KNAUF CEILING Solutions

DATASHEET

METAL Solutions BIOGUARD

- BIOGUARD is designed for applications where suspended ceilings are required, and hygiene and cleanliness are of the utmost importance
- It is more effective in the control of bacteria than a standard powder coating because it prevents the settlement of bacteria on the surface of the tile
- It gives good cleanability and resistance to disinfectants as well as cleanroom performance
- A wide range of edge details, modules and sizes is available, suitable for rooms and corridors
- One of the most durable solutions among the healthcare range
- Clean room class up to ISO 1
- Excellent sound attenuation for increased confidentiality: 44dB

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METAL Solutions - BIOGUARD

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Edge details

Various edge details are available for lay-in, clip-in, hook-on and corridors

Dimensions (mm)

Standard modules: 600 x 600, 625 x 625, 1200 x 600, 1250 x 625, depending on selected system.
Additional sizes on request.
Vario Design range: Panels up to 3300 length. See metal brochure for more detailed information.

System

Various exposed and concealed grid options

Thickness (mm)

0.5 - 0.7 mm depending on the selected system

Weight

3.1 - 7.8 kg/m²
Weight varies depending on the selected system and perforation.

Colour

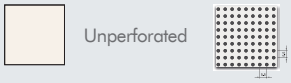
RAL 9010

Other colours

RAL 9016

Other colours from popular RAL colour system are available

Perforations



Unperforated

Standard perforation **Rg 2516**
Ø: 2.5mm
Open area: 16%

Micro-perforation **Rd 1522**
Ø: 1.5mm
Open area: 22%

Extramicro perforation **Rg 0701**
Ø: 0.7mm
Open area: 1.5%

Sound absorption

	EN ISO 354									EN ISO 10848-2	EN ISO 10140-2	
	α_w*	Class	Frequency (Hz) α_p 125	250	500	1000	2000	4000	NRC**	$D_{n,f,w}$***	R_w***	CAC****
Unperforated	0.10(L)	NC	0.25	0.15	0.05	0.05	0.10	0.10	0.10	44 dB	19 dB	–
Rg 2516 + Fleece	0.75(L)	C	0.35	0.80	0.95	0.70	0.75	0.75	0.80	18 dB	8 dB	–
Rd 1522 + Fleece	0.70	C	0.30	0.65	0.90	0.65	0.70	0.75	0.70	16 dB	6 dB	16 dB
Rg 0701 + Fleece	0.55(L)	D	0.45	0.70	0.70	0.55	0.55	0.45	0.65	21 dB	10 dB	22 dB

*as per EN ISO 11654 **as per ASTM C 423-01 ***as per EN ISO 717-1 ****as per ASTM E 413-10

The unperforated version is recommended, because it gives the best antimicrobial result.
The perforated options increase the acoustic values, but the antimicrobial performance is somewhat reduced.

Fire reaction

Euroclass **A2-s1, d0** as per EN 13501-1

Light reflectance

up to 87%

Humidity resistance

90% RH

Clean room

ISO 1 class for METAL Board 600 x 600 mm
ISO 3 class for METAL Q-Clip / METAL Q-Clip F 600 x 600 / 625 x 625 mm
ISO 5 class for METAL R-Clip F 1200 x 600 mm

Indoor air quality

A+ E1

Cleanability

Sustainability

≈14% Silver*

Design options

Dimensions Colours Perforations Acoustic Infills Cut-Outs

Product availability may vary from country to country. Please contact your local sales representative.
For further information and legal notice, please visit our website.