thick steel sheet
- The WAVE ceiling system has high wind resistance and is particularly suitable for large spaces that do not require constant access to systems above, such as:
Halls, warehouses and garages.
- Perforated panels according to selected perforation and gluing of acoustic fleece with high noise absorption capacity.
- The system panels have a width of 1000 mm and a length that varies as needed
- Installation using the 47 construction system according to specifications

Perforation: According to manufacturer's catalog.

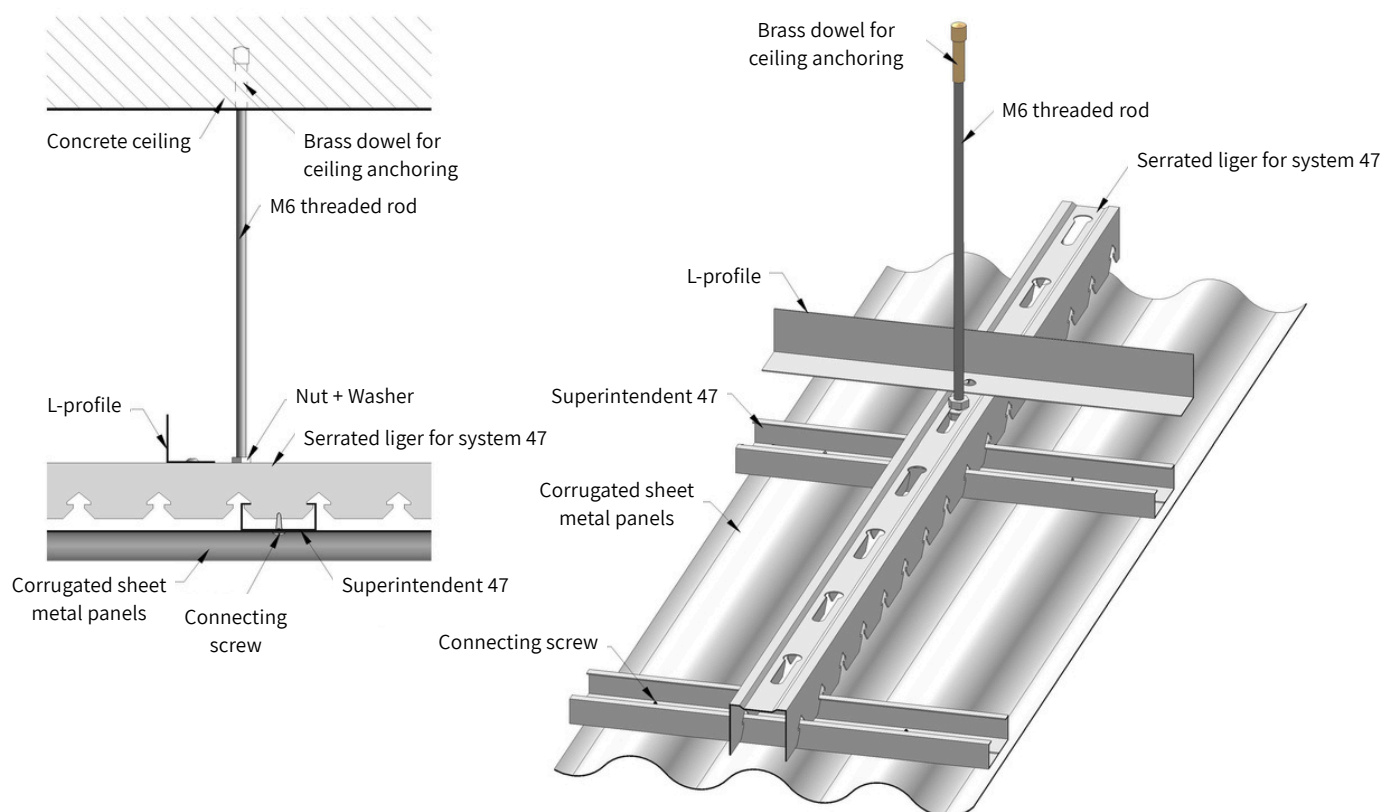
Carrier system: System 47 manufactured by Hecht Ephraim.

Hangings: M6 rigid threaded rods. Maximum spacing between hangings – 1 m according to approval by the Standards Institute.



Assembly and disassembly instructions

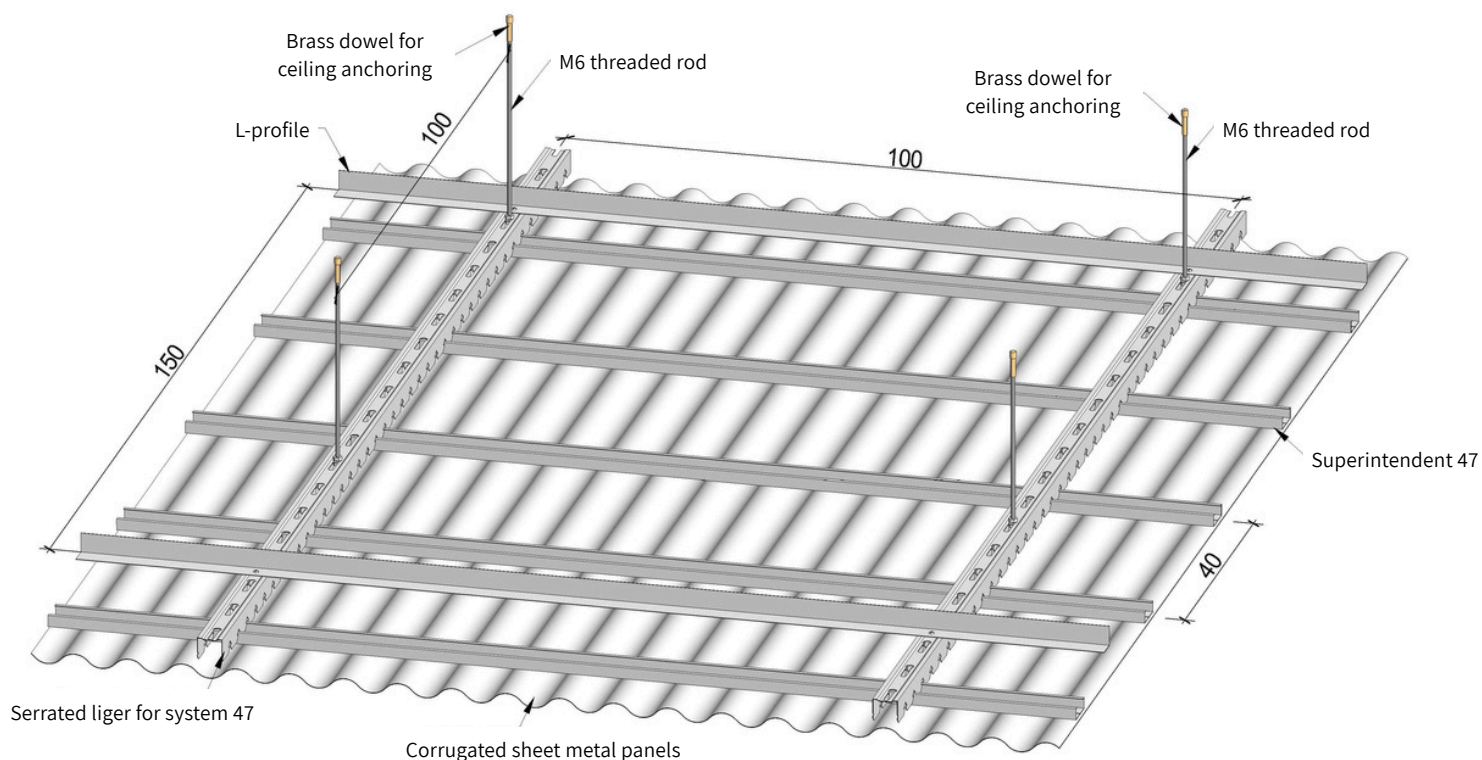
System 47 is installed according to the above drawing and in accordance with the instructions of the Standards Institute. The panels are installed with sheet metal screws to the upper profiles.

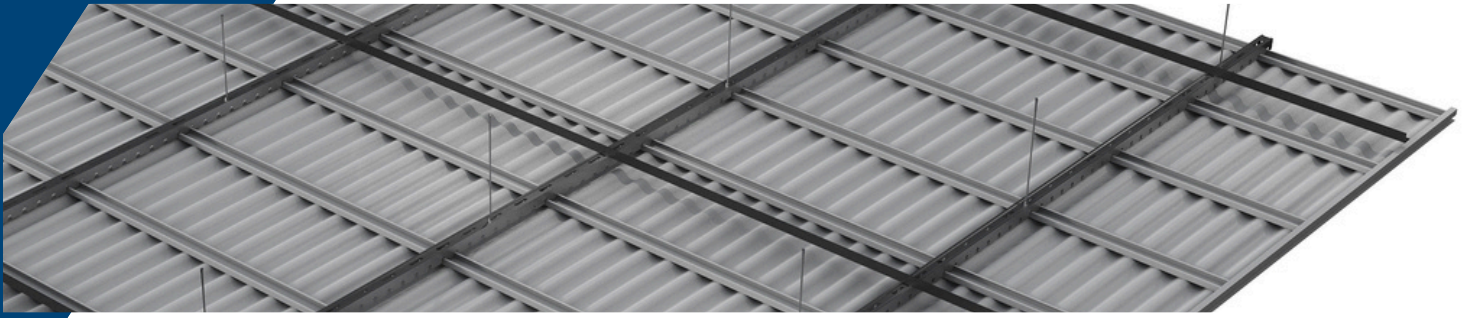




Assembly and disassembly instructions

System 47 is installed according to the above drawing and in accordance with the instructions of the Standards Institute. The panels are installed with sheet metal screws to the upper profiles.





Types of perforations

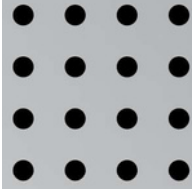
A variety of perforation options are offered to the architect who can choose the size, shape and density of the perforation according to his wishes and in accordance with his various needs.

This choice is another layer of the service we provide to each customer and is designed to meet his special taste and needs.

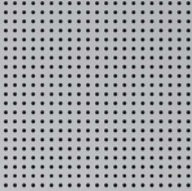
9011

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	

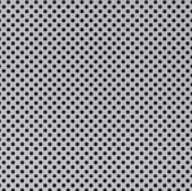
9022

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	

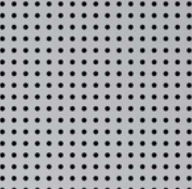
1510

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	

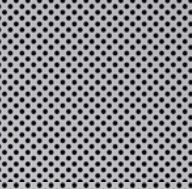
1522

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	

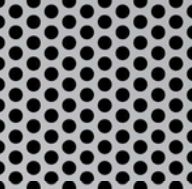
0213

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	

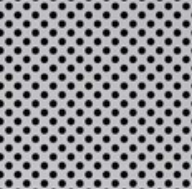
2026

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	

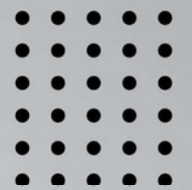
6041

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	

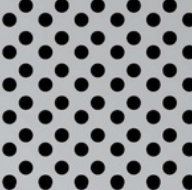
3011

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	

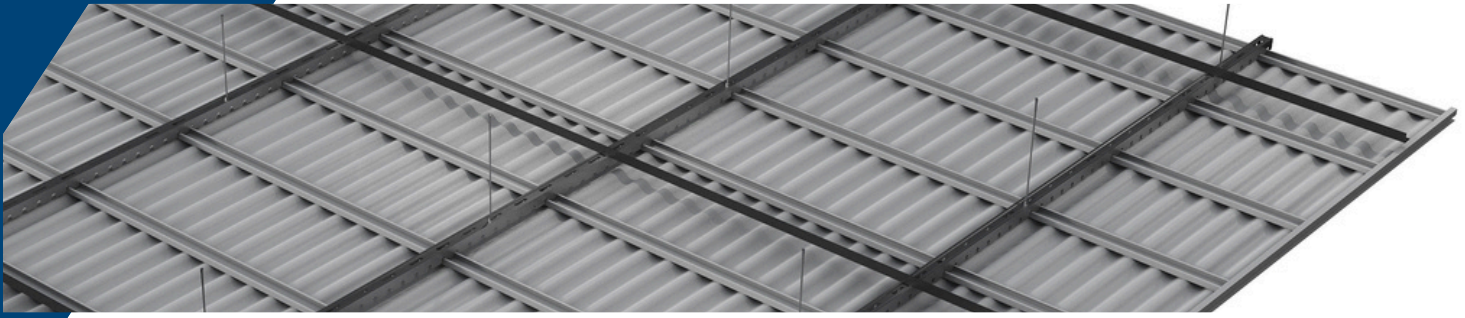
6012

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



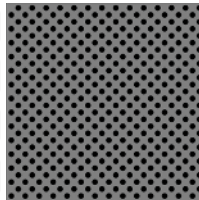
Types of perforations

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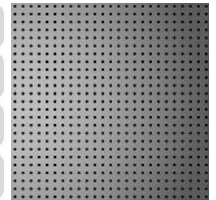
3028

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



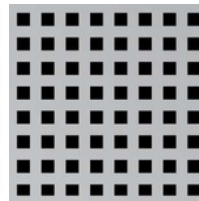
1507

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



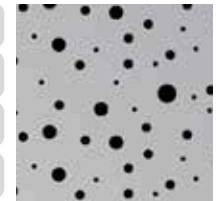
S5030

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



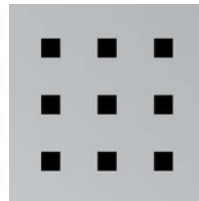
R2468

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



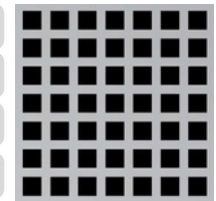
S8011

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



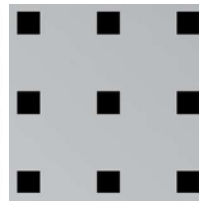
S8044

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



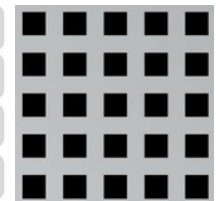
S1012

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



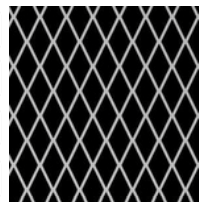
S1036

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



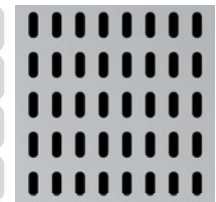
D170

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

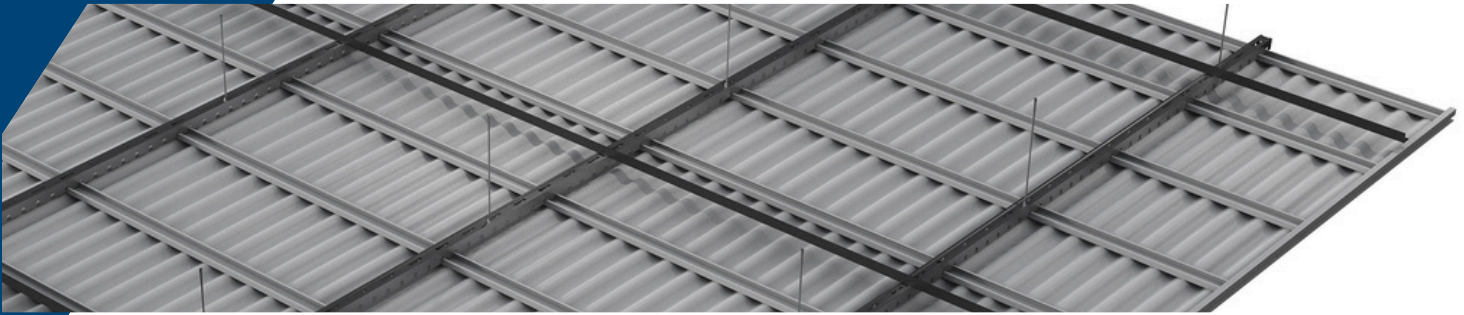


OB40

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



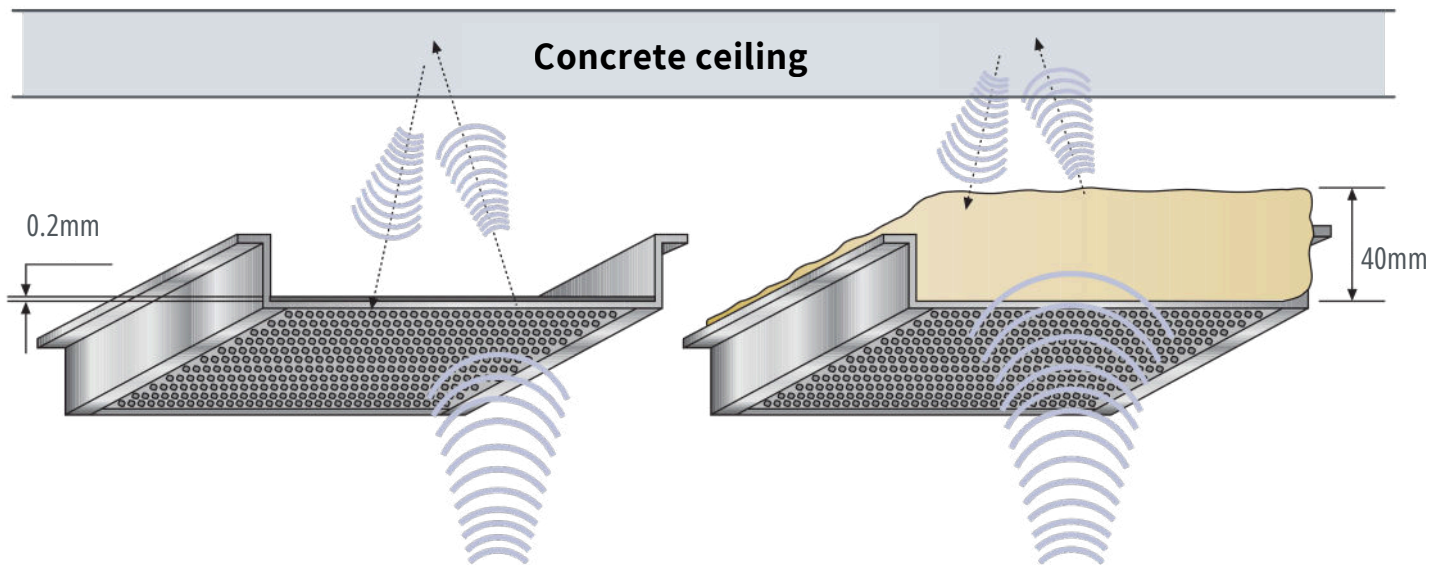
isolation

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.



*Additional glass wool/rocks can be added above the tile depending on the ceiling model.

