

OWAtecta®

Metal Ceiling Systems



OWA

For more information go to www.barbourproductsearch.info

OWAtecta[®] Metal Ceiling Systems

Another way of ceiling design

OWAtecta[®] metal ceiling panels are a designer's favourite because they offer Specifiers, Architects and Contractors a variety of creative options and solutions for many different types of building projects.

Every installation situation can be accommodated with OWAtecta[®] metal ceiling systems, which suit not only new build projects, but also renovations and refurbishments.

This catalogue shows you an overview of OWAtecta[®] standard systems, but other sizes, special products and fire protection are available on request as well.

Please visit the OWA website for further information about our metal ceiling systems: www.owa-ceilings.com

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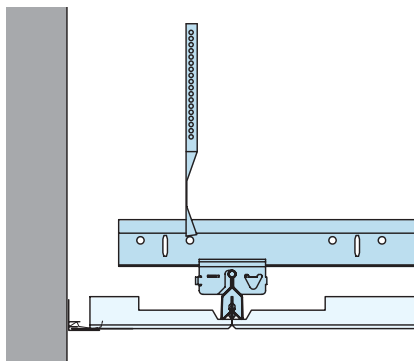
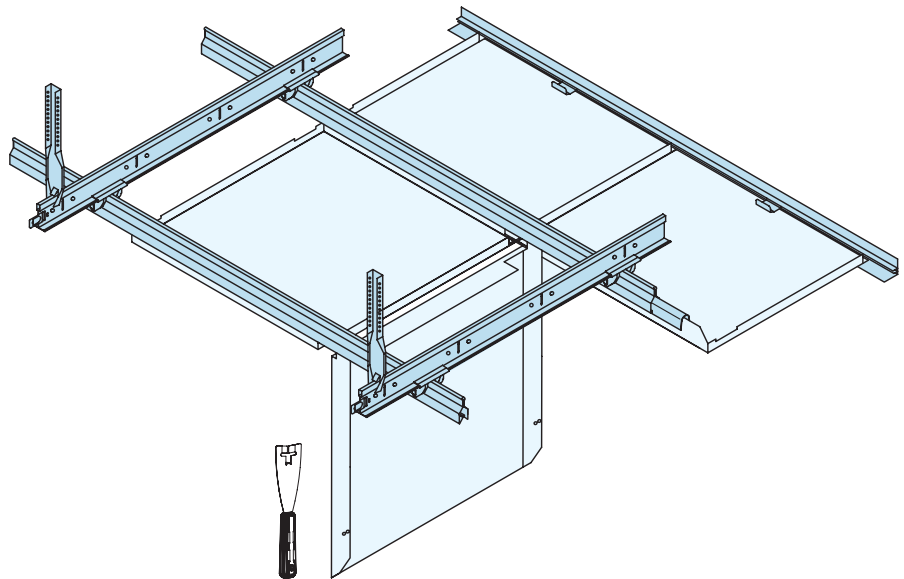


System S 22



System S 22

S 22 Clip-in system
concealed, demountable



Perforations ¹		
LO unperforated	Rg2516	Rd1522

other perforations on request

Dimension	Edge ²
625 x 625 mm 600 x 600 mm	01

¹ Perforations see page 25 – 27

² Edges see page 23

For more information go to www.barbourproductsearch.info

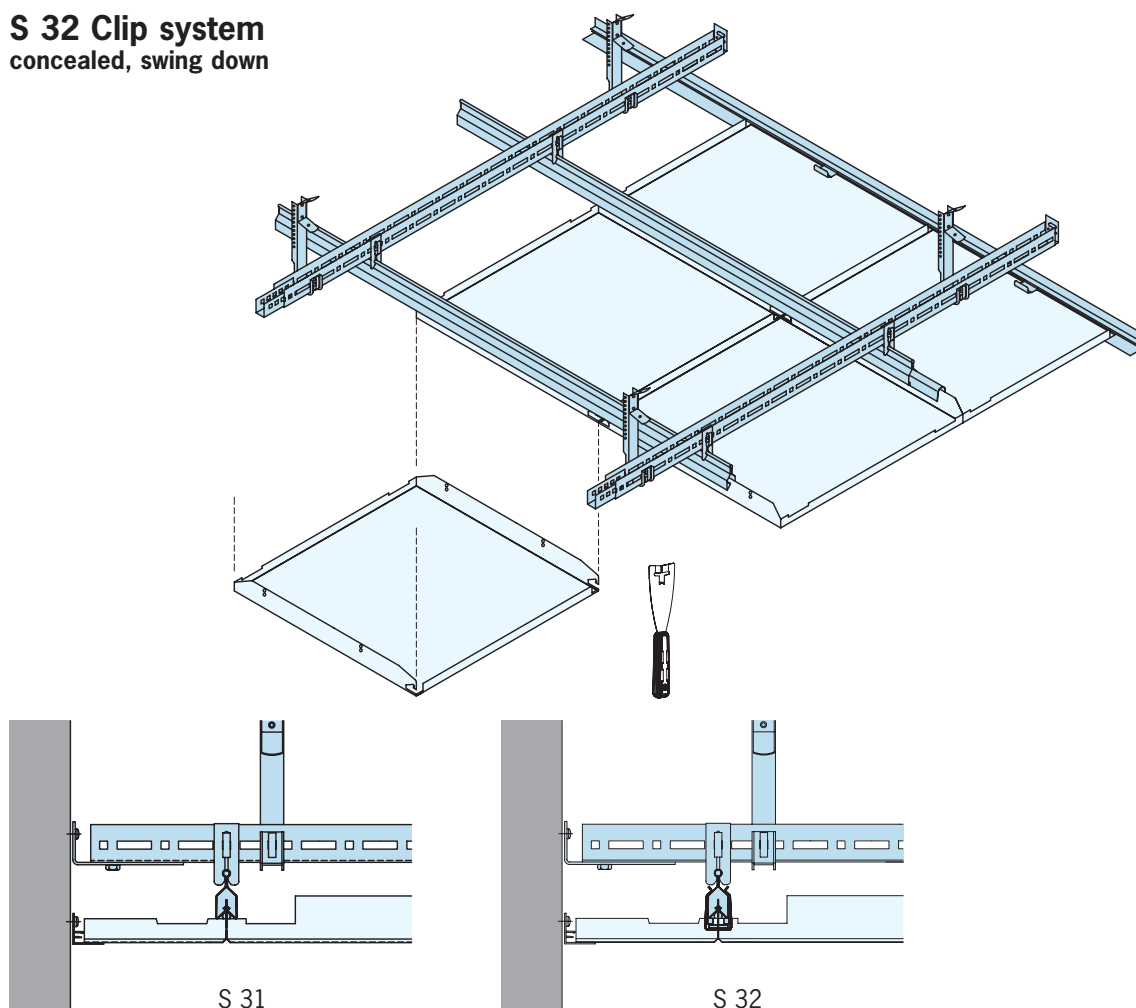
> System S 31/S 32

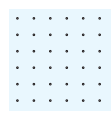
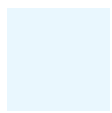
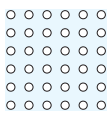
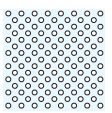
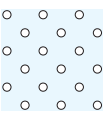
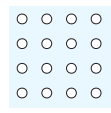
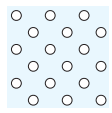
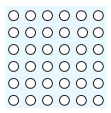
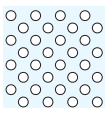
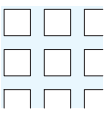


System S 31/S 32

S 31 Clip system
concealed, demountable

S 32 Clip system
concealed, swing down



Perforations ¹				
perfora 	LO unperforated 	Rg2516 	Rd1522 	Rd2508 
Rg3013 	Rd3013 	Rg3027 	Rd3025 	Qg8043 

other perforations on request

Dimensions		Edge ²
600 x 600 mm	1200 x 600 mm	01
625 x 625 mm	1200 x 300 mm	

¹ Perforations see page 25 – 27

² Edges see page 23

For more information go to www.barbourproductsearch.info

> System S 31 L/S 32 L
System S 36 L



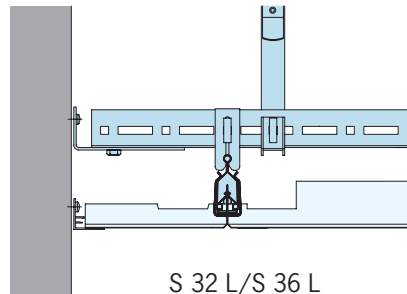
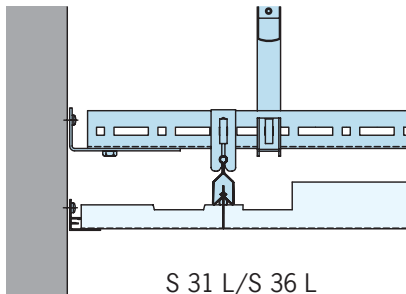
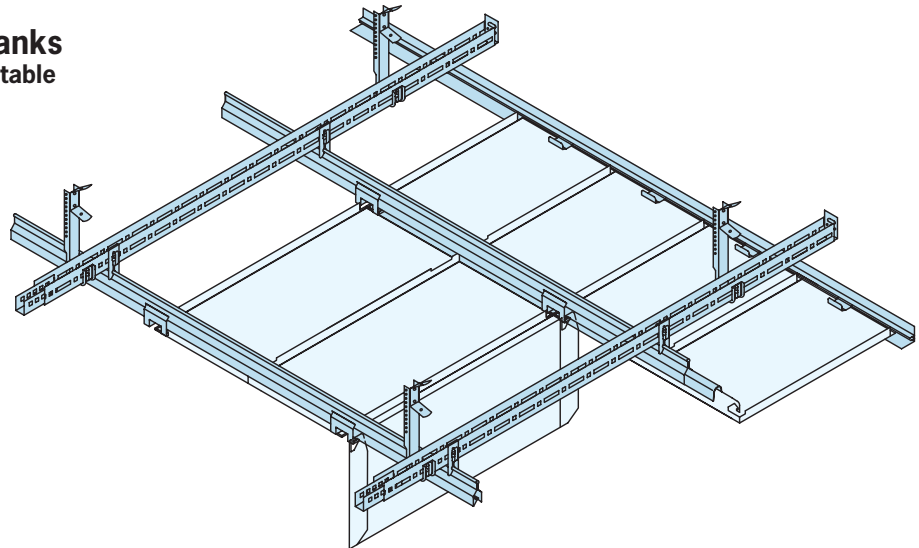
System S 31 L/S 32 L

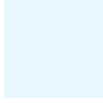
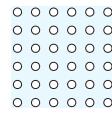
S 31 Clip-in linear planks
concealed, demountable

S 32 Clip-in linear planks
concealed, demountable

System S 36 L

S 36 Linear planks
concealed, demountable



Perforations ¹ for S 31 L/S 32 L	Perforations ¹ for S 36 L		Edge ²
all perforations possible	L0 unperforated	Rg2516	02
			

other Perforations on request

Dimensions S 31 L/S 32 L		Dimensions for S 36 L		
Widths: 247 – 600 mm	Lengths: 600 – 3300 mm	1500 x 312,5 mm	2000 x 312,5 mm	2500 x 312,5 mm
		1500 x 400 mm	2000 x 400 mm	2500 x 400 mm

other dimensions on request

other dimensions on request

¹ Perforations see page 25 – 27

² Edges see page 23

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System S 33

System S 45

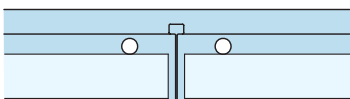
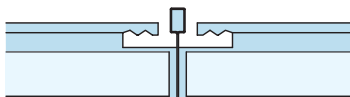
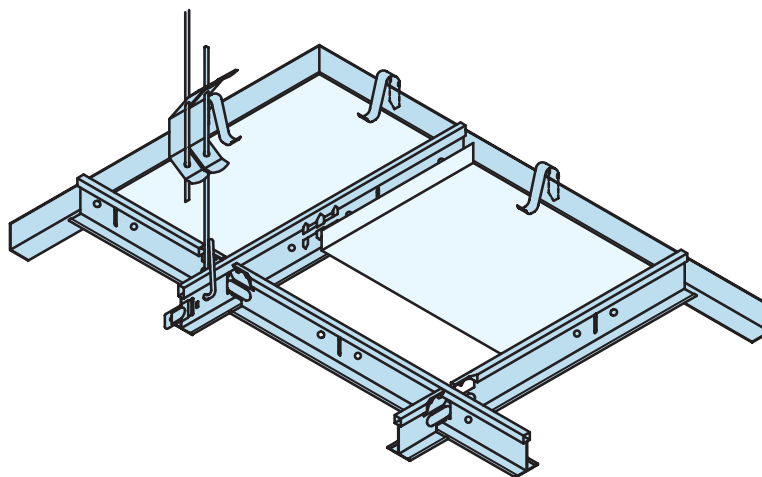


System S 33

S 33 Exposed, demountable = 24 mm grid

System S 45

S 45 Exposed, demountable = 15 mm grid



Perforations ¹				
perfora 	L0 unperforated 	Rg2516 	Rd1522 	Rd2508
Rg3013 	Rd3013 	Rg3027 	Rd3025 	Qg8043

other perforations on request

Dimensions	Edges ² S 33	Edges ² S 45
600 x 600 mm	03	03
625 x 625 mm	04	16
	07	

other dimensions on request

¹ Perforations see page 25 – 27

² Edges see page 23

For more information go to www.barbourproductsearch.info



System S 36

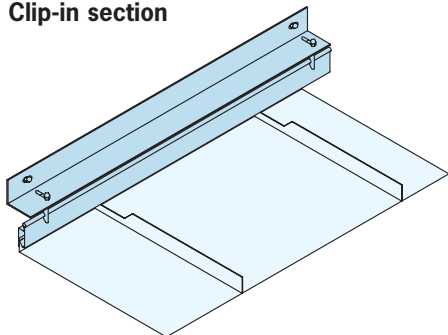


System S 36

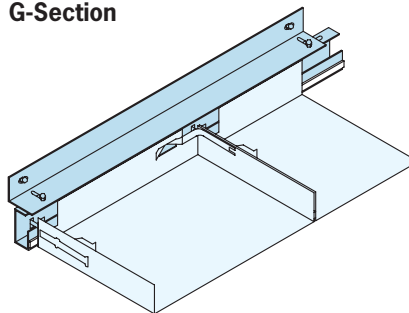
S 36

clear span from wall to wall; hinge down short side

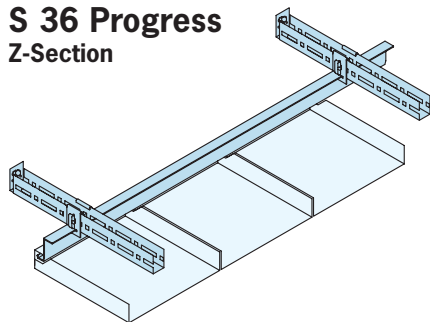
S 36 Success Clip-in section



S 36 Swing G-Section



S 36 Progress Z-Section



Perforations ¹				
perfora 	LO unperforated 	Rg2516 	Rd1522 	Rd2508
Rg3013 	Rd3013 	Rg3027 	Rd3025 	Qg8043

other perforations on request

Dimensions		Short edge ² Success	Short edge ² Swing	Short edge ² Progress
Widths: 247 – 600 mm	Lengths: 600 – 3300 mm	02	32	11s

other dimensions on request

¹ Perforations see page 25 – 27

² Edges see page 23

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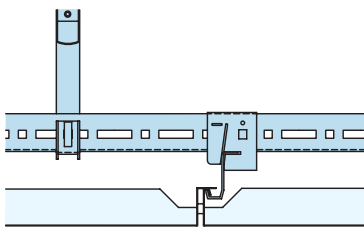
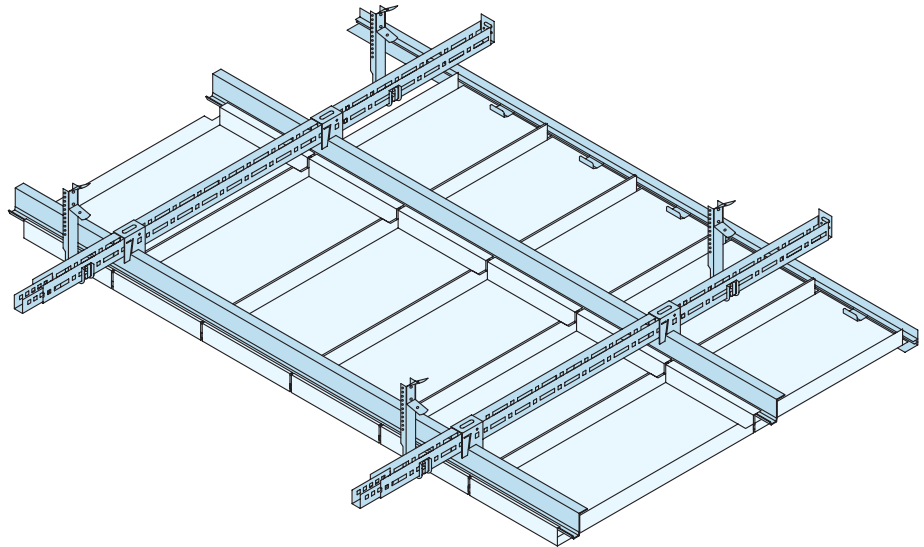


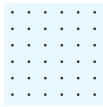
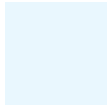
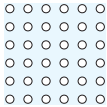
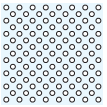
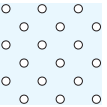
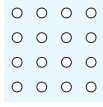
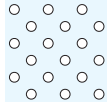
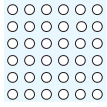
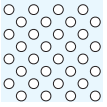
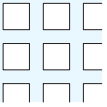
System S 39



System S 39

Hook-on linear tiles with Z-Section demountable



Perforations ¹				
perfora 	LO unperforated 	Rg2516 	Rd1522 	Rd2508 
Rg3013 	Rd3013 	Rg3027 	Rd3025 	Qg8043 

other perforations on request

Dimensions		Edge ²
Widths: 247 – 600 mm	Lengths: 600 – 3300 mm	11

other dimensions on request

¹ Perforations see page 25 – 27

² Edges see page 23

For more information go to www.barbourproductsearch.info

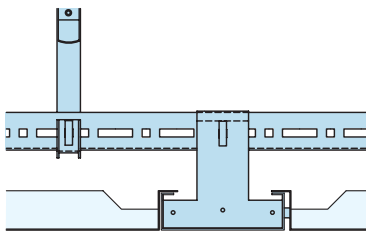
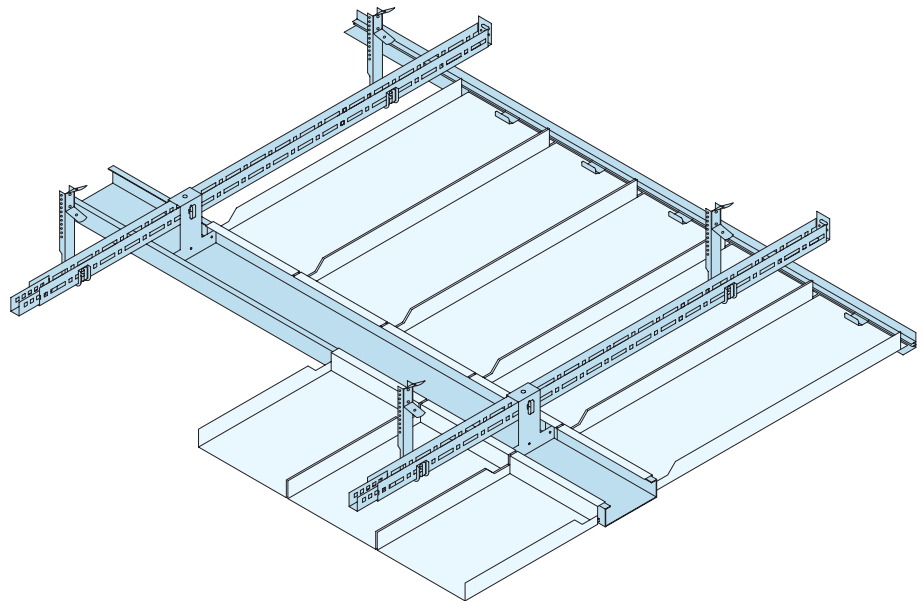



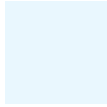
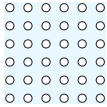
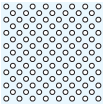
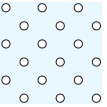
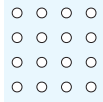
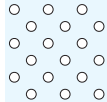
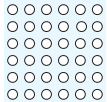
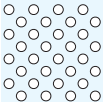
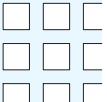
System S 48



System S 48

S 48 Bandraster (C-Section)
demountable, hinge down short side



Perforations ¹				
perfora 	LO unperforated 	Rg2516 	Rd1522 	Rd2508 
Rg3013 	Rd3013 	Rg3027 	Rd3025 	Qg8043 

other perforations on request

Dimensions		Edge ²
Center up to 3300 mm	Panels Widths: 250 mm – 750 mm Lengths: 600 mm – 3200 mm	13

¹ Perforations see page 25 – 27

² Edges see page 23

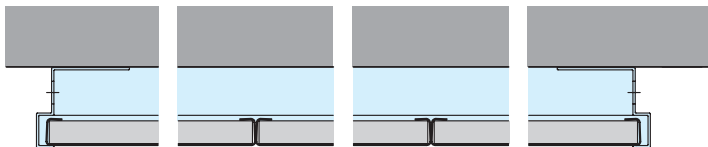
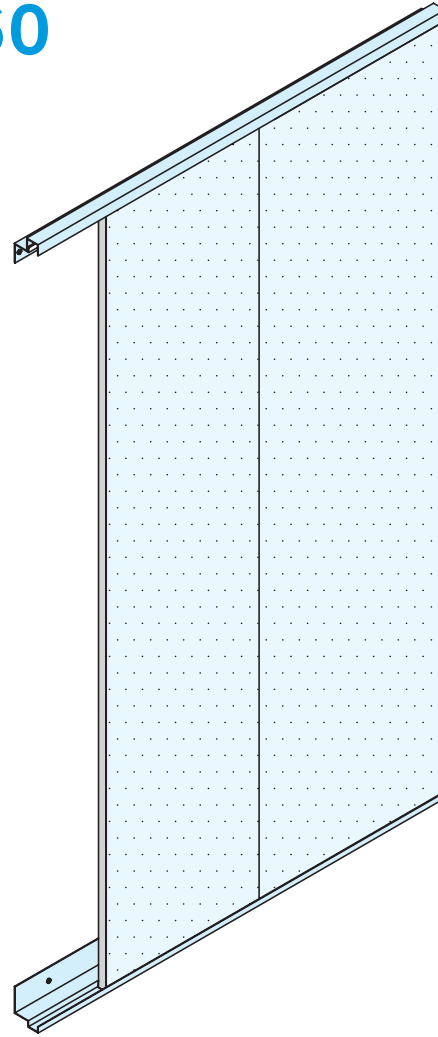
For more information go to www.barbourproductsearch.info

> Wall System S 60



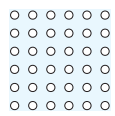
Wall System S 60

Magnetic pinboard absorber

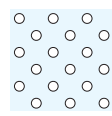


Perforations¹

Rg2516



Rd3013



Dimensions

1500 x 400 mm

other dimensions on request

Pin-board size

field length 2016 mm x field height 1516 mm
variably expandable

¹ Perforations see page 25 – 27

For more information go to www.barbourproductsearch.info

OWAtecta[®] perfora



Perfora Standard format



Perfora with Cosmos paint coating

OWAtecta® perfora

for all Systems

The idea of increasing the sound absorption of a tile with micro holes came from China. OWAtecta® perfora metal ceilings with micro perforations was developed as a result of a joint German-Chinese programme led by the Fraunhofer-Institute for Building Physics (Stuttgart).

The optical effect

The perforated metal ceiling has the same aesthetic effect as an un-perforated ceiling. The micro perforations are barely perceptible at a normal distance from the ceiling height.

High light reflection

Despite having a perforated surface, the light reflection of the ceiling hardly differs from that of a plain closed ceiling surface. The reason: only 0.64 % of the surface is open – leaving over 99 % as a reflective surface.

The acoustic principle

The sound path through millions of micro-perforations, with a diameter of < 0.5 mm, causes viscous friction at the hole edges to occur and therefore a reduction of sound energy. Reverberation time measurements clearly show that an optimum reverberation time can be achieved.

Sound absorption

Despite the relatively low sound absorption, an optimal reverberation time submits to the area. The lack of absorption at high frequencies has little noticeable effect due to the positive effect of high absorption at low and middle frequencies.



A test:

The test was made in a classroom measuring 10 x 7 x 3 m. Firstly, using a plain metal ceiling tile, the reverberation was measured in each case with and without the presence of students.

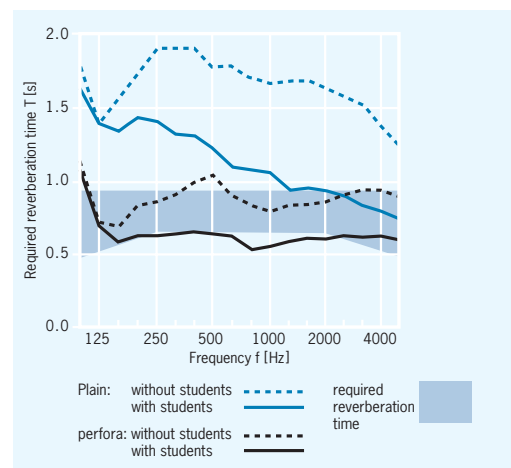
Test result 1:

Two curve paths clearly show that the yielded values are above the required optimal reverberation times.

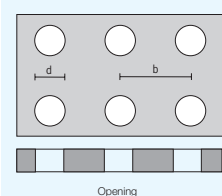
The ceiling was then dismantled and, under identical area conditions, an OWAtecta® perfora ceiling with 40.000 tiny holes per sqm was installed. Again, it was measured with and without students.

Test result 2:

Here, both curves lie in the area of the required reverberation time that represents optimal acoustic conditions regardless of how many occupants there were in the area in each case.



System drawing; Mikro perforated absorber



Mikro perforated absorber

Panel thickness $t = 0,50$ mm
Diameter $d = 0,45$ mm
Hole distance $b = 5,00$ mm
Hole depth $H = \text{variabel}$
Open surface = ca. 0,64 %

Sound conclusion



Edges



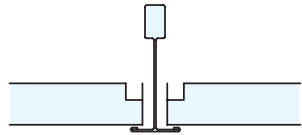
Edges



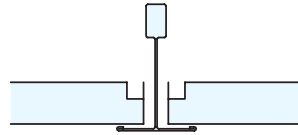
Edge 01



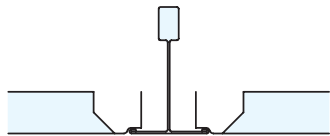
Edge 02



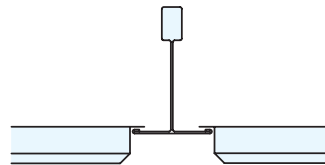
Edge 03
15 mm grid



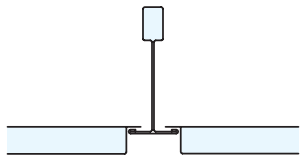
Edge 03
24 mm grid



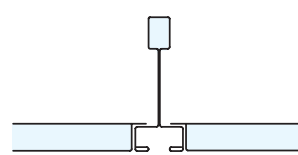
Edge 04
24 mm grid



Edge 07
24 mm grid



Edge 16
15 mm grid



Edge 16 (OWAline)



Edge 10



Edge 11



Edge 11s



Edge 13



Edge 32

For more information go to www.barbourproductsearch.info

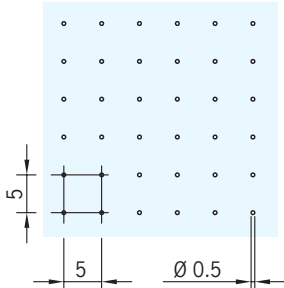


Perforations

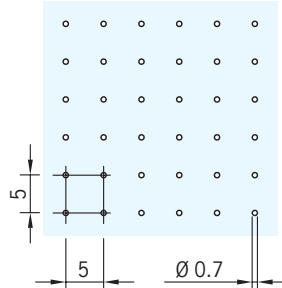


Perforations

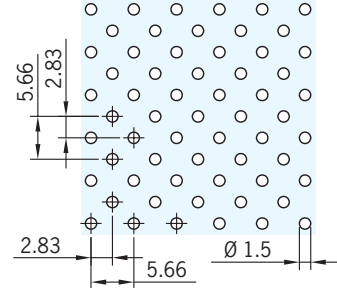
P: Perfora
0.5 mm hole diameter
0.64 % open area



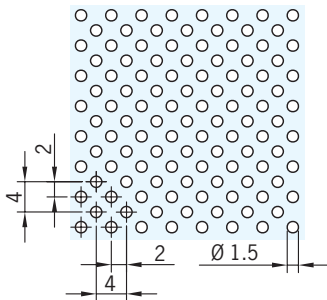
B: Rg0701
0.7 mm hole diameter
1 % open area



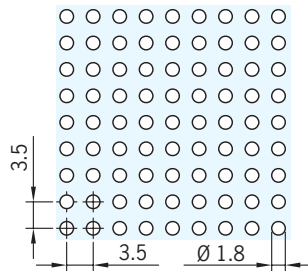
F: Rd1511
1.5 mm hole diameter
11 % open area



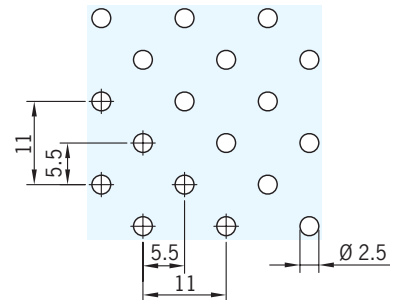
K: Rd1522
1.5 mm hole diameter
22 % open area



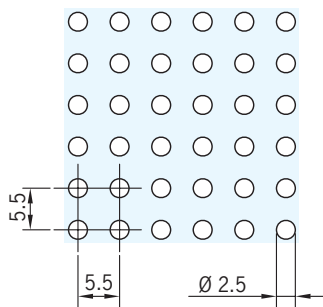
E: Rg1821
1.8 mm hole diameter
20,8 % open area



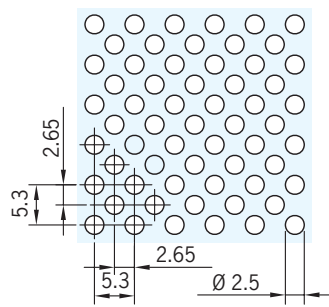
L: Rd2508
2.5 mm hole diameter
8 % open area



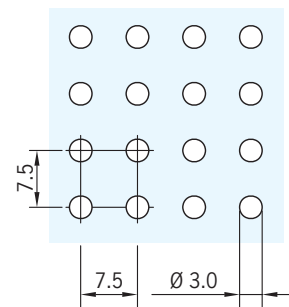
D: Rg2516
2.5 mm hole diameter
16 % open area



G: Rd2535
2.5 mm hole diameter
35 % open area

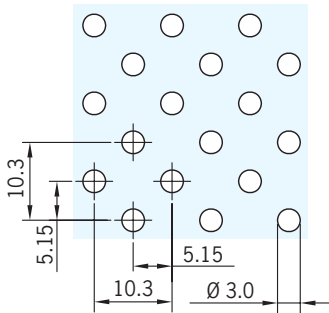


A: Rg3013
3.0 mm hole diameter
12 % open area

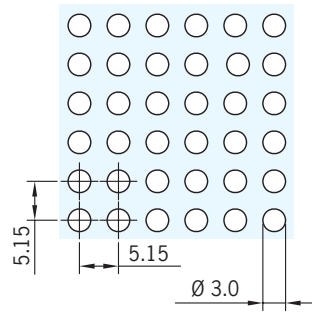


Perforations

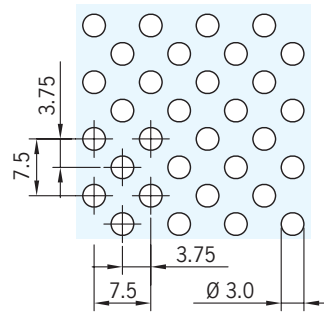
M: Rd3013
3.0 mm hole diameter
13 % open area



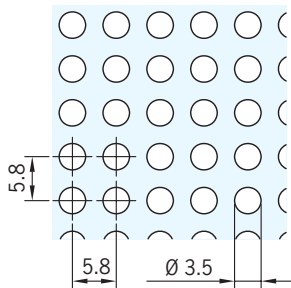
N: Rg3027
3.0 mm hole diameter
26,5 % open area



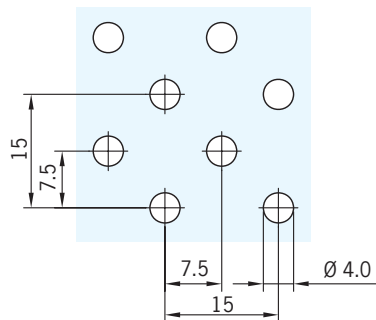
H: Rd3025
3.0 mm hole diameter
25,1 % open area



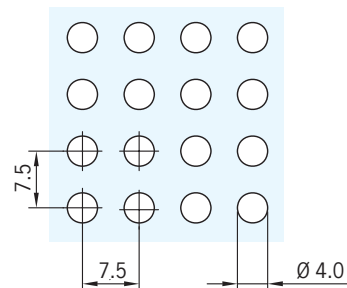
W: Rg3529
3.5 mm hole diameter
28,6 % open area



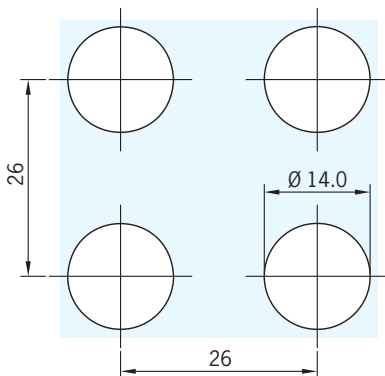
T: Rd4011
4.0 mm hole diameter
11 % open area



U: Rg4022
4.0 mm hole diameter
22 % open area

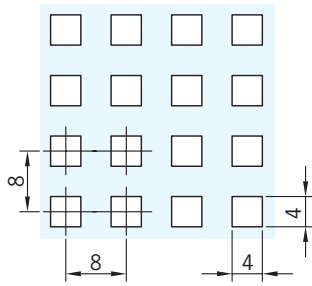


Q: Rg14023
14.0 mm hole diameter
23 % open area

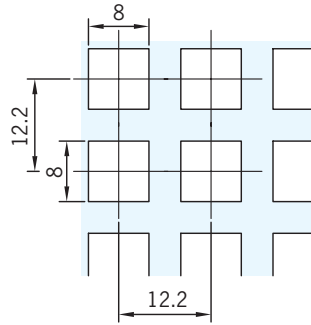


Perforations

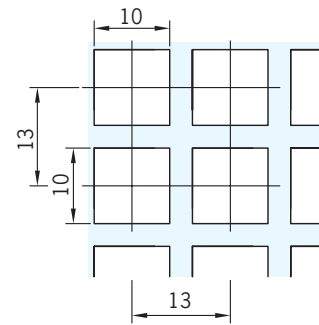
Y: Qg4025
4 x 4 mm
25 % open area



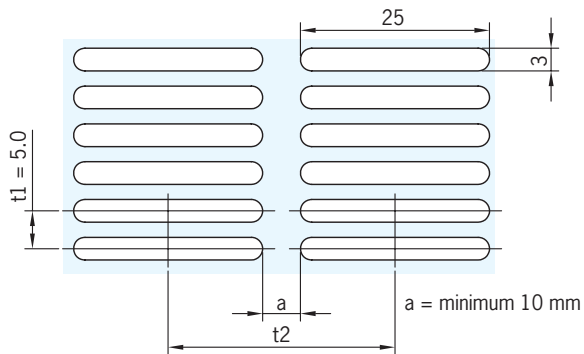
R: Qg8043
8 x 8 mm
43 % open area



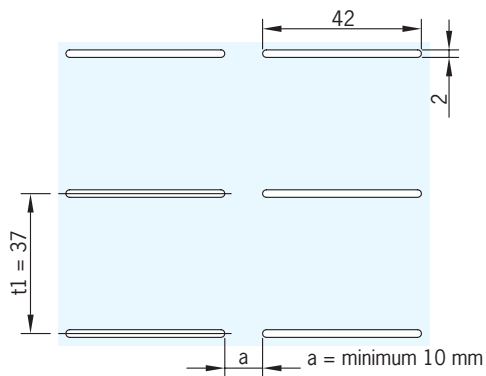
V: Qg10059
10 x 10 mm
59,2 % open area



S: Lg25042
25/3 mm
open area variable



C: Lg42003
42/2 mm
open area variable



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