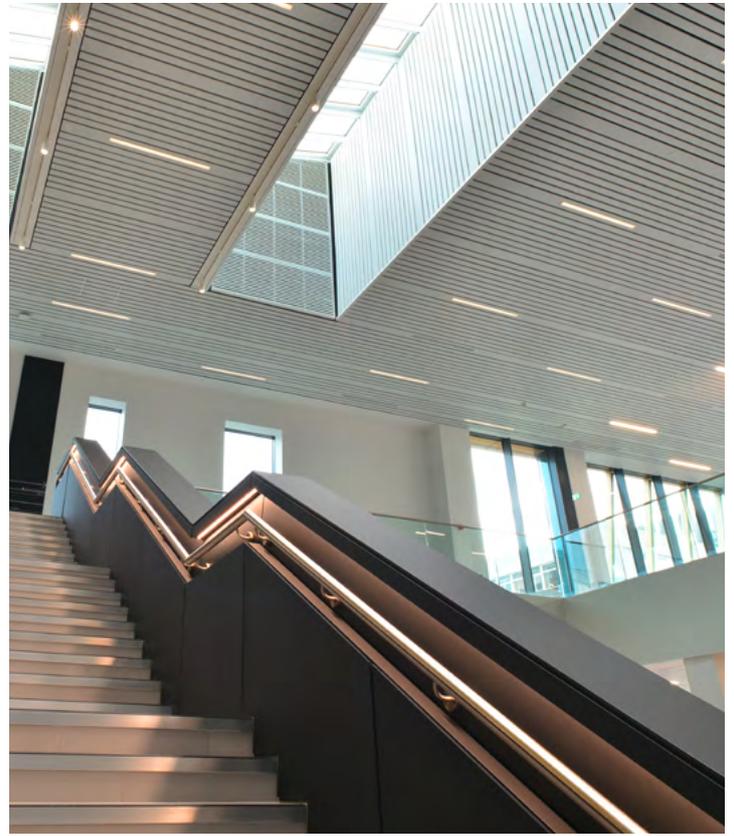
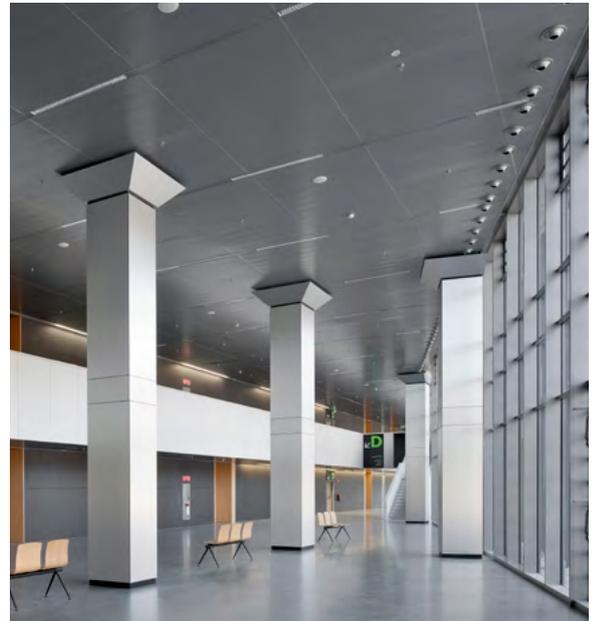
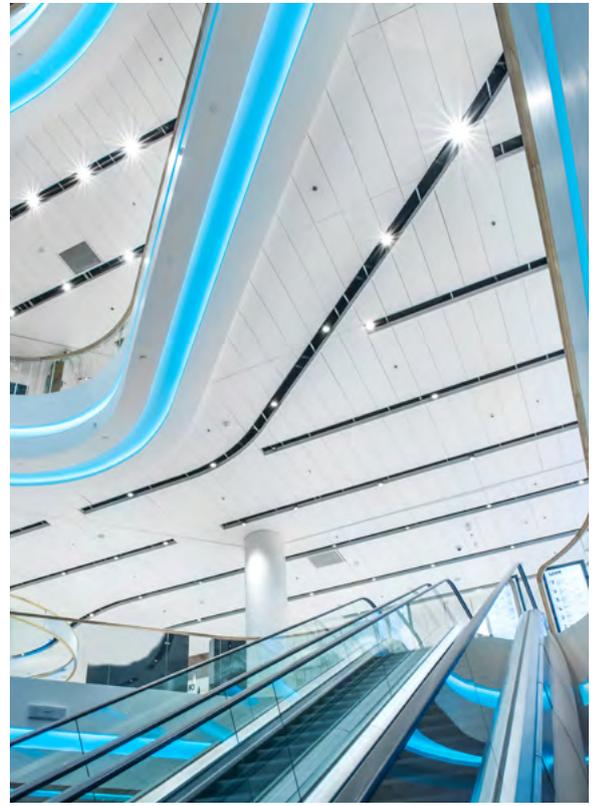




EXPERIENCE
MORE
METAL SOLUTIONS



[Cover] METAL R-Clip (Trumpf, Warsaw, Poland, © Szymon Polański) • [Current page, top left to bottom right] METAL Canopy Concave & Convex (Hôtel de ville, Châteaugiron, France, © StudioVU) • Custom C-Profile METAL Linear Modular System (CTL Collaborative Teaching Laboratory, University of Birmingham, UK, © Simon Miles) • METAL R-Clip (Laboratorios EPAL, Portugal, © Joao Morgado) • METAL Tegular 8, Rg 0701, Global White (Kaspersky Lab, Moscow, Russia, © Sergei Ananiev) • METAL V-P 500, American Walnut wood effects (Blake House, Uxbridge, UK, © Philip Durrant) • METAL R-H 200, trapezoid shaped, Rg 0701, RAL 260 20 20 (J&T Banka Café, Brno, Czech Republic, © Filip Štápal)



[Current page, top left to bottom right] MESH Board, RAL 9005 (Univerexport, Novi Sad, Serbia, © Marko Cvetkovic Cvele) • METAL R-H 200 (TsUM Shopping Mall, Kiev, Ukraine, © Benoy/TsUM) • METAL D-H 700, triangular shaped, Rg 0701, RAL 9010 (Austria Center Vienna, Austria, © Ludwig Schedl) • METAL R-Clip (Justice Center, Zaragoza, Spain, © José Manuel Cutillas) • METAL Q-Clip, Rd 1522, RAL 9003 (Zürich Train Station, Passage Sihlquai, Exit Europaallee, Switzerland, © Foto Lautenschlager) • METAL R-H 200, RAL 1036 (Zürich Train Station, Switzerland, © Rudi Wolf)



METAL & MESH CEILING SOLUTIONS

THINK BOLDER, THINK METAL

When we think bigger, we also think bolder. And one of the best ways to deliver cutting-edge interior design is by installing a contemporary metal ceiling. It helps you create a modern, aesthetically pleasing atmosphere, enhanced by acoustic performances. Knauf Ceiling Solutions Cradle to Cradle Certified® Silver metal range offers an extensive choice of colours and perforation patterns for outstanding visual appearance and effective acoustic comfort.

With our custom metal capabilities, you can create a monolithic look with extra-wide metal panels or a radial effect with trapezoids tailored to fit your space. Faceted, flat, or curved, custom metal ceilings have the unique sizes, shapes, finishes and perforations to make your next project stand out.

SHAPES & SYSTEMS



CEILING EXPOSED GRID

Exposed ceiling systems provide a modular aesthetic and are available in a variety of edge details.



CEILING CONCEALED GRID

Concealed ceiling solutions create a continuous, monolithic look by concealing all of the grid system.



OPEN CELL

Open cell metal tiles mask the plenum and provide 100% accessibility to lighting, ventilation and sprinklers with an homogeneous appearance.



FLOATING CEILING CANOPIES

Open up an almost endless range of dramatic design possibilities with canopies that can be suspended from any soffit.



VERTICAL BAFFLES

Express a new narrative with vertical baffles and create a look to visually tell a story with a solution that will spark your imagination.



FREE SPAN CORRIDOR SOLUTIONS

With easy installation and access to services, wall-to-wall corridor solutions require functionality to handle high traffic and design flexibility to connect key spaces seamlessly.



WALL SOLUTIONS

Walls solutions come in a variety of designs to provide a stunning visual durable enough for high-impact or high traffic areas. Coordinate with ceilings and other interior finishes to create signature spaces.



METAL SOLUTIONS

Introduction	Technical Performances Perforations Acoustic Solutions Colours Wood Effects Performance Coatings	8-11
Design & Performance	Exterior Solutions ■ Q-Clip Exterior, Q-Clip F Exterior, R-Clip Exterior, R-Clip F Exterior	12
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	Linear & Tartan ■ B-H 300, B-L 302, R-L 201, K-H 400	18
Concealed Grid Systems	Clip-In ■ Q-Clip, Q-Clip F, S-Clip F, T-Clip F ■ R-Clip, R-Clip F, T-Clip, K-Clip	20 22
	Hook-On ■ R-H 200, Q-H 100 F, R-H 215, R-H 220, Q-H 120 F	24
Open Cell Systems	Lay-In ■ Cellio	26
Free Span Corridor Systems	Clip-In, Hook-On, Lay-In ■ F-Clip Access, F-H 600, F-H 600 Swing, F-H 600 Swing EI30, F-L 601	28
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Vertical Baffle Systems	Individual ■ METAL Baffle	32
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Floating Canopy Systems	Individual ■ METAL Canopy Concave & Convex ■ METAL Canopy	36 38
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Wall Systems	Individual ■ METAL Canopy Wall Absorber	42
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MESH SOLUTIONS

Introduction	Colours Patterns MESH vs. MESH MT	46-47
Exposed Grid Systems	Lay-In ■ Board, Tegular, MicroLook	48
	Linear & Tartan ■ B-H 300, B-H 300 MT, K-H 400, K-H 400 MT, R-L 201, R-L 201 MT, B-L 302, B-L 302 MT	50
Concealed Grid Systems	Clip-In, Hook-On ■ R-Clip, R-H 200, R-H 200 MT, R-H 215, R-H 215 MT	52
Free Span Corridor Systems	Clip-In, Hook-On, Lay-In ■ F-Clip, F-H 600, F-H 600 MT, F-L 601, F-L 601 MT	54
Floating Canopy Systems	Individual ■ MESH Canopy MT	56
	Grouped ■ MESH D-H 700 MT	58

TECHNICAL INFORMATION

Definition of Technical Performance Icons	60-61
Acoustical Technical Glossary	62-63



METAL SOLUTIONS

There is no limit to what you can achieve with Knauf Ceiling Solutions Vario Design range.

From predefined Lay-In and Clip-In panels to variable module systems, baffles and canopies, all systems are configurable as part of the Vario Design portfolio providing additional technical performances, versatile shapes, dimensions, perforations, colours or acoustic infills to meet the specific design needs of your projects.

Our portfolio of configurable and bespoke metal ceilings and walls gives you the freedom and flexibility to create unique solutions to fit every space.

Faceted, flat or curved, our metal ceilings include unique sizes, shapes, finishes and perforations to make your project stand out from the rest.

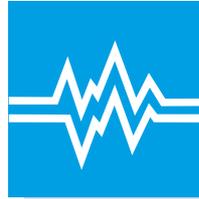
TECHNICAL PERFORMANCES



Fire resistance

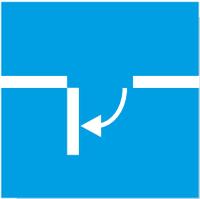
METAL F-H 300 Swing EI30 fire resistant ceiling for corridors.

Tested and classified to meet EI30 (a <-> b), in accordance with EN 13501-2.



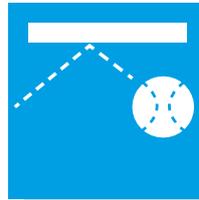
Seismic

Our seismic solutions give the extra security required for seismic resistance. Use our specially designed elements for maximum performance with minimised installation complexity.



Swing-down function

The swing-down function is available to a selection of our metal ceiling solutions. It allows you to quickly swing down the ceiling to grant easy and complete access to the plenum, helping maintain any technical element located there.



Impact resistance

Ceiling panels installed in school corridors, gymnasiums and sports halls must withstand occasional abuse, including surface impact. Our specially adapted METAL R-H 200 impact resistant solution can provide this durability feature.



Clean room

Healthcare, pharmaceuticals, and the food processing industry expect the highest levels of air cleanliness. We designed our clean room metal ceiling tiles to meet these requirements for labs, data centres, and clean room assemblies.



Secure function

This function adds a concealed locking mechanism for metal ceilings, making them tamper-resistant and restricting access to the plenum. They are typically used in judicial and correctional facilities, public areas in general, with a low room height, or psychiatric and juvenile wards.



Exterior

Choose durability's finest from our selection of exterior solutions. These ceiling tiles are tested for wind lift and corrosion resistance. We paired them with grids designed for outdoor use to create a complete system you can rely on to meet the demand of exterior performance.

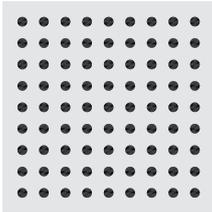


Suitable for chilled ceilings

Choose our chilled ceiling-suitable metal panels to allow for the installation of heating and cooling units, bringing comfort to all occupants with minimal air ventilation requirements.

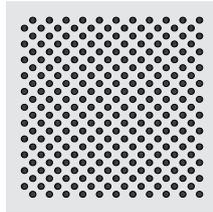
PERFORATIONS

Predefined modules are available in 3 popular perforations.



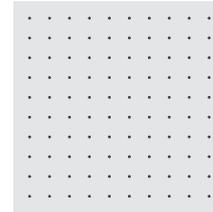
Standard perforation
Rg 2516

Hole diameter: 2.5mm
Open area: 16%



Micro-perforation
Rd 1522

Hole diameter: 1.5mm
Open area: 22%



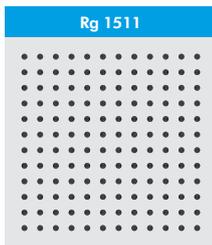
Extramicro perforation
Rg 0701

Hole diameter: 0.7mm
Open area: 1.5%

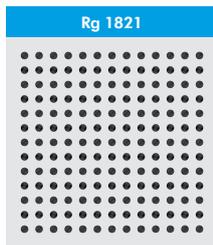
with 5 additional Vario Design Perforations.



Rd 1511



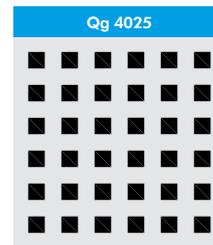
Rg 1511



Rg 1821

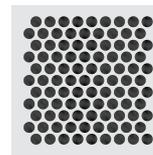
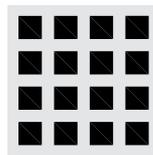
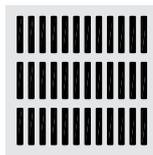
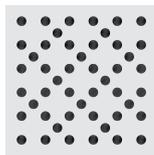
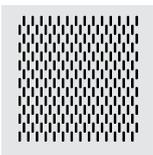


Rg 3013

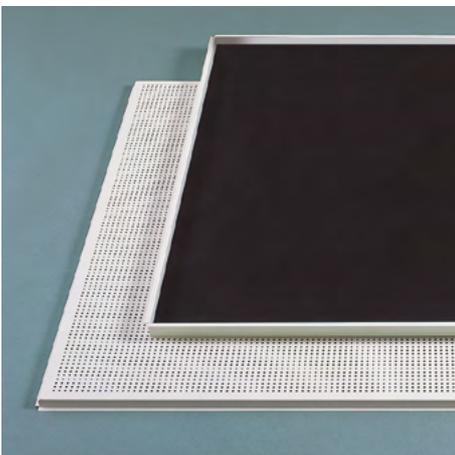


Qg 4025

Knauf Ceiling Solutions extensive range of more than 50 perforations gives a wide choice of aesthetic options: large apertures for specialised uses such as airflow or loudspeakers to slotted perforations for a more linear appearance. Hereunder is a sample of the possibilities at your reach. For more information, please get in touch with us.



ACOUSTIC SOLUTIONS



■ STANDARD BLACK ACOUSTIC FLEECE

Non-woven acoustic fleece provides a cost effective solution for general sound absorption requirements. As a solution that is bonded to the reverse of the metal tile it helps eliminate pattern staining issues that may occur with loose laid solutions.

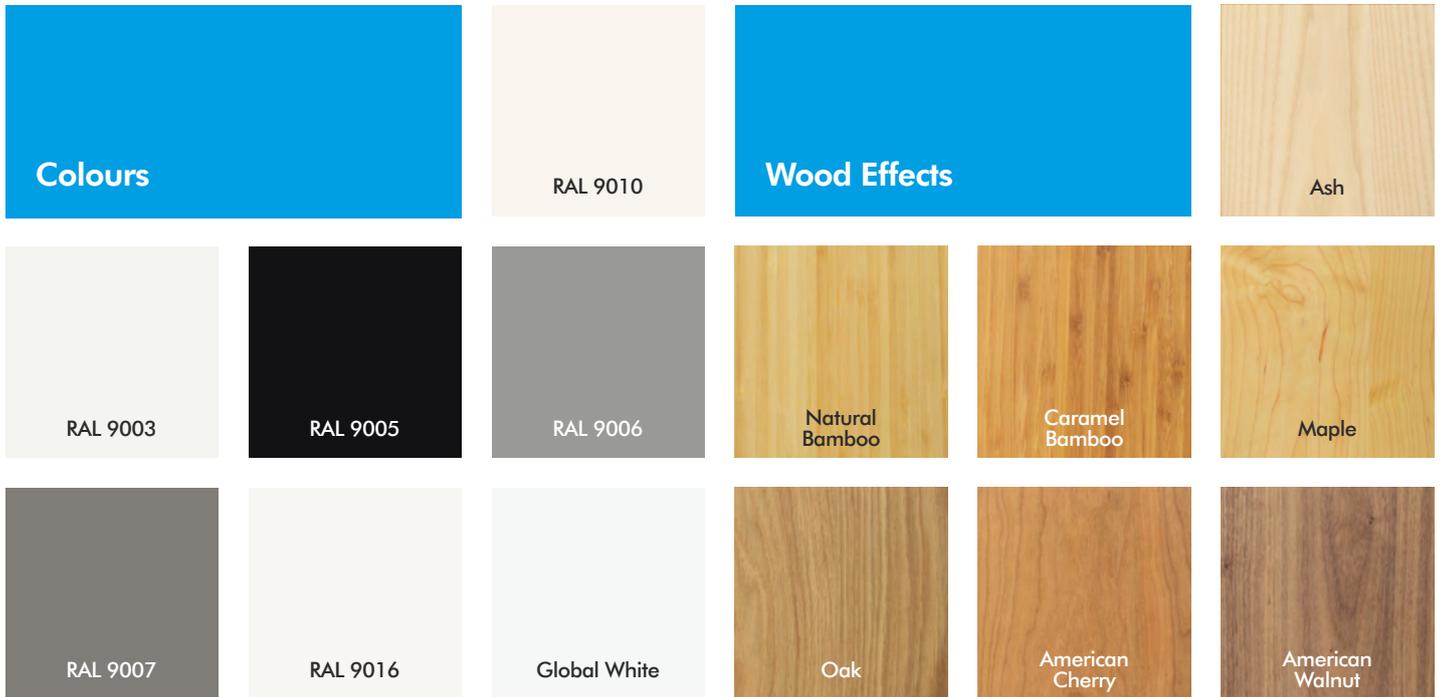
Perforations	Dnfw	α_w	Class
Rg 2516 Standard perforation	18 dB	0.75(L)	C
Rd 1522 Microperforation	16 dB	0.70	C
Rg 0701 Extramicro perforation	21 dB	0.55(L)	D

In addition to the standard acoustic fleece, Knauf Ceiling Solutions offers a range of Vario Design acoustic solutions: Premium OP19 for a high absorption, Premium B15 for a high absorption and attenuation, as well as acoustic pads.

For more information, please get in touch with us.

COLOURS

Knauf Ceiling Solutions standard colour for metal ceilings RAL 9010 (Pure White) and 6 additional Vario Design colours and 7 wood effects.



Further colours and wood effects available on request.

PERFORMANCE COATINGS



METAL BIOGUARD*

Metal BioGuard metal tiles' coating is designed for applications where suspended ceilings are required, and hygiene and cleanliness are of the utmost importance.

Metal BioGuard 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.

Metal BioGuard gives good cleanability and resistance to disinfectants as well as cleanroom performance.

For more information, please get in touch with us.

METAL TRIOGUARD™*

Metal TrioGuard™ dirt-resistant coating protects the ceiling from dirt build-up and colour fading, maintaining its original look for longer. Available in several metal designs.

- Unique dirt-resistant powder-painted finish with a lasting "just like new" appearance.
- Lower maintenance costs and easy to clean.
- Colour stable, keeping its original colour for up to 10 years⁽¹⁾.

⁽¹⁾ Tested using ASTM D4674 Standard Practice for Accelerated Testing for Colour Stability (10-year simulation).

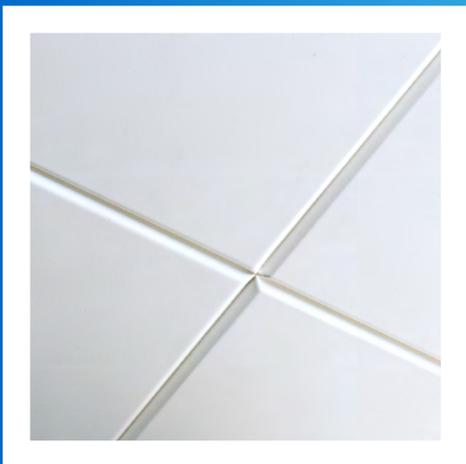
*BioGuard and TrioGuard™ coatings are only available for concealed grid solutions, unperforated, in RAL 9010 or Global White, without acoustic infill or gasket.



Design & Performance Systems

ARMSTRONG METAL Exterior Solutions

Q-Clip Exterior, Q-Clip F Exterior, R-Clip Exterior, R-Clip F Exterior



- **Armstrong METAL Exterior Solutions** are designed to perform in challenging conditions and resist different environmental factors such as high humidity and wind pressure.
- Armstrong METAL Clip-In Exterior Solutions are classified for use in C1, C2 and C3 environments as defined in EN ISO 12944-1 / EN ISO 12944-2.
- Durable exterior powder paint with enhanced UV protection.
- Design options – 4 modules available with custom colours on request.
- Security clips to maintain system integrity when subject to wind suction.
- Fully recyclable.
- Ideal for applications such as car parks, stadiums, transport hubs, and exterior walkways.

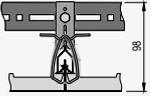
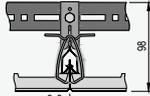
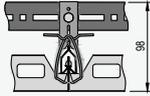
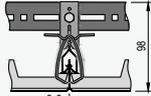


knufceilingssolutions.com

Armstrong
CEILING SOLUTIONS

ARMSTRONG METAL Exterior Solutions

Q-Clip Exterior, Q-Clip F Exterior, R-Clip Exterior, R-Clip F Exterior

Edge details 	METAL Q-Clip Exterior  	METAL Q-Clip F Exterior  	METAL R-Clip Exterior  	METAL R-Clip F Exterior  
System 	U-Profile + DP12 A-Bar			
Modules (mm) 	600 x 600	600 x 600	1200 x 300 1200 x 400 1500 x 400 (further sizes on request)	1200 x 300 1200 x 600
Material & colours 	Post-coated galvanised steel, 0.5 - 0.6mm  RAL 9010 Exterior Powder VD Other colours Custom colours on request. Both side powder-coated for exterior use.			
Weight 	4.6 - 6.6 kg/m ²			Weight varies depending on the edge detail.
Corrosion classes	C1, C2, C3 as per EN ISO 12944-1 / EN ISO 12944-2			
Sustainability	 EN ISO 14001 ≈14%			

[Previous page] METAL R-Clip Exterior (Capital Fort, Sofia, Bulgaria, © Ivan Lambrev)

VD Options with this icon are available from our **Vario Design** range. Some combinations of colours and/or perforations are not available for every product. Products may vary from country to country. Please contact your local sales representative. For further information and legal notice, please visit our website. knaufceilingsolutions.com



Exposed Grid Systems

ARMSTRONG METAL Lay-In Board, Tegular



- **Armstrong METAL Lay-In** is available in a variety of edge details for installation on standard 24mm suspension systems.
- Easily assembled and fully demountable to allow access to the ceiling void.
- Cost effective ceiling solution.
- Additional design options available as part of our **Vario Design** range.
- Used in a variety of ceiling areas: from small service rooms to large commercial office buildings and major transportation terminals.



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Armstrong
CEILING SOLUTIONS

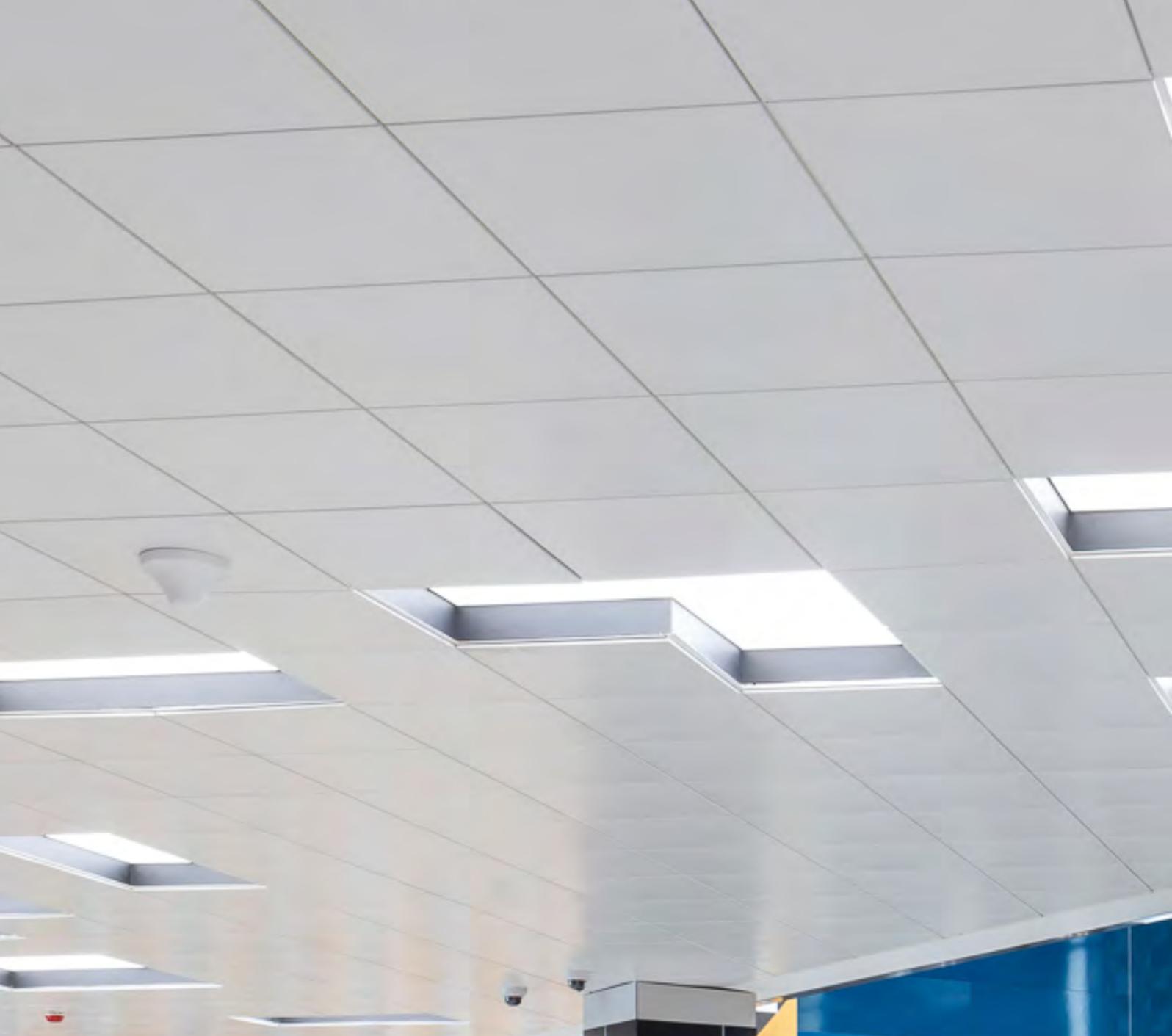
ARMSTRONG METAL Lay-In

Board, Tegular

Edge details		METAL Board <small>vd</small> 	METAL Tegular 2 <small>vd</small> 	METAL Tegular 8 <small>vd</small> 	METAL Tegular 11F <small>vd</small> 	METAL Tegular 16 <small>vd</small> 								
System		Exposed demountable - System C (24mm or 15mm T-Grid, butt-cut)	Exposed demountable - System C (24mm T-Grid, butt-cut)	Exposed demountable - System C (24mm T-Grid)	Exposed demountable - System C (24mm T-Grid)	Exposed demountable - System C (24mm T-Grid)								
Modules (mm)		600 x 600 625 x 625 1200 x 600	600 x 600 625 x 625	500 x 500 600 x 600 675 x 675 1200 x 300 1200 x 600	600 x 600 625 x 625 1200 x 600	500 x 500 600 x 600 675 x 675 750 x 750								
Material & perforations		Post-coated galvanised steel, 0.5 - 0.6mm												
		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%									
		vd Other perforations												
		Rd 1511	Rg 1511	Rg 1821	Rg 3013	Qg 4025								
Colours		RAL 9010												
		vd Other colours												
		RAL 9003	RAL 9005	RAL 9006	RAL 9007	RAL 9016								
		vd Wood effects* <small>*Tiles only.</small>												
		Global White	Ash	Natural Bamboo	Caramel Bamboo	Maple								
			Oak	American Cherry	American Walnut									
Weight		Unperforated 3.9 - 4.9 kg/m ²	Rg 2516 3.3 - 4.3 kg/m ²	Rd 1522 3.1 - 4.1 kg/m ²	Rg 0701 3.9 - 4.9 kg/m ²	Weight varies depending on the edge detail and acoustic infill.								
Acoustics		EN ISO 354								EN ISO 10848-2	EN ISO 10140-2			
			α_w^*	Class	Frequency (Hz) α_p					NRC**	$D_{n,f,w}^{***}$	R_w^{***}	CAC****	
					125	250	500	1000	2000	4000				
		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			
Fire reaction		Euroclass A1 (Unperforated / Perforated + No Infill) Euroclass A2-s2, d0 (Perforated + Acoustic Fleece) as per EN 13501-1			RUS KM1 (G1, V1, D1, T1) as per 123-FZ			Values applicable for RAL 9010 only.						
Light reflectance		Unperforated 85%	Rg 2516 70%	Rd 1522 65%	Rg 0701 80%	Values applicable for RAL 9010 only.								
Humidity resistance		90% RH												
Indoor air quality		A+	E1											
Cleanability														
Sustainability		≈14%	Silver*											
Design options														

[Previous page] METAL Tegular 8, Rd 1522 (Bari Airport, Italy, ©Filippo di Pretoro)

vd Options with this icon are available from our **Vario Design** range. Some combinations of colours and/or perforations are not available for every product. Products may vary from country to country. Please contact your local sales representative. For further information and legal notice, please visit our website. knaufceilingsolutions.com



Exposed Grid Systems

ARMSTRONG METAL Lay-In

MicroLook, Axal Vector



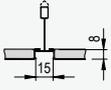
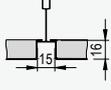
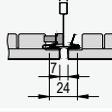
- **Armstrong METAL MicroLook** is available in a variety of edge details for installation on standard 15mm suspension systems.
- Easily assembled and fully demountable to allow access to the ceiling void.
- **Armstrong METAL Axal Vector** is an easy to install and flexible system which offers a diversity of design and applications, and can be installed with a very low void depth.
- Semi-concealed solution with 7mm reveal detailing for a monolithic effect.
- Downwardly accessible and easy to install/remove without tools.
- Additional design options available as part of our **Vario Design** range.
- Used in a variety of ceiling areas: from small service rooms to large commercial office buildings and major transportation terminals.



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Armstrong
CEILING SOLUTIONS

Exposed Grid Systems
ARMSTRONG METAL Lay-In
 MicroLook, Axal Vector

Edge details		METAL MicroLook 8 	METAL MicroLook 16 	METAL Axal Vector 									
													
System		Exposed demountable - System C (15mm T-Grid)	Exposed demountable - System C (15mm T-Grid)	Semi-concealed demountable - System C (24mm T-Grid)									
Modules (mm)		500 x 500 600 x 600 675 x 675 750 x 750 1200 x 300 1200 x 600	500 x 500 600 x 600 675 x 675 750 x 750	500 x 500 600 x 300 600 x 600 675 x 675 750 x 750									
Material & perforations		Post-coated galvanised steel, 0.5 - 0.6mm											
		 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%									
	vd Other perforations												
	 Rd 1511	 Rg 1511	 Rg 1821	 Rg 3013  Qg 4025									
Colours		RAL 9010											
	vd Other colours												
	 RAL 9003	 RAL 9005	 RAL 9006	 RAL 9007									
	 RAL 9016	 Global White	vd Wood effects* <small>*Tiles only.</small>										
		 Ash	 Natural Bamboo	 Caramel Bamboo									
		 Maple	 Oak	 American Cherry									
		 American Walnut											
Weight		Unperforated 4.0 - 5.5 kg/m ²	Rg 2516 3.4 - 4.8 kg/m ²	Rd 1522 3.2 - 4.5 kg/m ²									
				Rg 0701 4.0 - 5.5 kg/m ²									
				<small>Weight varies depending on the edge detail and acoustic infill.</small>									
Acoustics		EN ISO 354								EN ISO 10848-2	EN ISO 10140-2		
		α_w^*	Class	Frequency (Hz) α_p						NRC**	$D_{n,f,w}^{***}$	R_w^{***}	CAC****
				125	250	500	1000	2000	4000				
		Unperforated	NC	0.25	0.15	0.05	0.05	0.10	0.10	0.10	44 dB	19 dB	-
		Rg 2516 + Fleece	C	0.35	0.80	0.95	0.70	0.75	0.75	0.80	18 dB	8 dB	-
		Rd 1522 + Fleece	C	0.30	0.65	0.90	0.65	0.70	0.75	0.70	16 dB	6 dB	16 dB
		Rg 0701 + Fleece	D	0.45	0.70	0.70	0.55	0.55	0.45	0.65	21 dB	10 dB	22 dB
		<small>*as per EN ISO 11654</small>		<small>**as per ASTM C 423-01</small>			<small>***as per EN ISO 717-1</small>			<small>****as per ASTM E 413-10</small>			
Fire reaction		Euroclass A1 (Unperforated / Perforated + No Infill) Euroclass A2-s2, d0 (Perforated + Acoustic Fleece) as per EN 13501-1		RUS KM1 (G1, V1, D1, T1) as per 123-FZ				<small>Values applicable for RAL 9010 only.</small>					
Light reflectance		Unperforated 85%	Rg 2516 70%	Rd 1522 65%	Rg 0701 80%	<small>Values applicable for RAL 9010 only.</small>							
Humidity resistance		90% RH											
Indoor air quality		 A+	 E1										
Cleanability							<small>(TrioGuard™ only)</small>						
Sustainability													
		 =14%	 Silver*	<small>*Value applicable for RAL 9010 only.</small>									
Design options													
	Dimensions	Colours	Perforations	Acoustic Infills	Cut-Outs	Secure Function	METAL Axal Vector	METAL Axal Vector	TrioGuard™				

[Previous page] METAL Axal Vector (Sheremetyevo Airport, Moscow, Russia, ©Mikhail Feller, Stoppamedia)

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Exposed Grid Systems

ARMSTRONG METAL Linear & Tartan

B-H 300, B-L 302, R-L 201, K-H 400



- **Armstrong METAL Linear** combines functionality with stylish simplicity and versatility by creating a linear technical zone.
 - **METAL B-H 300:** 'Easy' and 'Hook' hinge-down function, 'Swing' swing-down function for easy access to the ceiling void.
 - C-Profiles in different dimensions with optional cut-outs for service integration on request.
 - Easily installed and removed.
 - Available in trapezoidal shapes for radial ceilings on request.
 - Fully configurable large size panels.
 - Additional design options available as part of our **Vario Design** range.
 - Ideal for large spaces and office environments.
- **Armstrong METAL Tartan** is a solution for square and/or rectangular room partitioning.
 - **METAL K-H 400:** 'Easy' and 'Hook' hinge-down function, 'Swing' swing-down function for easy access to the ceiling void.
 - Crossing boxes and C-Profiles in different dimensions with optional cut-outs for service integration on request.



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Armstrong
CEILING SOLUTIONS

ARMSTRONG METAL Linear & Tartan

B-H 300, B-L 302, R-L 201, K-H 400

Edge details		METAL B-H 300 <small>vd</small> [Linear layout] 	METAL B-L 302 <small>vd</small> [Linear layout] 	METAL R-L 201 <small>vd</small> [Linear layout] 	METAL K-H 400 <small>vd</small> [Tartan layout] 	[Linear layout]	[Tartan layout]						
System		U-Profile + C-Profile 100mm*	U-Profile + Bandrastrer 100mm	U-Profile + L-Profile	Crossing Box + C-Profile 100mm*	*Further widths on request.							
Dimensions (mm)		Panel length: 600 - 3300 Panel width: 247 - 1350 Max size (m ²): 2	Panel length: 600 - 3300 Panel width: 247 - 1350 Max size (m ²): 2	Panel length: 600 - 3300 Panel width: 247 - 1350 Max size (m ²): 2	Panel length: 600 - 2850 Panel width: 247 - 1350 Max size (m ²): 2								
Material & perforations		Post-coated galvanised steel, 0.6 - 0.7mm											
		Unperforated	Standard perforation Rg 2516 ∅: 2.5mm Open area: 16%	Micro-perforation Rd 1522 ∅: 1.5mm Open area: 22%	Extramicro perforation Rg 0701 ∅: 0.7mm Open area: 1.5%								
		Other perforations											
		Rd 1511	Rg 1511	Rg 1821	Rg 3013	Qg 4025							
Colours		RAL 9010	Other colours										
		RAL 9003	RAL 9005	RAL 9006	RAL 9007	RAL 9016	Global White						
		Wood effects											
		Ash	Natural Bamboo	Caramel Bamboo	Maple	Oak	American Cherry						
		American Walnut											
Weight		Unperforated 5.7 - 8.9 kg/m ²	Rg 2516 5.0 - 8.2 kg/m ²	Rd 1522 4.7 - 7.9 kg/m ²	Rg 0701 5.7 - 8.9 kg/m ²	Weight varies depending on the edge detail and acoustic infill.							
Acoustics		EN ISO 354											
				Frequency (Hz) α _p						EN ISO 10848-2	EN ISO 10140-2		
		α _w *	Class	125	250	500	1000	2000	4000	NRC**	D _{n,t,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				
Fire reaction		Euroclass A1 (Unperforated / Perforated + No Infill + No Gasket) Euroclass A2-s2, d0 (Perforated + Acoustic Fleece + No Gasket) Euroclass B-s1, d0 (Perforated + Acoustic Fleece + Gasket) as per EN 13501-1			RUS KM1 (G1, V1, D1, T1) as per 123-FZ				Values applicable for RAL 9010 only.				
Light reflectance		Unperforated 85%	Rg 2516 70%	Rd 1522 65%	Rg 0701 80%	Values applicable for RAL 9010 only.							
Humidity resistance		90% RH											
Indoor air quality		A+ (only without gasket)	E1										
Cleanability													
Sustainability		≈14%	Silver*	*Value applicable for RAL 9010 only.									
Design options		Dimensions	Colours	Perforations	Shapes	Acoustic Infills	Cut-Outs	Suitable for Chilled Ceilings	BioGuard	Swing-Down Function	Seismic		

[Previous page] METAL B-H 300, RAL 9006 (Prime Corporate Center, Warsaw, Poland, ©Szymon Polański)

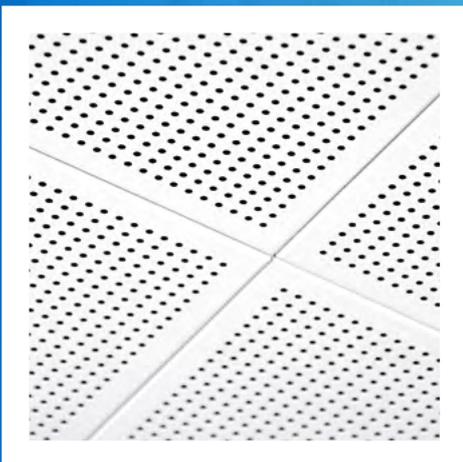
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Concealed Grid Systems

ARMSTRONG METAL Clip-In

Q-Clip, Q-Clip F, S-Clip F, T-Clip F



- **Armstrong METAL Clip-In** provides a versatile and sleek design in various perforations and edge details for installation using the U-Profile and DP12 A-Bar suspension system (C-Channel and Spring-T for METAL T-Clip F).
- Concealed grid for a monolithic effect.
- Ease of installation (alignment) and fully demountable.
- Maintenance-friendly system.
- METAL Q-Clip / METAL Q-Clip F available with an optional 'Window' swing-down function.
- METAL S-Clip F with integrated swing-down function.
- METAL Q-Clip / METAL Q-Clip F / METAL T-Clip F tiles available with an optional lock function.
- Additional design options available as part of our **Vario Design** range.
- Used in a variety of ceiling areas: from small service rooms to large commercial office buildings and major transportation terminals.



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Armstrong
CEILING SOLUTIONS

ARMSTRONG METAL Clip-In

Q-Clip, Q-Clip F, S-Clip F, T-Clip F

Edge details		METAL Q-Clip 	METAL Q-Clip F 	METAL S-Clip F 	METAL T-Clip F 								
System		U-Profile + DP12 A-Bar	U-Profile + DP12 A-Bar	U-Profile + DP12 A-Bar	C-Channel + Spring-T								
Modules (mm)		600 x 600 625 x 625	500 x 500 600 x 300 625 x 625 600 x 600	625 x 312.5 625 x 625	600 x 600 900 x 300 1200 x 300 1500 x 300								
Material & perforations		Post-coated galvanised steel, 0.5 - 0.6mm											
		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%								
		Other perforations											
		Rd 1511	Rg 1511	Rg 1821	Rg 3013								
		Qg 4025											
Colours		RAL 9010	Other colours										
		RAL 9003	RAL 9005	RAL 9006	RAL 9007								
		Global White	Wood effects										
		Ash	Natural Bamboo	Caramel Bamboo	Maple								
		Oak	American Cherry	American Walnut									
Weight		Unperforated 4.6 - 5.5 kg/m ²	Rg 2516 4.0 - 4.8 kg/m ²	Rd 1522 3.7 - 4.5 kg/m ²	Rg 0701 4.6 - 5.5 kg/m ²								
					<i>Weight varies depending on the edge detail and acoustic infill.</i>								
Acoustics		EN ISO 354								EN ISO 10848-2	EN ISO 10140-2		
		α_w^*	Class	Frequency (Hz) α_p						NRC**	$D_{n,fw}^{***}$	R_w^{***}	CAC****
				125	250	500	1000	2000	4000				
		Unperforated	NC	0.25	0.15	0.05	0.05	0.10	0.10	0.10	44 dB	19 dB	-
		Rg 2516 + Fleece	C	0.35	0.80	0.95	0.70	0.75	0.75	0.80	18 dB	8 dB	-
		Rd 1522 + Fleece	C	0.30	0.65	0.90	0.65	0.70	0.75	0.70	16 dB	6 dB	16 dB
		Rg 0701 + Fleece	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			
Fire reaction		Euroclass A1 (Unperforated / Perforated + No Infill) Euroclass A2-s2, d0 (Perforated + Acoustic Fleece) as per EN 13501-1			RUS KM1 (G1, V1, D1, T1) as per 123-FZ			<i>Values applicable for RAL 9010 only.</i>					
Light reflectance		Unperforated 85%	Rg 2516 70%	Rd 1522 65%	Rg 0701 80%	<i>Values applicable for RAL 9010 only.</i>							
Humidity resistance		90% RH											
Indoor air quality		A+	E1										
Cleanability			<i>(TrioGuard™ only)</i>										
Sustainability		≈14%	Silver*										
		<i>*Value applicable for RAL 9010 only.</i>											
Design options		Colours	Perforations	Acoustic Infills	Cut-Outs	Swing-Down Function	Secure Function	Clean Room	TrioGuard™				

[Previous page] METAL Q-Clip, Rd 1522, RAL 9003 (Zürich Train Station, Passage Sihlquai, Exit Europaallee, Switzerland, © Foto Lautenschlager)

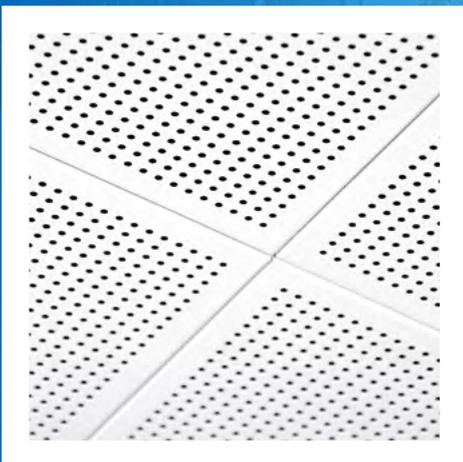
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Concealed Grid Systems

ARMSTRONG METAL Clip-In

R-Clip, R-Clip F, T-Clip, K-Clip



- **Armstrong METAL Clip-In** provides a versatile and simple design with excellent acoustic performance benefits.
- Concealed grid for a monolithic effect.
- Ease of installation (alignment), fully demountable and maintenance-friendly system.
- Easy access to the ceiling void.
- METAL R-Clip / METAL R-Clip F available with an optional 'Window' swing-down function.
- METAL R-Clip / METAL R-Clip F panels available with an optional lock function.
- **Armstrong METAL K-Clip** is a cost effective solution, simulating a tartan layout by using METAL Q-Clip tiles or METAL R-Clip panels in combination with exposed crossing boxes and strips.
- Crossing boxes and strips available in different sizes with optional cut-outs for service integration on request.
- Additional design options available as part of our **Vario Design** range.
- Ideal for breaking up large spaces and office environments.



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Armstrong
CEILING SOLUTIONS

ARMSTRONG METAL Clip-In

R-Clip, R-Clip F, T-Clip, K-Clip

Edge details	 METAL R-Clip <small>vd</small>	 METAL R-Clip F <small>vd</small>	 METAL T-Clip <small>vd</small>	 METAL K-Clip <small>vd</small> [Tartan layout]	 with Q-Clip	 with R-Clip							
System	U-Profile + DP12 A-Bar	U-Profile + DP12 A-Bar	C-Channel + Spring-T	U-Profile + DP12 A-Bar Visible Crossing Box + Strips									
Dimensions/ Modules (mm)	Panel length: 600 - 2500 Panel width: 250 - 600 Max size (m ²): 1.5	1200 x 300 1200 x 600 1800 x 400	Panel length: 500 - 2500 Panel width: 300 - 400 - 500 - 600 Max size (m ²): 1.5	With METAL Q-Clip tiles: 600 x 600 625 x 625	With METAL R-Clip panels: Panel length: 600 - 1800 Panel width: 300 - 600 Max size (m ²): 1.5								
Material & perforations	Post-coated galvanised steel, 0.5 - 0.7mm												
	 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%									
	vd Other perforations												
	 Rd 1511	 Rg 1511	 Rg 1821	 Rg 3013	 Qg 4025								
Colours	 RAL 9010												
	vd Other colours												
	 RAL 9003	 RAL 9005	 RAL 9006	 RAL 9007	 RAL 9016	 Global White							
	vd Wood effects												
	 Ash	 Natural Bamboo	 Caramel Bamboo	 Maple	 Oak	 American Cherry							
	 American Walnut												
Weight	Unperforated 4.6 - 7.8 kg/m ²	Rg 2516 4.0 - 6.6 kg/m ²	Rd 1522 3.7 - 6.4 kg/m ²	Rg 0701 4.6 - 7.3 kg/m ²	Weight varies depending on the edge detail and acoustic infill.								
Acoustics	EN ISO 354												
										EN ISO 10848-2	EN ISO 10140-2		
		α_w^*	Class	Frequency (Hz) α_p						NRC**	$D_{n,w}^{***}$	R_w^{***}	CAC****
				125	250	500	1000	2000	4000				
	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			
Fire reaction	Euroclass A1 (Unperforated / Perforated + No Infill) Euroclass A2-s2, d0 (Perforated + Acoustic Fleece) as per EN 13501-1			RUS KM1 (G1, V1, D1, T1) as per 123-FZ				Values applicable for RAL 9010 only.					
Light reflectance	Unperforated 85%	Rg 2516 70%	Rd 1522 65%	Rg 0701 80%	Values applicable for RAL 9010 only.								
Humidity resistance	90% RH												
Indoor air quality	 A+	 E1											
Cleanability													
Sustainability	 EN ISO 14021 ≈14%	 Certified Silver*											
	*Value applicable for RAL 9010 only.												
Design options	 Dimensions	 Colours	 Perforations	 Acoustic Infills	 Cut-Outs	 Swing-Down Function	 Secure Function	 Clean Room					

[Previous page] METAL R-Clip, Rd 1522, RAL 9010 (Mennica, Warsaw, Poland, ©Szymon Polański)

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Concealed Grid Systems

ARMSTRONG METAL Hook-On

R-H 200, Q-H 100 F, R-H 215, R-H 220, Q-H 120 F



- **Armstrong METAL Hook-On** provides a versatile and simple design with excellent acoustic performance benefits.
- Concealed grid for a monolithic effect.
- Excellent acoustic performance.
- Ease of installation (alignment) and fully demountable.
- Easy access to the ceiling void.
- Maintenance friendly system.
- **METAL R-H 200** is available in trapezoidal shapes for radial ceilings.
- Fully configurable large size panels and cost effective square tile alternatives available.
- Additional design options available as part of our **Vario Design** range.
- Used in a variety of ceiling areas: from small service rooms to large commercial office buildings and major transportation terminals.



ARMSTRONG METAL Hook-On

R-H 200, Q-H 100 F, R-H 215, R-H 220, Q-H 120 F

Edge details		METAL R-H 200	METAL Q-H 100 F	METAL R-H 215	METAL R-H 220	METAL Q-H 120 F								
System		U-Profile + J-Bar	U-Profile + J-Bar	U-Profile + H-Profile 35mm	U-Profile + H-Profile 28mm	U-Profile + H-Profile 28mm								
Dimensions/ Modules (mm)		Panel length: 600 - 3300 Panel width: 247 - 1350 Max size (m ²): 2	600 x 600 625 x 625	Panel length: 600 - 3300 Panel width: 247 - 1350 Max size (m ²): 2	Panel length: 600 - 3300 Panel width: 247 - 1350 Max size (m ²): 2	625 x 625								
Material & perforations		Post-coated galvanised steel, 0.5 - 0.6mm												
		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%									
		vd Other perforations												
		Rd 1511	Rg 1511	Rg 1821	Rg 3013	Qg 4025								
Colours		RAL 9010	vd Other colours				vd Wood effects							
		RAL 9003	RAL 9005	RAL 9006	RAL 9007	RAL 9016	Global White							
		Ash	Natural Bamboo	Caramel Bamboo	Maple	Oak	American Cherry American Walnut							
Weight		Unperforated 4.5 - 8.1 kg/m ²	Rg 2516 3.9 - 7.3 kg/m ²	Rd 1522 3.7 - 7.1 kg/m ²	Rg 0701 4.5 - 8.0 kg/m ²	Weight varies depending on the edge detail and acoustic infill.								
Acoustics		EN ISO 354								EN ISO 10848-2	EN ISO 10140-2			
		α_w^*	Class	Frequency (Hz) α_p^{**}						NRC ^{**}	D _{n,tw} ^{***}	R _w ^{***}	CAC ^{****}	
				125	250	500	1000	2000	4000					
		Unperforated	NC	0.25	0.15	0.05	0.05	0.10	0.10	0.10	44 dB	19 dB	-	
		Rg 2516 + Fleece	C	0.35	0.80	0.95	0.70	0.75	0.75	0.80	18 dB	8 dB	-	
		Rd 1522 + Fleece	C	0.30	0.65	0.90	0.65	0.70	0.75	0.70	16 dB	6 dB	16 dB	
		Rg 0701 + Fleece	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	
Fire reaction		Euroclass A1 (Unperforated / Perforated + No Infill + No Gasket; except METAL Q-H 100 F) Euroclass A2-s2, d0 (Perforated + Acoustic Fleece + No Gasket; except METAL Q-H 100 F) Euroclass B-s1, d0 (Perforated + Acoustic Fleece + Gasket; except METAL Q-H 120 F) as per EN 13501-1				RUS KM1 (G1, V1, D1, T1) as per 123-FZ				Values applicable for RAL 9010 only.				
Light reflectance		Unperforated 85%	Rg 2516 70%	Rd 1522 65%	Rg 0701 80%				Values applicable for RAL 9010 only.					
Humidity resistance		90% RH												
Indoor air quality														
		A+ (only without gasket)	E1											
Cleanability														
		(TrioGuard™ only)												
Sustainability														
		≈14%	Silver*											
Design options														
		Dimensions	Colours	Perforations	Acoustic Infills	Cut-Outs	BioGuard	METAL R-H 200 Seismic, METAL R-H 215 Seismic	METAL R-H 200 Impact Resistance	METAL R-H 200	METAL R-H 200, METAL Q-H 100 F, METAL R-H 215, METAL R-H 220	METAL R-H 200, METAL R-H 215	METAL R-H 200	
								Seismic	Impact Resistance	Suitable for Chilled Ceilings	Secure Function	TrioGuard™	Shape	

[Previous page] METAL R-H 200 (Rathaus St. Gallen, Switzerland, © Beat Bühler)

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Open Cell Systems
ARMSTRONG METAL Lay-In
Cellio

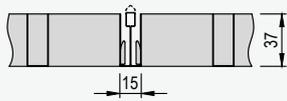
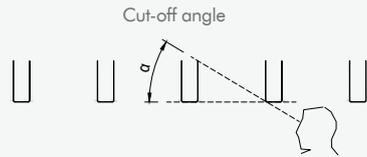
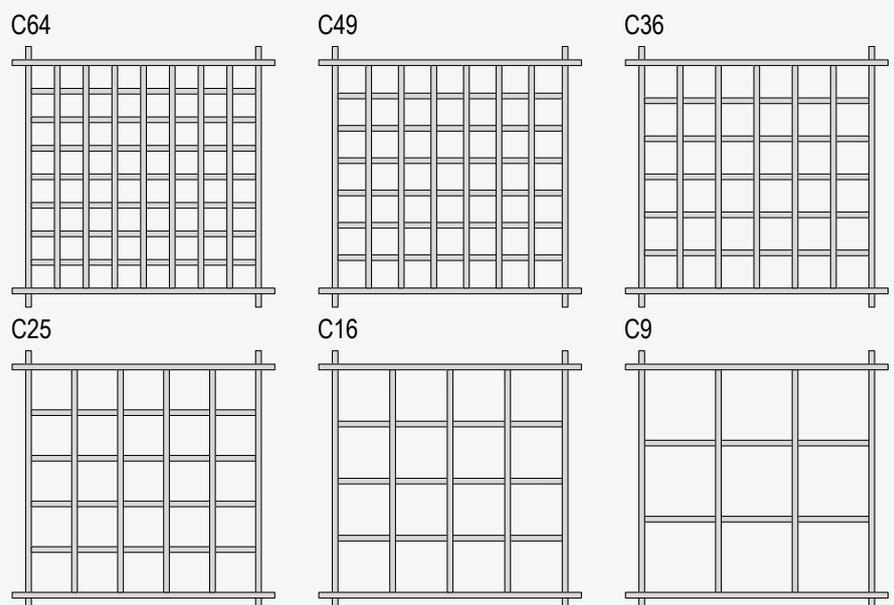


- **Armstrong METAL Cellio** durable open cell metal tiles that mask the plenum provide 100% accessibility to lighting, ventilation and sprinklers with an homogeneous appearance.
- Made of pre-coated galvanised steel 0,3mm.
- Lay-In system is fast and easy to install in standard 15mm exposed grid.
- Ideal for shops, supermarkets, shopping malls, entrance areas, airports, railway stations and showrooms.



ARMSTRONG METAL Lay-In

Cellio

Edge details	  <p>METAL Cellio VDO</p>																												
System	Exposed demountable - System C (15mm T-Grid, butt-cut)																												
Modules (mm)	600 x 600																												
Material & design	Pre-coated galvanised steel, 0,3mm																												
	<table border="1"> <thead> <tr> <th></th> <th>Cellio C64</th> <th>Cellio C49</th> <th>Cellio C36</th> <th>Cellio C25</th> <th>Cellio C16</th> <th>Cellio C9</th> </tr> </thead> <tbody> <tr> <td>Cell module size:</td> <td>75 x 75 x 37mm</td> <td>86 x 86 x 37mm</td> <td>100 x 100 x 37mm</td> <td>120 x 120 x 37mm</td> <td>150 x 150 x 37mm</td> <td>200 x 200 x 37mm</td> </tr> <tr> <td>Open area:</td> <td>64%</td> <td>68%</td> <td>72%</td> <td>76%</td> <td>81%</td> <td>85%</td> </tr> <tr> <td>Cut off angle:</td> <td>31°</td> <td>27°</td> <td>23°</td> <td>19°</td> <td>15°</td> <td>11°</td> </tr> </tbody> </table> 		Cellio C64	Cellio C49	Cellio C36	Cellio C25	Cellio C16	Cellio C9	Cell module size:	75 x 75 x 37mm	86 x 86 x 37mm	100 x 100 x 37mm	120 x 120 x 37mm	150 x 150 x 37mm	200 x 200 x 37mm	Open area:	64%	68%	72%	76%	81%	85%	Cut off angle:	31°	27°	23°	19°	15°	11°
	Cellio C64	Cellio C49	Cellio C36	Cellio C25	Cellio C16	Cellio C9																							
Cell module size:	75 x 75 x 37mm	86 x 86 x 37mm	100 x 100 x 37mm	120 x 120 x 37mm	150 x 150 x 37mm	200 x 200 x 37mm																							
Open area:	64%	68%	72%	76%	81%	85%																							
Cut off angle:	31°	27°	23°	19°	15°	11°																							
Colours	 Global White																												
	<p>Other Colours</p>   <p>RAL 9005 RAL 9006</p>																												
Weight	<table border="1"> <tr> <td>C64 5.3 kg/m²</td> <td>C49 4.6 kg/m²</td> <td>C36 3.9 kg/m²</td> <td>C25 3.3 kg/m²</td> <td>C16 2.6 kg/m²</td> <td>C9 2.2 kg/m²</td> </tr> </table>	C64 5.3 kg/m ²	C49 4.6 kg/m ²	C36 3.9 kg/m ²	C25 3.3 kg/m ²	C16 2.6 kg/m ²	C9 2.2 kg/m ²																						
C64 5.3 kg/m ²	C49 4.6 kg/m ²	C36 3.9 kg/m ²	C25 3.3 kg/m ²	C16 2.6 kg/m ²	C9 2.2 kg/m ²																								
Fire reaction	Euroclass A1 as per EN 13501-1																												
Humidity resistance	90% RH																												
Indoor air quality	 A+																												
Cleanability																													
Sustainability	 ≈14%																												

[Previous page] METAL Cellio C64 (Nikola Tesla Airport, Belgrade, Serbia, ©Sandro Lendler)

vd Options with this icon are available from our **Vario Design** range. Some combinations of colours and/or perforations are not available for every product. Products may vary from country to country. Please contact your local sales representative. For further information and legal notice, please visit our website. knaufceilingsolutions.com



Free Span Corridor Systems

ARMSTRONG METAL Clip-In, Hook-On, Lay-In

F-Clip Access, F-H 600, F-H 600 Swing, F-H 600 Swing EI30, F-L 601



- **Armstrong METAL Corridor** is a rectangular panel free-span solution that simply spans between the walls, allowing for easy installation and access to services.
- **METAL F-L 601** with various perimeter trim solutions for a clean aesthetic finish.
- Adjustable perimeter shadow gap detailing for METAL F-Clip Access and METAL F-H 600.
- Easy, quick access to ceiling void due to swing-down functions (METAL F-Clip Access and METAL F-H 600 Swing).
- **METAL F-H 600 Swing EI30** fire resistant ceiling (a <-> b) with an additional layer of Knauf plasterboard fixed to the back of the panels and an intumescent tape sealing the gaps.
- **METAL F-Clip Access** panels available with an optional lock function.
- Fully configurable large size panels.
- Additional design options available as part of our **Vario Design** range.
- Used in corridors where the panels simply span between walls.

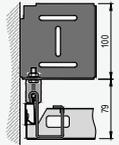
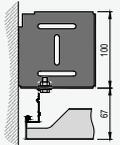
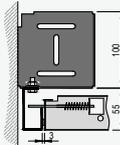
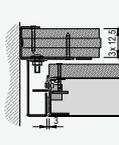
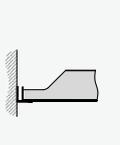


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Armstrong
CEILING SOLUTIONS

ARMSTRONG METAL Clip-In, Hook-On, Lay-In

F-Clip Access, F-H 600, F-H 600 Swing, F-H 600 Swing EI30, F-L 601

Edge details		METAL F-Clip Access 	METAL F-H 600 	METAL F-H 600 Swing 	METAL F-H 600 Swing EI30 	METAL F-L 601 																																																																																										
																																																																																																
System		Wall Bracket + Half DP12 A-Bar (optional DP12 A-Bar)	Wall Bracket + J-Bar	Wall Bracket + G-Profile	Wall Profile EI30 + G-Profile EI30	Perimeter Trim																																																																																										
Dimensions (mm)		Panel length: 600 - 2500 Panel width: 250 - 600 Max size (m ²): 1.5	Panel length: 600 - 3300 Panel width: 247 - 1350 Max size (m ²): 2	Panel length: 600 - 3300 Panel width: 247 - 1350 Max size (m ²): 2	Panel length: 600 - 2700 Panel width: 247 - 397	Panel length: 600 - 3300 Panel width: 247 - 1350 Max size (m ²): 2																																																																																										
Material & perforations		Post-coated galvanised steel, 0.6 - 0.7mm																																																																																														
		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%																																																																																								
	Other perforations																																																																																															
		Rd 1511		Rg 1511		Rg 1821		Rg 3013		Qg 4025																																																																																						
Colours			RAL 9010		Other colours																																																																																											
								Wood effects																																																																																								
Weight		Unperforated 5.7 - 7.4 kg/m ²	Rg 2516 5.0 - 6.6 kg/m ²	Rd 1522 4.7 - 6.4 kg/m ²	Rg 0701 5.7 - 7.3 kg/m ²	Weight varies depending on the edge detail and acoustic infill.																																																																																										
Acoustics		<table border="1"> <thead> <tr> <th rowspan="3"></th> <th colspan="9">EN ISO 354</th> <th>EN ISO 10848-2</th> <th>EN ISO 10140-2</th> <th rowspan="3">CAC****</th> </tr> <tr> <th rowspan="2">α_w*</th> <th rowspan="2">Class</th> <th colspan="6">Frequency (Hz) α_e**</th> <th rowspan="2">NRC**</th> <th rowspan="2">D_{n,tw}***</th> <th rowspan="2">R_w***</th> </tr> <tr> <th>125</th> <th>250</th> <th>500</th> <th>1000</th> <th>2000</th> <th>4000</th> </tr> </thead> <tbody> <tr> <td>Unperforated</td> <td>0.10(L)</td> <td>NC</td> <td>0.25</td> <td>0.15</td> <td>0.05</td> <td>0.05</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>44 dB</td> <td>19 dB</td> <td>-</td> </tr> <tr> <td>Rg 2516 + Fleece</td> <td>0.75(L)</td> <td>C</td> <td>0.35</td> <td>0.80</td> <td>0.95</td> <td>0.70</td> <td>0.75</td> <td>0.75</td> <td>0.80</td> <td>0.80</td> <td>18 dB</td> <td>8 dB</td> <td>-</td> </tr> <tr> <td>Rd 1522 + Fleece</td> <td>0.70</td> <td>C</td> <td>0.30</td> <td>0.65</td> <td>0.90</td> <td>0.65</td> <td>0.70</td> <td>0.75</td> <td>0.70</td> <td>0.70</td> <td>16 dB</td> <td>6 dB</td> <td>16 dB</td> </tr> <tr> <td>Rg 0701 + Fleece</td> <td>0.55(L)</td> <td>D</td> <td>0.45</td> <td>0.70</td> <td>0.70</td> <td>0.55</td> <td>0.55</td> <td>0.45</td> <td>0.65</td> <td>0.65</td> <td>21 dB</td> <td>10 dB</td> <td>22 dB</td> </tr> </tbody> </table>										EN ISO 354									EN ISO 10848-2	EN ISO 10140-2	CAC****	α _w *	Class	Frequency (Hz) α _e **						NRC**	D _{n,tw} ***	R _w ***	125	250	500	1000	2000	4000	Unperforated	0.10(L)	NC	0.25	0.15	0.05	0.05	0.10	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	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	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	0.65	21 dB	10 dB	22 dB
	EN ISO 354									EN ISO 10848-2		EN ISO 10140-2	CAC****																																																																																			
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Rd 1522 + Fleece	0.70	C	0.30	0.65	0.90	0.65	0.70	0.75	0.70	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	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																																																																																					
Fire reaction		Euroclass A1 (METAL F-Clip Access, F-H 600, F-L 601: Unperforated / Perforated + No Infill + No Gasket) Euroclass A2-s2, d0 (METAL F-Clip Access, F-H 600, F-L 601: Perforated + Acoustic Fleece + No Gasket) Euroclass B-s1, d0 (METAL F-H 600 Swing, F-L 601: Perforated + Acoustic Fleece + Gasket) as per EN 13501-1				RUS KM1 (G1, V1, D1, T1) as per 123-FZ			Values applicable for RAL 9010 solutions only.																																																																																							
Light reflectance		Unperforated 85%	Rg 2516 70%	Rd 1522 65%	Rg 0701 80%	Values applicable for RAL 9010 solutions only.																																																																																										
Humidity resistance		90% RH																																																																																														
Indoor air quality				A+ (only without gasket) E1																																																																																												
Cleanability							(TrioGuard™ only)																																																																																									
Sustainability				=14% Silver*																																																																																												
Design options																																																																																																
		METAL F-H 600 Swing EI30	METAL F-H 600, METAL F-H 600 Swing	METAL F-Clip Access	METAL F-Clip Access, METAL F-H 600, METAL F-L 601	METAL F-Clip Access, METAL F-H 600 Swing, METAL F-L 601																																																																																										

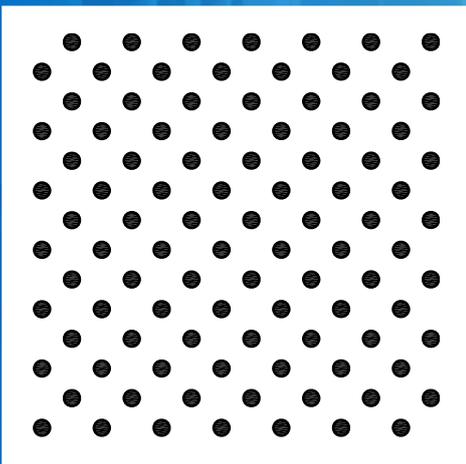
[Previous page] METAL F-Clip Access, Unperforated (Linz AG Center, Linz, Austria, ©Elisabeth Grebe)

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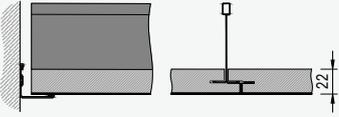
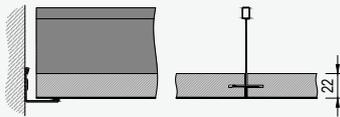
Free Span Corridor Systems

AMF Kombimetall



- **AMF Kombimetall** is a combination of a metal surface and mineral tile core.
- The combination fulfils the highest performance requirements in fire protection and acoustics.
- Used in association with AMF THERMATEX® mineral tiles, AMF Kombimetall provides the safety and ease of installation of a functional ceiling with the high quality finish of a metal ceiling.
- Ideally suited for corridors applications where the panels simply span between walls.
- Bandraster for room installation available on request.



Edge details		SL2		K2C2																																																						
																																																										
System		Perimeter Trim		Perimeter Trim																																																						
Dimensions (mm)		1600 x 300 x 22 1800 x 300 x 22 2000 x 300 x 22 2500 x 300 x 22		1600 x 300 x 22 1800 x 300 x 22 2000 x 300 x 22 2500 x 300 x 22																																																						
Material & perforations		Pre-coated aluminium, 0.7mm																																																								
		 Unperforated	 Perforated																																																							
			\varnothing : 2.5mm Open area: 15%																																																							
Colours		 RAL 9010																																																								
Weight		9.5 kg/m ²																																																								
Acoustics		<table border="1"> <thead> <tr> <th rowspan="3"></th> <th colspan="9">EN ISO 354</th> <th>EN ISO 10848-2</th> </tr> <tr> <th rowspan="2">α_w*</th> <th rowspan="2">Class</th> <th colspan="6">Frequency (Hz) α_p**</th> <th rowspan="2">NRC**</th> <th rowspan="2">$D_{n,f,w}$***</th> </tr> <tr> <th>125</th> <th>250</th> <th>500</th> <th>1000</th> <th>2000</th> <th>4000</th> </tr> </thead> <tbody> <tr> <td>Unperforated</td> <td>0.20(L)</td> <td>E</td> <td>0.35</td> <td>0.30</td> <td>0.30</td> <td>0.20</td> <td>0.10</td> <td>0.10</td> <td>0.25</td> <td>-</td> </tr> <tr> <td>Perforated</td> <td>0.65(H)</td> <td>C</td> <td>0.35</td> <td>0.45</td> <td>0.60</td> <td>0.75</td> <td>0.90</td> <td>0.80</td> <td>0.70</td> <td>42 dB</td> </tr> </tbody> </table>									EN ISO 354									EN ISO 10848-2	α_w *	Class	Frequency (Hz) α_p **						NRC**	$D_{n,f,w}$ ***	125	250	500	1000	2000	4000	Unperforated	0.20(L)	E	0.35	0.30	0.30	0.20	0.10	0.10	0.25	-	Perforated	0.65(H)	C	0.35	0.45	0.60	0.75	0.90	0.80	0.70	42 dB
	EN ISO 354										EN ISO 10848-2																																															
	α_w *	Class	Frequency (Hz) α_p **						NRC**		$D_{n,f,w}$ ***																																															
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Unperforated	0.20(L)	E	0.35	0.30	0.30	0.20	0.10	0.10	0.25	-																																																
Perforated	0.65(H)	C	0.35	0.45	0.60	0.75	0.90	0.80	0.70	42 dB																																																
		*as per EN ISO 11654		**as per ASTM C 423-01		***as per EN ISO 717-1																																																				
Fire reaction		Euroclass A2-s1, d0 as per EN 13501-1																																																								
Light reflectance		Unperforated 85%	Perforated \varnothing 2.5 mm 70%																																																							
Humidity resistance		90% RH																																																								
Cleanability																																																										

[Previous page] AMF Kombimetall (Realschule, Grafenau, Germany)

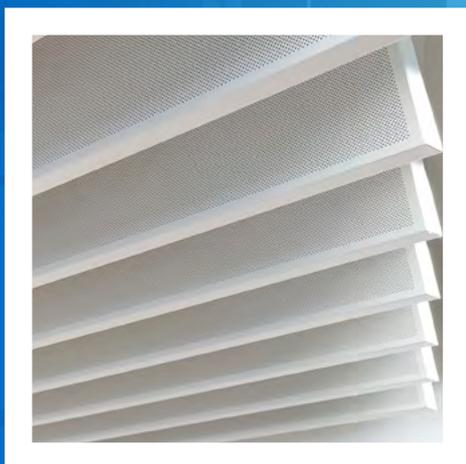
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Vertical Baffle Systems

ARMSTRONG METAL Baffle

Individual



- **Armstrong METAL Baffles** are typically used in acoustically-challenged spaces, in airports, rail terminals, semi-exposed soffit buildings, offices, retail, leisure centres, etc.
- Modern linear appearance.
- Reduce noise levels and reverberation time, increase speech intelligibility.
- Robust, engineered solution.
- Quick and easy to install with adjustable hanging wires.
- Delivered with an acoustic pad fitted inside.
- Optional face covers.
- Optional connector for grouping functions.
- See our fully configurable **METAL V-P 500** system for additional options.

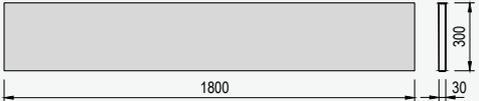


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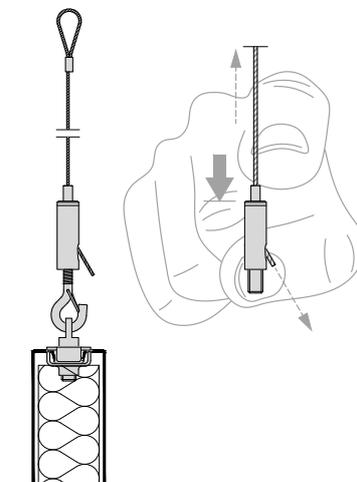
Armstrong
CEILING SOLUTIONS

ARMSTRONG METAL Baffle

Individual

Edge details		METAL Baffle																																		
System		METAL Baffle Hanging Wire Kit (length 4000mm) Face covers and connectors available as separate items.	Not included.																																	
Dimensions (mm)		1800 x 300 x 30	Available in 2 pieces/carton.																																	
Material & perforations		Powder-coated galvanised steel, 0.7mm																																		
		Micro-perforation Rd 1522 Ø: 1.5mm Open area: 22%	(both vertical sides) Acoustic pad 25mm, 25 kg/m ²																																	
Colours		 RAL 9010																																		
Weight		5.7 kg/pc																																		
Acoustics			<table border="1"> <thead> <tr> <th colspan="9">EN ISO 354</th> </tr> <tr> <th rowspan="2">α_w^*</th> <th rowspan="2">Class</th> <th colspan="6">Frequency (Hz) — Octave band value α_o</th> <th rowspan="2">NRC**</th> </tr> <tr> <th>125</th> <th>250</th> <th>500</th> <th>1000</th> <th>2000</th> <th>4000</th> </tr> </thead> <tbody> <tr> <td>0.55(H)</td> <td>D</td> <td>0.15</td> <td>0.35</td> <td>0.50</td> <td>0.70</td> <td>0.75</td> <td>0.70</td> <td>0.60</td> </tr> </tbody> </table> <p>*as per EN ISO 11654 **as per ASTM C 423-01</p>	EN ISO 354									α_w^*	Class	Frequency (Hz) — Octave band value α_o						NRC**	125	250	500	1000	2000	4000	0.55(H)	D	0.15	0.35	0.50	0.70	0.75	0.70	0.60
EN ISO 354																																				
α_w^*	Class	Frequency (Hz) — Octave band value α_o						NRC**																												
		125	250	500	1000	2000	4000																													
0.55(H)	D	0.15	0.35	0.50	0.70	0.75	0.70	0.60																												
Fire reaction		Euroclass A2-s1, d0 as per EN 13501-1																																		
Light reflectance		Rd 1522 65%																																		
Humidity resistance		90% RH																																		
Indoor air quality		 A  E1																																		
Cleanability			  																																	
Sustainability		EN ISO 14021 ≈14%																																		

Hanging Wire Kit



[Previous page] METAL Baffles (Tolmachevo Airport, International Terminal, Novosibirsk)

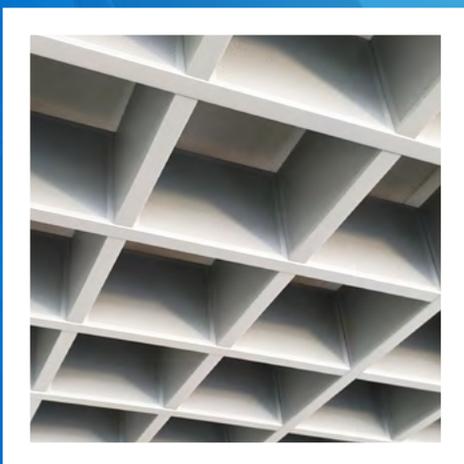
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Vertical Baffle Systems

ARMSTRONG METAL V-P 500, V-K 500

Grouped



- **Armstrong METAL V-P 500** (linear layout) and **Armstrong METAL V-K 500** (crossed layout) are acoustic ceiling systems well suited to busy and noisy open plan spaces.

METAL V-P 500

- Fully configurable solution with variable baffles spacing.
- Different baffle height combinations and radial installations possible.
- Suitable solution for corridors.
- Installed on U-Profile system for a perfect alignment and optional face covers.
- For alternative solutions, see our standard **METAL Baffles**.
- Further dimensions and options available on request.
- Easy service integration into the ceiling space.
- Additional design options available as part of our **Vario Design** range.

METAL V-K 500

- Delivered as a kit of predefined baffle types in different lengths for standard fields sizes.
- Simple to assemble, no cutting required.



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CEILING SOLUTIONS

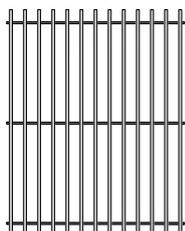
ARMSTRONG METAL V-P 500, V-K 500

Grouped

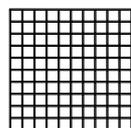
Edge details		METAL V-P 500 	METAL V-K 500
System		U-Profile	Direct suspended (by threaded rod)
Dimensions (mm)		Baffle length: various dimensions Baffle width: 30 Baffle height: 150 / 200 / 250 / 300	Standard modules/fields: 3000 x 3000 6000 x 6000 9000 x 6000
Material & perforations		Post-coated galvanised steel, 0.7mm	
		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%
		Other perforations	
		Rd 1511	Rg 1511
		Rg 1821	Rg 3013
		Qg 4025	
Colours		RAL 9010	
		Other colours	
		RAL 9003	RAL 9005
		RAL 9006	RAL 9007
		RAL 9016	Global White
		Wood effects*	
		Ash	Natural Bamboo
		Caramel Bamboo	Maple
		Oak	American Cherry
		American Walnut	
Weight		Unperforated 2.0 - 3.6 kg/m ²	Rg 2516 1.7 - 3.1 kg/m ²
			Rd 1522 1.6 - 2.9 kg/m ²
			Rg 0701 1.9 - 3.5 kg/m ²
Acoustics		Acoustic performances will depend on baffle heights, row distance between the baffles and distance from the soffit. Acoustic values available on request.	
Fire reaction		Euroclass A2-s1, d0 as per EN 13501-1	
Light reflectance		Unperforated 85%	Rg 2516 70%
		Rd 1522 65%	Rg 0701 80%
Humidity resistance		90% RH	
Indoor air quality		A	E1
Cleanability			
Sustainability		≈14% EN ISO 14001	
Design options			

*Baffles only.

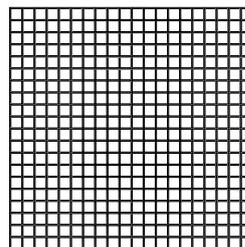
METAL V-P 500 Layout



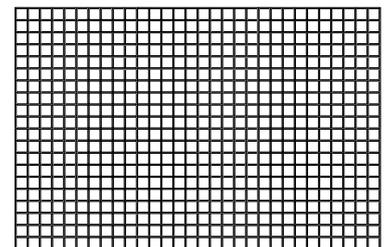
METAL V-K 500 Layouts



3000 x 3000



6000 x 6000



9000 x 6000

[Previous page] METAL V-P 500 (E&Y, Warsaw, Poland, ©Szymon Polański)

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Floating Canopy Systems

ARMSTRONG METAL Canopy Concave & Convex Individual

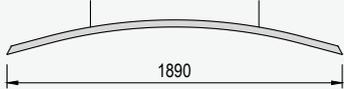
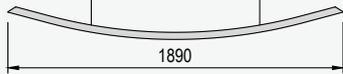


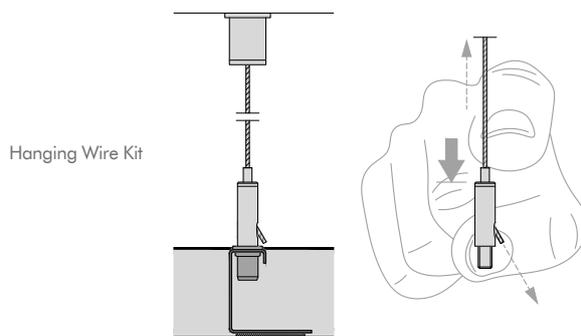
- **Armstrong METAL Canopy Concave & Convex** are a range of floating solutions. Easily suspended from the building structure, they define spaces and help accentuate an area.
- With a 360° visibility, they provide focus and create ceiling sculptures while controlling sound reverberation.
- Define spaces without any visible frame or grid.
- Adjust to various heights and angles.
- An easy to install retrofit solution that can be used under an existing ceiling.
- Visible sides are extramicro perforated to offer a smooth appearance, while standard perforation on the rear side allows for better sound absorption.
- Ideal for showrooms, entrance halls, transport hubs, meeting rooms, retail and waiting areas.



ARMSTRONG METAL Canopy Concave & Convex

Individual

Edge details		METAL Canopy Concave 	METAL Canopy Convex 																				
System		Hanging Wire Kit M6 (length 4000mm)	Not included.																				
Dimensions (mm)		Concave 1890 x 1181 x 40	Convex 1890 x 1181 x 40 Available in 1 piece/carton.																				
Material & Perforations		Powder-coated galvanised steel panels, 0.7mm																					
		Front side  Extramicro perforation Rg 0701 ∅: 0.7mm Open area: 1.5%	Rear side  Standard perforation Rg 2516 ∅: 2.5mm Open area: 16%																				
		Black acoustic fleece + acoustic pad 20mm, 25 kg/m ³																					
Colours		 RAL 9010																					
Weight		Concave 28.3 kg/pc	Convex 28.3 kg/pc																				
Acoustics			EN ISO 354 Frequency (Hz) α_p^* <table border="1"> <thead> <tr> <th>125</th> <th>250</th> <th>500</th> <th>1000</th> <th>2000</th> <th>4000</th> </tr> </thead> <tbody> <tr> <td>Concave</td> <td>0.80</td> <td>1.50</td> <td>2.50</td> <td>2.80</td> <td>2.60</td> <td>2.20</td> </tr> <tr> <td>Convex</td> <td>0.80</td> <td>1.50</td> <td>2.50</td> <td>2.80</td> <td>2.60</td> <td>2.20</td> </tr> </tbody> </table> *Values shown are the average of the 3 one third octave band value.	125	250	500	1000	2000	4000	Concave	0.80	1.50	2.50	2.80	2.60	2.20	Convex	0.80	1.50	2.50	2.80	2.60	2.20
125	250	500	1000	2000	4000																		
Concave	0.80	1.50	2.50	2.80	2.60	2.20																	
Convex	0.80	1.50	2.50	2.80	2.60	2.20																	
Fire reaction		Euroclass B-s2, d0 as per EN 13501-1																					
Light reflectance		80%																					
Humidity resistance		90% RH																					
Indoor air quality		 A+  E1																					
Cleanability																							
Sustainability		≈14%																					



[Previous page] METAL Canopy Concave (Nice Airport, France, © Grigori Rassinier)

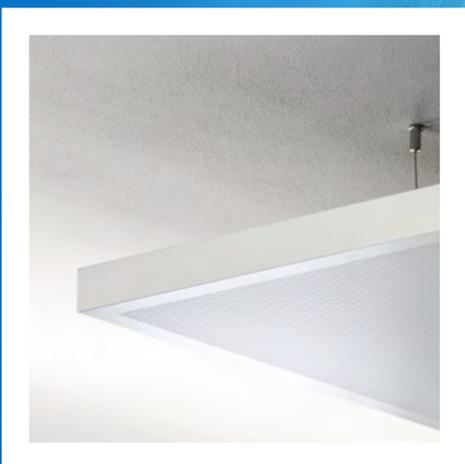
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Floating Canopy Systems

ARMSTRONG METAL Canopy

Individual



- **Armstrong METAL Canopy** is a fully configurable metal canopy. It is suspended by an adjustable hanging wire kit and is quick and easy to install.
- Metal provides a high-value appearance.
- Fully configurable solution, available with different edge details (90°/50°/20x20mm edge).
- An optional rear cover with perforation and an acoustic pad allows for better sound absorption and 360° visibility.
- An easy to install retrofit solution that can be used under an existing ceiling.
- Can be installed as a wall absorber by using a wall hanging kit (see **METAL Canopy Wall Absorber**).
- Resistant and durable.
- Ideal for showrooms, entrance halls, transport hubs, meeting rooms, retail and waiting areas.

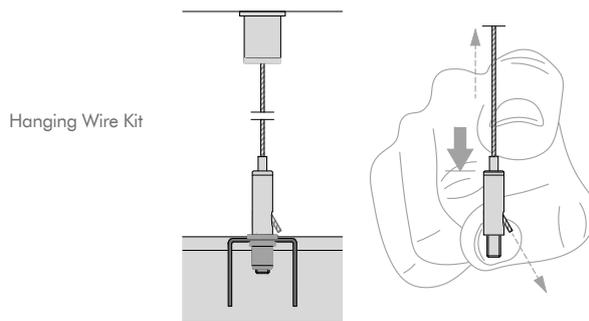


Floating Canopy Systems

ARMSTRONG METAL Canopy

Individual

Edge details	 METAL Canopy [90° edge]	 METAL Canopy [50° edge]	METAL Canopy [20 x 20mm edge]																										
System	 Hanging Wire Kit M6 (length 4000mm)		Not included.																										
Dimensions (mm)	 Panel length: 600 - 1800 Panel width: 600 - 1200 Panel thickness: 40																												
Material & perforations	 Post-coated galvanised steel, 0.7mm																												
	Front side		Rear side																										
	 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%																										
			 Standard perforation Rg 2516 Ø: 2.5mm Open area: 16%																										
Colours	 <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Other colours</p> <table border="0"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RAL 9003</td> <td>RAL 9005</td> <td>RAL 9006</td> <td>RAL 9007</td> <td>RAL 9016</td> <td>Global White</td> </tr> </table> </div> <div style="width: 45%;"> <p>Wood effects</p> <table border="0"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ash</td> <td>Natural Bamboo</td> <td>Caramel Bamboo</td> <td>Maple</td> <td>Oak</td> <td>American Cherry</td> <td>American Walnut</td> </tr> </table> </div> </div>									RAL 9003	RAL 9005	RAL 9006	RAL 9007	RAL 9016	Global White								Ash	Natural Bamboo	Caramel Bamboo	Maple	Oak	American Cherry	American Walnut
																													
RAL 9003	RAL 9005	RAL 9006	RAL 9007	RAL 9016	Global White																								
																													
Ash	Natural Bamboo	Caramel Bamboo	Maple	Oak	American Cherry	American Walnut																							
Weight	 Unperforated 4.3 - 26.0 kg/m ²	Rg 2516 4.0 - 23.0 kg/m ²	Rd 1522 3.9 - 21.9 kg/m ²																										
Fire reaction	 Euroclass A1 (Perforated + No Infill) Euroclass A2-s2, d0 (Perforated + Acoustic Fleece) as per EN 13501-1		RUS KM1 (G1, V1, D1, T1) as per 123-FZ <i>Values applicable for RAL 9010 solutions only.</i>																										
Light reflectance	 Unperforated 85%	Rg 2516 70%	Rd 1522 65%																										
Humidity resistance	 90% RH																												
Indoor air quality	 <table border="0"> <tr> <td></td> <td></td> </tr> <tr> <td>A+</td> <td>E1</td> </tr> </table>					A+	E1																						
																													
A+	E1																												
Cleanability	    																												
Sustainability	 EN ISO 14001 ≈14%		 Green Building Silver*																										
Design options	 Dimensions																												
	 Colours	 Perforations	 Acoustic Infills																										
		 Cut-Outs																											



[Previous page] METAL Canopy, 90° edge (Community Room, Penzlin, Germany, ©Bernd Gallandi)

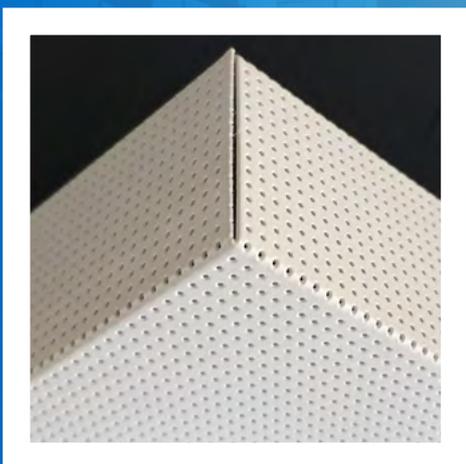
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Floating Canopy Systems

ARMSTRONG METAL D-Clip, D-H 700

Grouped



- **Armstrong METAL D-Clip** and **Armstrong METAL D-H 700** systems are floating modular solutions for optimum flexibility. The product range features Clip-In and Hook-On rectangular panels that can be arranged to create distinctive design elements. In combination with Knauf Ceiling Solutions suspension systems it allows a minimal-height installation without any extra engineering required.
- Modular concept for optimum flexibility with fully configurable large size panels. Installed in a row or as a single item.
- Standard, end and single panels available.
- Modern absorber solution for exposed concrete soffit.
- **METAL D-Clip** with optional swing-down function or lock function.
- **METAL D-H 700** is suitable for chilled ceilings.
- Additional design options available as part of our **Vario Design** range.
- Ideal for offices, meeting rooms, retail, auditoriums, multi-purpose halls and cafeterias.



Floating Canopy Systems

ARMSTRONG METAL D-Clip, D-H 700

Grouped

Edge details	METAL D-Clip 	METAL D-H 700 										
System	U-Profile + DP12 A-Bar	U-Profile (cross connected)										
Dimensions (mm)	Panel length: 600 - 2500 Panel width: 250 - 600 Max size (m ²): 1.5	Panel length: 600 - 2750 (in steps of 25mm) Panel width: 250 - 600 (in steps of 25mm) Max size (m ²): 1.65										
Material & perforations	Post-coated galvanised steel, 0.6 - 0.7mm											
	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%										
	Other perforations											
	Rd 1511	Rg 1511										
	Rg 1821	Rg 3013										
	Qg 4025											
Colours	RAL 9010											
	Other colours											
	RAL 9003	RAL 9005										
	RAL 9006	RAL 9007										
	RAL 9016	Global White										
	Wood effects											
	Ash	Natural Bamboo										
	Caramel Bamboo	Maple										
	Oak	American Cherry										
	American Walnut											
Weight	Unperforated 6.4 - 9.5 kg/m ²	Rg 2516 5.6 - 8.8 kg/m ²										
		Rd 1522 5.3 - 8.5 kg/m ²										
		Rg 0701 6.3 - 9.4 kg/m ²										
		Weight varies depending on the edge detail and acoustic infill.										
Acoustics	EN ISO 354										EN ISO 10848-2	EN ISO 10140-2
		α_w *	Class	Frequency (Hz) α_p						NRC**	$D_{n,tw}$ ***	R_w ***
				125	250	500	1000	2000	4000			
	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
	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
				* as per EN ISO 11654			** as per ASTM C 423-01			*** as per EN ISO 717-1		
Fire reaction	Euroclass A1 (Perforated + No Infill) Euroclass A2-s2, d0 (Perforated + Acoustic Fleece) as per EN 13501-1			RUS KM1 (G1, V1, D1, T1) as per 123-FZ						Values applicable for RAL 9010 solutions only.		
Light reflectance	Unperforated 85%	Rg 2516 70%	Rd 1522 65%	Rg 0701 80%	Values applicable for RAL 9010 solutions only.							
Humidity resistance	90% RH											
Indoor air quality	A+	E1										
Cleanability												
	(TrioGuard™ only)											
Sustainability	≈14%	Silver*										
	*Value applicable for RAL 9010 solutions only.											
Design options												
	Dimensions	Colours	Perforations	Acoustic Infills	Cut-Outs	Swing-Down Function	Secure Function	TrioGuard™				

[Previous page] METAL D-H 700, Rd 1522, RAL 9010 (Siemens, Rome, Italy, ©Beppe Raso)

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Wall Systems

ARMSTRONG METAL Canopy Wall Absorber Individual



- **Armstrong METAL Canopy Wall Absorber** is a range of wall solutions that help structure and define spaces and accentuate an area. They provide a focus or create wall sculptures that help control sound reverberation within a space.
- Simple and fast installation by using a wall hanging kit.
- Durable, easy to clean and maintain.
- Fully configurable solution, available with different edge details (90°/50°/20x20mm edge).
- Optional perforated rear covers with an acoustic pad allow for better sound absorption and 360° visibility.
- The same product can be installed as a ceiling canopy (see METAL Canopy).
- The product can be installed upright or reclined.
- Additional design options available as part of our **Vario Design** range.
- Ideal for offices, meeting rooms, retail auditoriums, multi-purpose halls and cafeterias.



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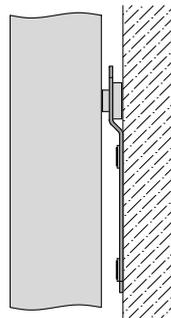
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CEILING SOLUTIONS

ARMSTRONG METAL Canopy Wall Absorber

Individual

Edge details	METAL Canopy Wall Absorber [90° edge] 	METAL Canopy Wall Absorber [50° edge] 	METAL Canopy Wall Absorber [20 x 20mm edge] 															
System	Wall Hanging Kit (4 fixing points at the wall) Not included																	
Dimensions (mm)	Panel length: 600 - 1800 Panel width: 600 - 1200 Panel thickness: 40																	
Material & perforations	Post-coated galvanised steel, 0.7mm <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th colspan="2" style="text-align: left;">Front side</th> <th colspan="2" style="text-align: left;">Rear side</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">  Standard perforation Rg 2516 </td> <td style="text-align: center;">  Micro-perforation Rd 1522 </td> <td style="text-align: center;">  Extramicro perforation Rg 0701 </td> <td style="text-align: center;">  Standard perforation Rg 2516 </td> </tr> <tr> <td> Ø: 2.5mm Open area: 16% </td> <td> Ø: 1.5mm Open area: 22% </td> <td> Ø: 0.7mm Open area: 1.5% </td> <td> Ø: 2.5mm Open area: 16% </td> </tr> </tbody> </table>			Front side		Rear side		 Standard perforation Rg 2516	 Micro-perforation Rd 1522	 Extramicro perforation Rg 0701	 Standard perforation Rg 2516	Ø: 2.5mm Open area: 16%	Ø: 1.5mm Open area: 22%	Ø: 0.7mm Open area: 1.5%	Ø: 2.5mm Open area: 16%			
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Colours	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;">  RAL 9010 Other colours <table style="width: 100%; text-align: center;"> <tr> <td> RAL 9003</td> <td> RAL 9005</td> <td> RAL 9006</td> <td> RAL 9007</td> <td> RAL 9016</td> <td> Global White</td> </tr> </table> </td> <td style="width: 50%; vertical-align: top;"> Wood effects <table style="width: 100%; text-align: center;"> <tr> <td> Ash</td> <td> Natural Bamboo</td> <td> Caramel Bamboo</td> <td> Maple</td> <td> Oak</td> <td> American Cherry</td> <td> American Walnut</td> </tr> </table> </td> </tr> </table>			 RAL 9010 Other colours <table style="width: 100%; text-align: center;"> <tr> <td> RAL 9003</td> <td> RAL 9005</td> <td> RAL 9006</td> <td> RAL 9007</td> <td> RAL 9016</td> <td> Global White</td> </tr> </table>	 RAL 9003	 RAL 9005	 RAL 9006	 RAL 9007	 RAL 9016	 Global White	Wood effects <table style="width: 100%; text-align: center;"> <tr> <td> Ash</td> <td> Natural Bamboo</td> <td> Caramel Bamboo</td> <td> Maple</td> <td> Oak</td> <td> American Cherry</td> <td> American Walnut</td> </tr> </table>	 Ash	 Natural Bamboo	 Caramel Bamboo	 Maple	 Oak	 American Cherry	 American Walnut
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 RAL 9003	 RAL 9005	 RAL 9006	 RAL 9007	 RAL 9016	 Global White													
 Ash	 Natural Bamboo	 Caramel Bamboo	 Maple	 Oak	 American Cherry	 American Walnut												
Weight	Rg 2516 4.0 - 23.0 kg/m ²	Rd 1522 3.9 - 21.9 kg/m ²	Rg 0701 4.3 - 25.7 kg/m ²															
Light reflectance	Rg 2516 70%	Rd 1522 65%	Rg 0701 80% Values applicable for RAL 9010 solutions only.															
Humidity resistance	90% RH																	
Indoor air quality	<table style="width: 100%; text-align: center;"> <tr> <td> A+</td> <td> E1</td> <td colspan="2"></td> </tr> </table>			 A+	 E1													
 A+	 E1																	
Cleanability	<table style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>																	
																		
Sustainability	<table style="width: 100%; text-align: center;"> <tr> <td> EN ISO 14001 ≈ 14%</td> <td> Cradle to cradle Silver*</td> <td colspan="2"></td> </tr> </table> *Value applicable for RAL 9010 solutions only.			 EN ISO 14001 ≈ 14%	 Cradle to cradle Silver*													
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Design options	<table style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Dimensions</td> <td>Colours</td> <td>Perforations</td> <td>Acoustic Infills</td> <td>Cut-Outs</td> </tr> </table>								Dimensions	Colours	Perforations	Acoustic Infills	Cut-Outs					
																		
Dimensions	Colours	Perforations	Acoustic Infills	Cut-Outs														

Wall Hanging Kit



[Previous page] METAL Canopy Wall Absorber, 20 x 20mm edge, Rd 1522 / 90° edge, Rg 2516 / 50° edge, Rg 0701, RAL 9007 (©Knauf Ceiling Solutions)

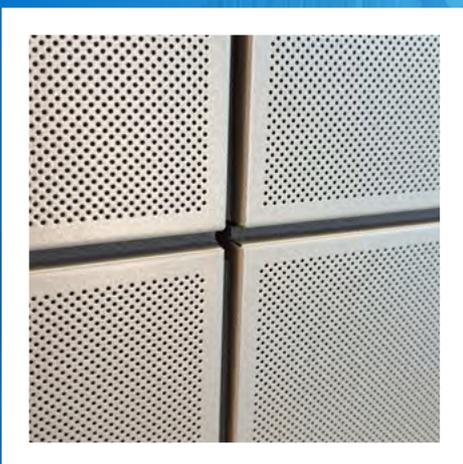
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Wall Systems

ARMSTRONG METAL W-H 1000, W-H 1100

Grouped



- Armstrong METAL W-H 1000 and Armstrong METAL W-H 1100 are Hook-On wall cladding systems without visible fasteners which enable faster installation.
- Space saving system with a small adjustable offset distance.
- Panels can be oriented upright or reclined.
- METAL W-H 1000 with C-Wall profile is installed horizontally, while METAL W-H 1100 with U-Wall profile is installed vertically. The size and orientation of the panels will guide the choice of a system over the other.
- Fast to install and dismantle.
- A complete wall solution that meets the acoustic performance of a space.
- Additional design options available as part of our **Vario Design** range.
- Acoustic and architectural design elements for market segments such as office, education or transportation.

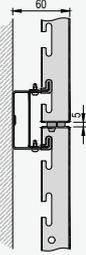
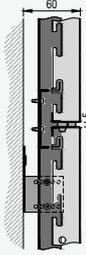


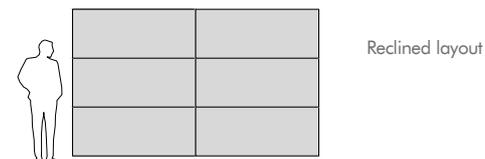
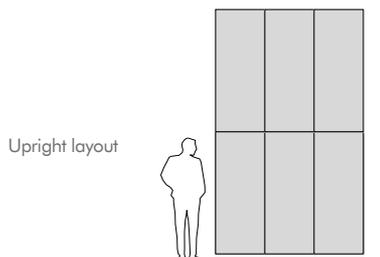
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ARMSTRONG METAL W-H 1000, W-H 1100

Grouped

<p>Edge details</p> 	<p>METAL W-H 1000 </p> 	<p>METAL W-H 1100 </p> 																				
<p>System</p> 	<p>C-Wall Profile</p>	<p>U-Wall Profile</p>																				
<p>Dimensions (mm)</p> 	<p>Panel length: 600 - 3000 Panel width: 250 - 1000 Max size (m²): 3</p>	<p>Panel length: 600 - 3000 Panel width: 250 - 1000 Max size (m²): 3</p>																				
<p>Material & perforations</p> 	<p>Post-coated galvanised steel, 1.0mm</p> <table border="0"> <tr> <td data-bbox="280 745 512 824">  <p>Unperforated</p> </td> <td data-bbox="528 745 759 824">  <p>Standard perforation Rg 2516</p> <p>∅: 2.5mm Open area: 16%</p> </td> <td data-bbox="775 745 1007 824">  <p>Micro-perforation Rd 1522</p> <p>∅: 1.5mm Open area: 22%</p> </td> </tr> <tr> <td colspan="3" data-bbox="280 880 1007 902"> <p>Other perforations</p> </td> </tr> <tr> <td data-bbox="280 913 512 969">  <p>Rd 1511</p> </td> <td data-bbox="528 913 759 969">  <p>Rg 1511</p> </td> <td data-bbox="775 913 1007 969">  <p>Rg 3013</p> </td> </tr> </table>		 <p>Unperforated</p>	 <p>Standard perforation Rg 2516</p> <p>∅: 2.5mm Open area: 16%</p>	 <p>Micro-perforation Rd 1522</p> <p>∅: 1.5mm Open area: 22%</p>	<p>Other perforations</p>			 <p>Rd 1511</p>	 <p>Rg 1511</p>	 <p>Rg 3013</p>											
 <p>Unperforated</p>	 <p>Standard perforation Rg 2516</p> <p>∅: 2.5mm Open area: 16%</p>	 <p>Micro-perforation Rd 1522</p> <p>∅: 1.5mm Open area: 22%</p>																				
<p>Other perforations</p>																						
 <p>Rd 1511</p>	 <p>Rg 1511</p>	 <p>Rg 3013</p>																				
<p>Colours</p> 	<table border="0"> <tr> <td data-bbox="280 990 440 1046">  <p>RAL 9010</p> </td> <td colspan="2" data-bbox="280 1057 847 1079"> <p>Other colours</p> </td> <td colspan="4" data-bbox="863 1057 1533 1079"> <p>Wood effects</p> </td> </tr> <tr> <td data-bbox="280 1090 344 1146">  <p>RAL 9003</p> </td> <td data-bbox="360 1090 424 1146">  <p>RAL 9005</p> </td> <td data-bbox="440 1090 504 1146">  <p>RAL 9006</p> </td> <td data-bbox="520 1090 584 1146">  <p>RAL 9007</p> </td> <td data-bbox="600 1090 663 1146">  <p>RAL 9016</p> </td> <td data-bbox="679 1090 743 1146">  <p>Global White</p> </td> <td data-bbox="863 1090 927 1146">  <p>Ash</p> </td> <td data-bbox="943 1090 1007 1146">  <p>Natural Bamboo</p> </td> <td data-bbox="1023 1090 1086 1146">  <p>Caramel Bamboo</p> </td> <td data-bbox="1102 1090 1166 1146">  <p>Maple</p> </td> <td data-bbox="1182 1090 1246 1146">  <p>Oak</p> </td> <td data-bbox="1262 1090 1326 1146">  <p>American Cherry</p> </td> <td data-bbox="1342 1090 1406 1146">  <p>American Walnut</p> </td> </tr> </table>		 <p>RAL 9010</p>	<p>Other colours</p>		<p>Wood effects</p>				 <p>RAL 9003</p>	 <p>RAL 9005</p>	 <p>RAL 9006</p>	 <p>RAL 9007</p>	 <p>RAL 9016</p>	 <p>Global White</p>	 <p>Ash</p>	 <p>Natural Bamboo</p>	 <p>Caramel Bamboo</p>	 <p>Maple</p>	 <p>Oak</p>	 <p>American Cherry</p>	 <p>American Walnut</p>
 <p>RAL 9010</p>	<p>Other colours</p>		<p>Wood effects</p>																			
 <p>RAL 9003</p>	 <p>RAL 9005</p>	 <p>RAL 9006</p>	 <p>RAL 9007</p>	 <p>RAL 9016</p>	 <p>Global White</p>	 <p>Ash</p>	 <p>Natural Bamboo</p>	 <p>Caramel Bamboo</p>	 <p>Maple</p>	 <p>Oak</p>	 <p>American Cherry</p>	 <p>American Walnut</p>										
<p>Weight</p> 	<p>Unperforated 8.6 - 11.3 kg/m²</p>	<p>Rg 2516 7.3 - 10.0 kg/m²</p>	<p>Rd 1522 6.7 - 9.6 kg/m²</p> <p><i>Weight varies depending on the edge detail and acoustic infill.</i></p>																			
<p>Light reflectance</p> 	<p>Unperforated 85%</p>	<p>Rg 2516 70%</p>	<p>Rd 1522 65%</p> <p><i>Values applicable for RAL 9010 solutions only.</i></p>																			
<p>Humidity resistance</p> 	<p>90% RH</p>																					
<p>Cleanability</p>																						
<p>Sustainability</p>	 <p>≈14% Silver*</p>		<p><i>*Value applicable for RAL 9010 solutions only.</i></p>																			
<p>Design options</p>	 <p>Dimensions Colours Perforations</p>																					



[Previous page] METAL W-H 1100 (Dubai International Airport, Dubai, UAE, ©Beppe Raso)

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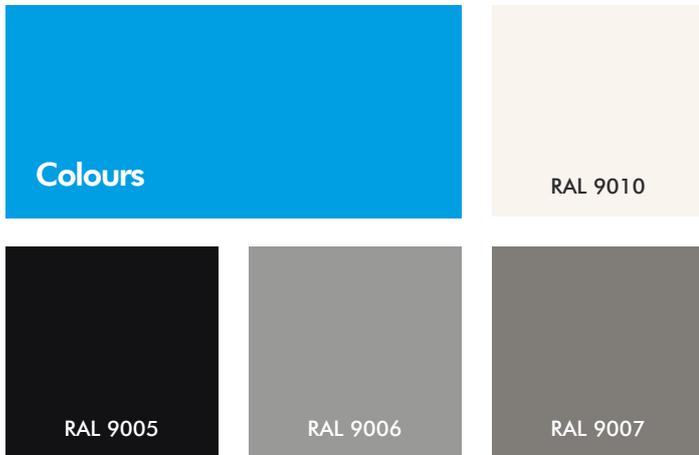
MESH SOLUTIONS

Knauf Ceiling Solutions offers a wide range of mesh ceiling systems to create bold modern aesthetics.

From predefined panels to variable modules, corridor solutions and canopies, all systems can be configured as part of our Vario Design range, providing a wide choice of shapes, dimensions, patterns and colours to meet your specific design needs.

COLOURS

Knauf Ceiling Solutions standard colour for mesh ceilings RAL 9010 (Pure White) and 3 additional Vario Design colours.



Further colours available on request.

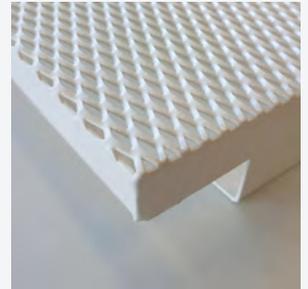
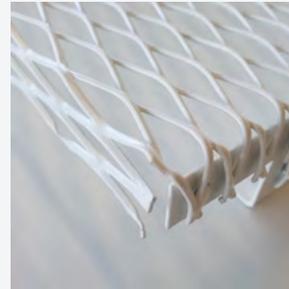
MESH vs. MESH MT

MESH

Visible side with 90° upturn on all four edges and welded stiffening profiles inside.

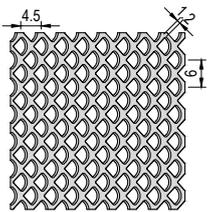
MESH MT

(MicroTack Technology) Flat visible side, without upturn, with welded stiffening profiles on all edges.



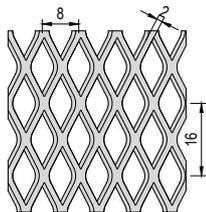
PATTERNS

Standard - Steel Mesh Types



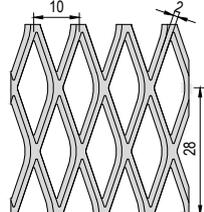
KD100

Open area: 35%



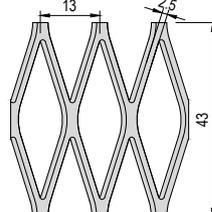
RB25

Open area: 50%



RB35

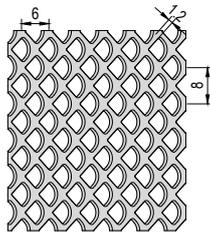
Open area: 58%



RB55

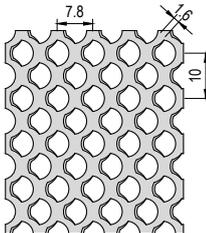
Open area: 62%

Vario Design - Steel Mesh Types



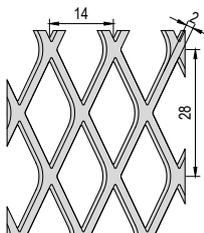
KD200

Open area: 54%



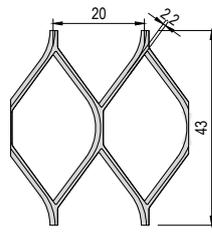
TAU30

Open area: 55%



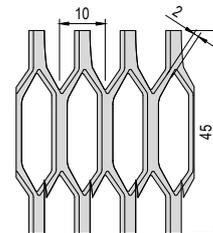
RB35XL

Open area: 71%



RB55XL

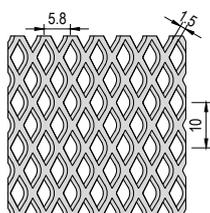
Open area: 79%



E45

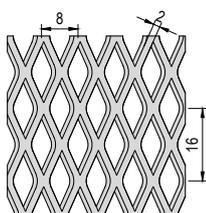
Open area: 68%

Vario Design - Aluminium Mesh Types



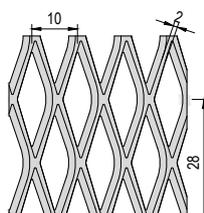
RB15AL

Open area: 45%



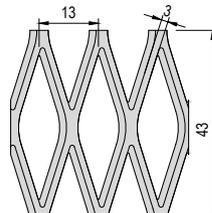
RB25AL

Open area: 47%



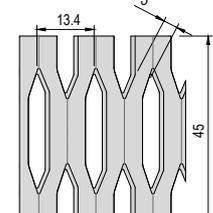
RB35AL

Open area: 55%



RB55AL

Open area: 55%



E45AL

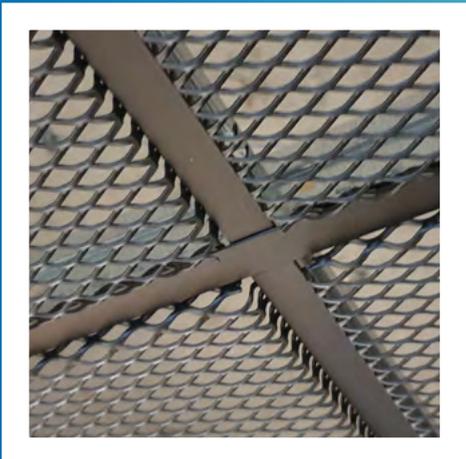
Open area: 33%



Exposed Grid Systems

ARMSTRONG MESH Lay-In

Board, Tegular, MicroLook



- Use **Armstrong MESH Lay-In** to achieve an industrial and contemporary look.
- Installed with standard exposed suspension systems.
- High open area solution.
- Additional design options available as part of our **Vario Design** range.
- Ideal choice for transport hubs, renovation projects wanting a modern touch and in general spaces with large ceiling areas.



ARMSTRONG MESH Lay-In

Board, Tegular, MicroLook

Edge details		MESH Board <small>vd</small>	MESH Tegular 8 <small>vd</small>	MESH Tegular 14 <small>vd</small>	MESH MicroLook 8 <small>vd</small>
					
System		Exposed demountable - System C (24mm T-Grid, butt-cut)	Exposed demountable - System C (24mm T-Grid, butt-cut)	Exposed demountable - System C (24mm T-Grid, butt-cut)	Exposed demountable - System C (15mm T-Grid, butt-cut)
Modules (mm)		600 x 600 625 x 625 1200 x 600 1250 x 625	600 x 600	625 x 625	600 x 600
Material & patterns		Galvanised steel KD100 / RB25 = 1.0mm RB35 / RB55 = 1.5mm (only for MESH Board)			
		 KD100 Q6 x 4.5 - 1.2 x 1 Open area: 35%	 RB25 R16 x 8 - 2 x 1 Open area: 50%	 RB35 R28 x 10 - 2 x 1.5 Open area: 58%	 RB55 R43 x 13 - 2.5 x 1.5 Open area: 62%
Colours		 RAL 9010 vd Other colours  RAL 9005  RAL 9006  RAL 9007			
Weight		KD100 4.1 - 4.4 kg/m ²	RB25 4.0 - 4.3 kg/m ²	RB35 4.8 kg/m ²	RB55 4.3 kg/m ²
Fire reaction		Euroclass A2-s1, d0 as per EN 13501-1		RUS KM1 (G1, V1, D1, T1) as per 123-FZ <i>Values applicable for RAL 9010 solutions only.</i>	
Humidity resistance		95% RH			
Indoor air quality		 A+			
Cleanability					
Sustainability		 ≈14%  Silver*		<i>*Value applicable for RAL 9010 solutions only.</i>	
Design options					

[Previous page] MESH MicroLook 8, RB25, RAL 9010 (77 Newman Street, London, UK, © Dave Parker)

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Exposed Grid Systems

ARMSTRONG MESH Linear & Tartan

B-H 300, B-H 300 MT, K-H 400, K-H 400 MT, R-L 201, R-L 201 MT, B-L 302, B-L 302 MT



- **Armstrong MESH Linear & Tartan** combines functionality with stylish simplicity and is ideal for breaking up larger ceiling spaces. Its high open area is perfect for any industrial look inspiration.
- MESH – visible side with 90° upturn on all four edges and welded stiffening profiles inside.
- MESH MT (MicroTack Technology) – flat visible side, without upturn, with welded stiffening profiles on all edges.

MESH B-H 300

- 'Easy' swing-down function for easy access to the ceiling void.
- C-Profiles available in different dimensions with optional cut-outs for service integration on request.

MESH K-H 400

- Fully configurable large size panels.
- Radial ceilings with trapezoidal panels on request.
- Additional design options available as part of our **Vario Design** range.
- Ideal for open spaces and large rooms with flexible partitioning.

- 'Easy' swing-down function for easy access to the ceiling void.
- Crossing boxes and C-Profiles available in different dimensions with optional cut-outs for service integration on request.

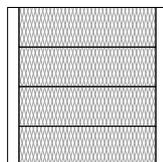


ARMSTRONG MESH Linear & Tartan

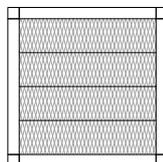
B-H 300, B-H 300 MT, K-H 400, K-H 400 MT, R-L 201, R-L 201 MT, B-L 302, B-L 302 MT

Edge details		MESH B-H 300 <small>vo</small> [Linear layout]	MESH B-H 300 MT <small>vo</small> [Linear layout]	MESH K-H 400 <small>vo</small> [Tartan layout]	MESH K-H 400 MT <small>vo</small> [Tartan layout]	
System		U-Profile + C-Profile 100mm*	U-Profile + C-Profile 100mm*	Crossing Box + C-Profile 100mm*	Crossing Box + C-Profile 100mm*	*Further widths on request.
Edge details		MESH R-L 201 <small>vo</small> [Linear layout]	MESH R-L 201 MT <small>vo</small> [Linear layout]	MESH B-L 302 <small>vo</small> [Linear layout]	MESH B-L 302 MT <small>vo</small> [Linear layout]	
System		U-Profile + L-Profile	U-Profile + L-Profile	U-Profile + Bandraaster 100mm	U-Profile + Bandraaster 100mm	
Dimensions (mm)		KD100 Panel length: 597 - 1500 Panel width: 247 - 500 Max size (m ²): 1.75	RB25 RB35 RB55	RB25 Panel length: 597 - 2500 Panel width: 247 - 700 Max size (m ²): 1.75		
Material & patterns		Galvanised steel KD100 / RB25 = 1.0mm (KD100 not available for MT version) RB35 / RB55 = 1.5mm				
		 KD100 Q6 x 4.5 - 1.2 x 1 Open area: 35%	 RB25 R16 x 8 - 2 x 1 Open area: 50%	 RB35 R28 x 10 - 2 x 1.5 Open area: 58%	 RB55 R43 x 13 - 2.5 x 1.5 Open area: 62%	
Colours		 RAL 9010 vo Other colours  RAL 9005  RAL 9006  RAL 9007				
Weight		KD100 8.2 - 14.5 kg/m ²	RB25 6.9 - 14.3 kg/m ²	RB35 7.8 - 15.5 kg/m ²	RB55 7.3 - 14.8 kg/m ²	
Fire reaction		Euroclass A2-s1, d0 as per EN 13501-1			RUS KM1 (G1, V1, D1, T1) as per 123-FZ	Values applicable for RAL 9010 solutions only.
Humidity resistance		95% RH				
Indoor air quality		 A+				
Cleanability						
Sustainability		 ≈14%  Silver*				
Design options		 Dimensions  Colours  Patterns  Cut-Outs  Shapes		MESH B-H 300 MESH B-H 300 MT MESH K-H 400 MESH K-H 400 MT	MESH MT versions  Megapanel	

Linear layout



Tartan layout



[Previous page] MESH K-H 400 MT, custom 70% open area, RAL 9005 (65 Gresham Street, London, UK, ©Tom Green)

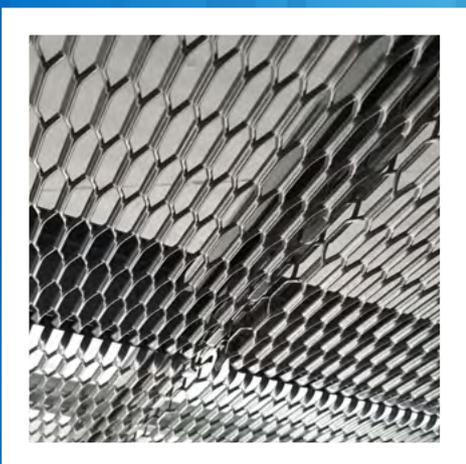
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Concealed Grid Systems

ARMSTRONG MESH Clip-In, Hook-On

R-Clip, R-H 200, R-H 200 MT, R-H 215, R-H 215 MT

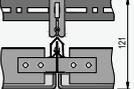
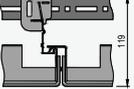
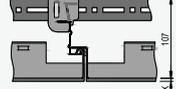
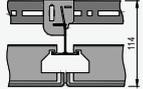
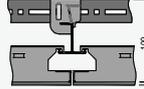


- **Armstrong MESH Clip-In & Hook-On** combines functionality with stylish simplicity and is ideal for breaking up larger ceiling spaces. Its high open area is perfect for any industrial look inspiration.
- MESH – visible side with 90° upturn on all four edges and welded stiffening profiles inside.
- MESH MT (MicroTack Technology) – flat visible side, without upturn, with welded stiffening profiles on all edges.
- MESH R-Clip / MESH R-H 200 / MESH R-H 200 MT available with lock function.
- MESH R-H 200 / MESH R-H 200 MT available in trapezoidal shapes for radial ceilings.
- Fully configurable large size panels.
- Additional design options available as part of our **Vario Design** range.
- Ideal for open spaces and large rooms with flexible partitioning.



ARMSTRONG MESH Clip-In, Hook-On

R-Clip, R-H 200, R-H 200 MT, R-H 215, R-H 215 MT

Edge details		MESH R-Clip  					
System		U-Profile + DP12 A-Bar					
Dimensions (mm)		RB25 Panel length: 597 - 2500 RB35 Panel width: 247 - 700 RB55 Max size (m ²): 1.75					
Edge details		MESH R-H 200  	MESH R-H 200 MT  	MESH R-H 215  	MESH R-H 215 MT  	X = Mesh thickness	
System		U-Profile + J-Bar	U-Profile + J-Bar	U-Profile + H-Profile 35mm	U-Profile + H-Profile 35mm		
Dimensions (mm)		KD100 Panel length: 597 - 1500 Panel width: 247 - 500 Max size (m ²): 1.75		RB25 Panel length: 597 - 2500 RB35 Panel width: 247 - 700 RB55 Max size (m ²): 1.75			
Material & patterns		Galvanised steel KD100 / RB25 = 1.0mm (KD100 not available for MT version and R-Clip) RB35 / RB55 = 1.5mm					
		 KD100 Q6 x 4.5 - 1.2 x 1 Open area: 35%	 RB25 R16 x 8 - 2 x 1 Open area: 50%	 RB35 R28 x 10 - 2 x 1.5 Open area: 58%	 RB55 R43 x 13 - 2.5 x 1.5 Open area: 62%		
Colours		 RAL 9010 Other colours  RAL 9005  RAL 9006  RAL 9007					
Weight		KD100 8.1 - 15.3 kg/m ²	RB25 6.0 - 15.0 kg/m ²	RB35 6.8 - 16.3 kg/m ²	RB55 6.3 - 15.6 kg/m ²		
Fire reaction		Euroclass A2-s1, d0 as per EN 13501-1			RUS KM1 (G1, V1, D1, T1) as per 123-FZ		Values applicable for RAL 9010 solutions only.
Humidity resistance		95% RH					
Indoor air quality		 A+					
Cleanability							
Sustainability		 ≈14% Silver*					*Value applicable for RAL 9010 solutions only.
Design options				MESH R-H 200 MESH R-H 200 MT	MESH R-Clip MESH R-H 200 MESH R-H 200 MT	 Shapes  Secure Function	

[Previous page] MESH R-H 215, RB35, RAL 9006 (Automobilklub, Warsaw, Poland, ©Szymon Polański)

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Free Span Corridor Systems

ARMSTRONG MESH Clip-In, Hook-On, Lay-In

F-Clip Access, F-H 600, F-H 600 MT, F-L 601, F-L 601 MT

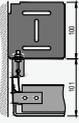
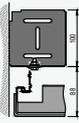
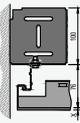


- **Armstrong MESH Free Span Corridor Systems** provide a versatile design solution for busy corridor applications.
- Flexible with easy and quick access to the ceiling void.
- MESH – visible side with 90° upturn on all four edges and welded stiffening profiles inside.
- MESH MT (MicroTack Technology) – flat visible side, without upturn, with welded stiffening profiles on all edges.
- MESH F-L 601 / MESH F-L 601 MT with various perimeter trim solutions for a clean aesthetic finish.
- Adjustable perimeter shadow gap detailing for MESH F-Clip / MESH F-H 600 / MESH F-H 600 MT.
- Fully configurable large size panels.
- Additional design options available as part of our **Vario Design** range.
- Ideal for open spaces and large rooms with flexible partitioning.



ARMSTRONG MESH Clip-In, Hook-On, Lay-In

F-Clip, F-H 600, F-H 600 MT, F-L 601, F-L 601 MT

Edge details		MESH F-Clip 			
System		Wall Bracket + Half DP12 A-Bar (optionally DP12 A-Bar)			
Dimensions (mm)		RB25 Panel length: 597 - 2500 RB35 Panel width: 247 - 700 RB55 Max size (m ²): 1.75			
Edge details		MESH F-H 600 	MESH F-H 600 MT 	MESH F-L 601 	MESH F-L 601 MT 
					
System		U-Profile + J-Bar	U-Profile + J-Bar	Perimeter Trim	Perimeter Trim
Dimensions (mm)		KD100 Panel length: 597 - 1500 Panel width: 247 - 500 Max size (m ²): 1.75		RB25 Panel length: 597 - 2500 RB35 Panel width: 247 - 700 RB55 Max size (m ²): 1.75	
Material & patterns		Galvanised steel KD100 / RB25 = 1.0mm (KD100 not available for MT version and F-Clip) RB35 / RB55 = 1.5mm			
		 KD100 Q6 x 4.5 - 1.2 x 1 Open area: 35%	 RB25 R16 x 8 - 2 x 1 Open area: 50%	 RB35 R28 x 10 - 2 x 1.5 Open area: 58%	 RB55 R43 x 13 - 2.5 x 1.5 Open area: 62%
Colours		 RAL 9010  Other colours  RAL 9005  RAL 9006  RAL 9007			
Weight		KD100 8.2 - 15.0 kg/m ²	RB25 6.9 - 14.8 kg/m ²	RB35 7.8 - 16.0 kg/m ²	RB55 7.3 - 15.3 kg/m ²
Fire reaction		Euroclass A2-s1, d0 as per EN 13501-1		RUS KM1 (G1, V1, D1, T1) as per 123-FZ	
Humidity resistance		95% RH			
Indoor air quality		 A+			
Cleanability					
Sustainability		 ≈14%  Silver*			
Design options		 Dimensions  Colours  Patterns  Cut-Outs  Shapes		MESH F-H 600 MESH F-H 600 MT MESH F-L 601 MESH F-L 601 MT MESH F-Clip  Secure Function	

X = Mesh thickness

[Previous page] MESH F-L 601, RB35, RAL 9005 (Hines Polska, Warsaw, Poland, © Szymon Polański)

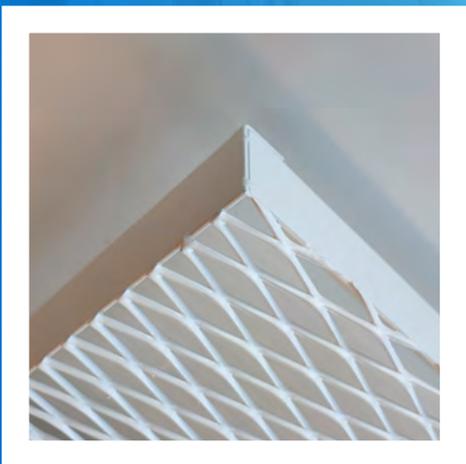
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Floating Canopy Systems

ARMSTRONG MESH Canopy MT

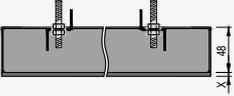
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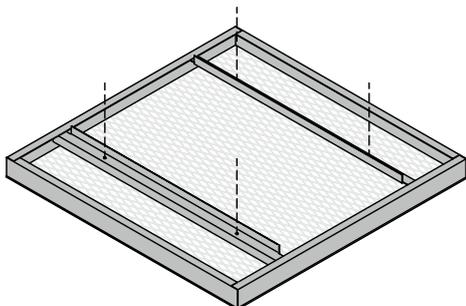


- **Armstrong MESH Canopy MT** provides a contemporary industrial look and feel. Breathe new life into your ceiling architecture – with a creative design, impressive simplicity and high performance.
- MESH MT (MicroTack Technology) – flat visible side, without upturn, with welded stiffening profiles on all edges.
- Canopies delivered with stiffeners on the back and suspended by threaded rods or adjustable hanging wire kits.
- Standard single item solution.
- For the grouping option, the canopy can be delivered on request with additional bolt holes on the edges.
- Additional design options available as part of our **Vario Design** range.
- Ideal for open spaces and large rooms with flexible partitioning.

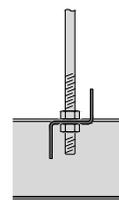


Floating Canopy Systems
ARMSTRONG MESH Canopy MT
 Individual

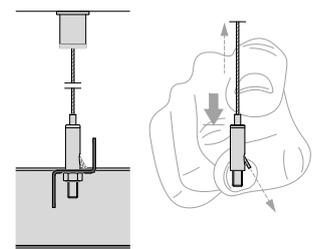
Edge details 	MESH Canopy MT <small>vd</small>  <p>X = Mesh thickness</p>		
System 	Direct suspended (by threaded rod or wires)		<i>Not included.</i>
Dimensions (mm) 	Panel length: 800 - 1200 Panel width: (RB25) 800 - 1202 (in steps of 8mm) / (RB35, RB55) 800 - 1200		
Material & patterns 	Galvanised steel RB25 = 1.0mm RB35 / RB55 = 1.5mm <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>RB25</p> <p>R16 x 8 - 2 x 1 Open area: 50%</p> </div> <div style="text-align: center;">  <p>RB35</p> <p>R28 x 10 - 2 x 1.5 Open area: 58%</p> </div> <div style="text-align: center;">  <p>RB55</p> <p>R43 x 13 - 2.5 x 1.5 Open area: 62%</p> </div> </div>		
Colours 	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; background-color: #e0e0e0; margin-right: 5px;"></div> <p>RAL 9010</p> </div> <div style="background-color: #e0f0ff; padding: 5px; margin-top: 5px;"> <p><small>vd</small> Other colours</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <div style="width: 30px; height: 30px; background-color: black; margin-bottom: 5px;"></div> <p>RAL 9005</p> </div> <div style="text-align: center;"> <div style="width: 30px; height: 30px; background-color: #808080; margin-bottom: 5px;"></div> <p>RAL 9006</p> </div> <div style="text-align: center;"> <div style="width: 30px; height: 30px; background-color: #696969; margin-bottom: 5px;"></div> <p>RAL 9007</p> </div> </div> </div>		
Weight 	RB25 6.4 - 11.5 kg/m ²	RB35 6.9 - 12.6 kg/m ²	RB55 6.6 - 12.0 kg/m ²
Fire reaction 	Euroclass A2-s1, d0 as per EN 13501-1		RUS KM1 (G1, V1, D1, T1) as per 123-FZ <i>Values applicable for RAL 9010 solutions only.</i>
Humidity resistance 	95% RH		
Indoor air quality 	 <p>A+</p>		
Cleanability			
Sustainability	 <p>≈14% Silver*</p>		<i>*Value applicable for RAL 9010 solutions only.</i>
Design options			



Threaded Rod M6



Hanging Wire Kit



[Previous page] MESH Canopy MT (©Knauf Ceiling Solutions)

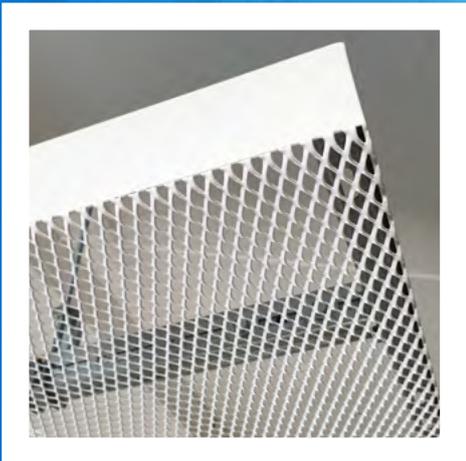
vd Options with this icon are available from our **Vario Design** range. Some combinations of colours and/or perforations are not available for every product. Products may vary from country to country. Please contact your local sales representative. For further information and legal notice, please visit our website. knaufceilingsolutions.com



Floating Canopy Systems

ARMSTRONG MESH D-H 700 MT

Grouped

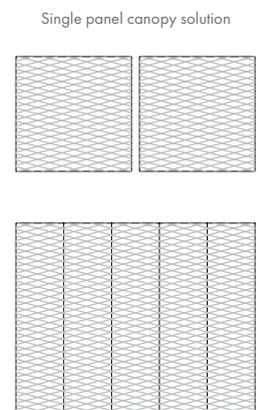
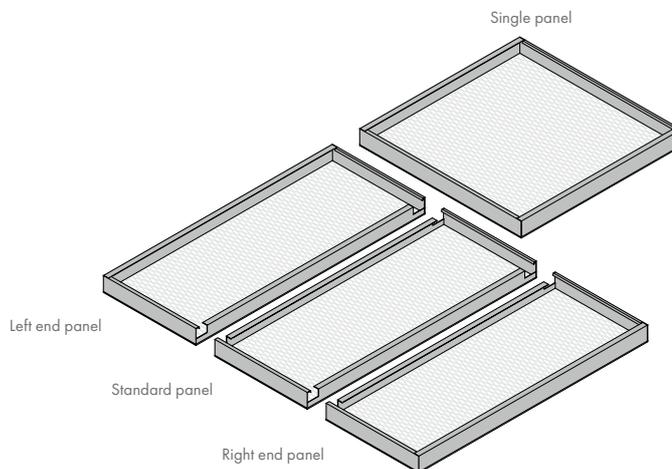


- **Armstrong MESH D-H 700 MT** offers optimum flexibility and design freedom. Breathe new life into your ceiling architecture – with a creative design, impressive simplicity and high performance.
- **MESH MT (MicroTack Technology)** – flat visible side, without upturn, with welded stiffening profiles on all edges.
- Standard, end and single panels available.
- Fully configurable large size panels.
- Additional design options available as part of our **Vario Design** range.
- Ideal for open spaces and large rooms with flexible partitioning.



Floating Canopy Systems
ARMSTRONG MESH D-H 700 MT
 Grouped

Edge details		MESH D-H 700 MT 		X = Mesh thickness
System		U-Profile (cross-connected)		
Dimensions (mm)		Panel length: 585 - 2485 (in steps of 25mm) Panel width: (RB25) 298 - 602 (in steps of 8mm) / (RB35, RB55) 247 - 700		
Material & patterns		Galvanised steel RB25 = 1.0mm RB35 / RB55 = 1.5mm		
		 RB25	 RB35	 RB55
		R16 x 8 - 2 x 1 Open area: 50%	R28 x 10 - 2 x 1.5 Open area: 58%	R43 x 13 - 2.5 x 1.5 Open area: 62%
Colours		 RAL 9010  Other colours  RAL 9005  RAL 9006  RAL 9007		
Weight		RB25 6.8 - 14.0 kg/m ²	RB35 7.6 - 16.0 kg/m ²	RB55 7.2 - 15.5 kg/m ²
Fire reaction		Euroclass A2-s1, d0 as per EN 13501-1		RUS KM1 (G1, V1, D1, T1) as per 123-FZ <i>Values applicable for RAL 9010 solutions only.</i>
Humidity resistance		95% RH		
Indoor air quality		 A+		
Cleanability				
Sustainability	 ≈14%  Silver*			<i>*Value applicable for RAL 9010 solutions only.</i>
Design options				



[Previous page] MESH D-H 700 MT (©Knauf Ceiling Solutions)

 Options with this icon are available from our **Vario Design** range. Some combinations of colours and/or perforations are not available for every product. Products may vary from country to country. Please contact your local sales representative. For further information and legal notice, please visit our website.
knaufceilingsolutions.com

DEFINITION OF TECHNICAL PERFORMANCE ICONS



SOUND ABSORPTION

A single-number rating for random incidence sound absorption coefficients as calculated by reference to EN ISO 11654 (α_w) or to ASTM C 423-01 (NRC).



HUMIDITY RESISTANCE

Maximum relative humidity conditions for installation and lifetime of ceiling.



SOUND ABSORPTION CLASS

A classification for sound absorption (A – E) based upon the sound absorption α_w value.



LIGHT REFLECTANCE

Light reflection is the proportion of incident light that is reflected back off the product, when tested in accordance with EN ISO 7724-2 and 3.



SOUND REDUCTION

A single-number rating for airborne sound transmission (single pass) as calculated by reference to EN ISO 717-1.



INDOOR AIR QUALITY

Knauf Ceiling Solutions are designed to limit the number of airborne particles in a clean room environment are tested against ISO 14644-1 and classified with an ISO class.



SOUND ATTENUATION

A single-number rating for flanking sound transmission between adjacent rooms, as calculated by reference to EN ISO 717-1.



FIRE REACTION

Reaction to fire classification in accordance with EN 13501-1 expressed as Euroclass (A1 – F).



RECYCLED CONTENT

The recycled content of the product, as calculated in accordance with ISO 14021:2016.



VOC

The VOC emission performance in accordance with the French labelling requirements.



CRADLE TO CRADLE CERTIFIED®

Products with this icon are C2C Certified®, providing a transparent mechanism to compare the sustainability performance of products, showing that they are designed for recycling and can help protect and sustain our environment for future generations by keeping resources in the economy for longer.



FORMALDEHYDE (E1)

Formaldehyde emission level (E1 = lowest test result possible).



ENVIRONMENTAL PRODUCT DECLARATION (EPD)

are independently verified and registered documents that communicate transparent and comparable information about the life-cycle environmental impact of products. Knauf Ceiling Solutions EPDs have been third party certified by IBU (Institut Bauen und Umwelt e.V. (IBU) as conforming to the requirements of ISO 14025.



ISO 9001 & ISO 14001

This icon demonstrates Knauf Ceiling Solutions ability to consistently provide products and services that meet customer and regulatory quality management system requirements (ISO 9001) and environmental management system requirements (ISO 14001).



EDGE DETAILS

Indicates the different edge details available for the product of reference.



DIMENSIONS

Indicates the sizes available for the product of reference.



SYSTEMS

Indicates the suspension systems compatible with the product of reference.



COLOURS

Custom colours available for products with this icon.



WEIGHT

Weight per unit area of the product (kg/m²).



SCRATCH RESISTANCE

Products with this icon offer a superior level of surface scratch resistance.



PRODUCT HANDLING & DURABILITY

Solutions with enhanced durability for improved handling and resistance damage.



CLEAN ROOM

Products with this icon are suitable for clean room applications.



BIOGUARD

BioGuard antimicrobial finish available as a custom option for products with this icon.



TRIOGUARD™

TrioGuard dirt-resistant coating available for products with this icon.



EXTERIOR SOLUTIONS

Exterior ceiling tiles available for products with this icon.

CLEANING AND DISINFECTION

The frequency and cleaning method of a ceiling varies from one application to another. All products can at least be cleaned with a dry cloth or vacuum cleaner.



For standard cleaning of dust, loose dirt or deposit, a soft brush, a clean, dry, soft white cloth, a normal vacuum cleaner with a soft brush or focus compressed air can be used.



For more intensive cleaning, the surfaces can be damp cleaned. This should be carried out with a wrung-out soft cloth or sponge. After cleaning, the surfaces of the tile should be dried with a soft cloth.



Wet cleaning should be carried out the lukewarm water (up to 40°C), using a sponge and mild cleaning agent (with a pH value between 7 and 9), and using medium pressure. After cleaning, the surface should be dried with a soft cloth.



Can be cleaned using focus compressed air. The apparatus used should be a cleaner that generates steam under pressure (8 bar and 175°C).



ACOUSTIC INFILLS

Custom acoustic infills available for products with this icon.



CUT-OUTS

Custom factory cut-outs for service integration available for products with this icon.



SUITABLE FOR CHILLED CEILINGS

Products compatible with chilled ceilings unit integration indicated with this icon.



PERFORATIONS / PATTERNS

Custom perforations/patterns available for products with this icon.



SHAPES

Custom shapes available for products with this icon.



MEGAPANEL

Megapanel available for products with this icon.



SWING-DOWN FUNCTION

Swing-down functionality available for systems with this icon.



SECURE FUNCTION

Secure solutions using specifically designed components and assemblies available for systems with this icon.



SEISMIC

Seismic resistance using specifically designed components and assemblies available for systems with this icon.



IMPACT RESISTANCE

Impact solutions ceiling tiles available for products with this icon.

CE MARKING

In the EU, the Construction Products Regulations (305/2011/EU) defines essential requirements for products (and projects) such that they are safe and fit for their intended use. Harmonized Product Standards respond to these essential requirements and set out what tests must be conducted and how the performance must be communicated. For suspended ceilings the applicable product standard is EN 13964 Suspended Ceilings – Requirements & Test Methods.

The essential requirements identified for suspended ceiling membranes (tiles & baffles) include:

- Reaction to Fire (mandatory)
- Formaldehyde Emissions
- Sound Absorption
- Flexural Tensile Strength / Durability

It is mandatory to CE Mark products within the scope of EN 13964 and provide a Declaration of Performance in order to place the product on the market.

All Knauf Ceiling Solutions Declarations of Performance can be found on Knauf Ceiling Solutions website.

ACOUSTIC TECHNICAL GLOSSARY

WEIGHTED SOUND ABSORPTION COEFFICIENT, α_w

A single-number rating for random incidence sound absorption coefficients calculated by reference to EN ISO 11654. With this method measured values obtained in accordance with EN ISO 354, are converted into octave bands at 250, 500, 1000, 2000 and 4000 Hz and are plotted onto a graph. A standard reference curve is then shifted towards the measured values in steps of 0.05 until a “best fit” is obtained. The derived value of α_w will vary between 0.00 and 1.00 but is only expressed in multiples of 0.05, e.g. $\alpha_w = 0.65$.

SHAPE INDICATOR

With reference to EN ISO 11654, the calculated value of α_w may be qualified by one or more letters (in brackets) to indicate if the product has excess sound absorption at low (L), medium (M) or high (H) frequencies.

SOUND ABSORPTION CLASS

With reference to EN ISO 11654, the calculated value of w may additionally be allocated into one of six descriptive classes in accordance with the following table:

Sound Absorption Class	α_w
A	0.90; 0.95; 1.00
B	0.80; 0.85
C	0.60; 0.65; 0.70; 0.75
D	0.30; 0.35; 0.40; 0.45; 0.50; 0.55
E	0.15; 0.20; 0.25
Not Classified	0.00; 0.05; 0.10

WEIGHTED SUSPENDED CEILING NORMALISED FLANKING LEVEL DIFFERENCE, D_{ntw}

A single-number rating of the laboratory measurement of room-to-room (horizontal) airborne flanking sound transmission of a suspended ceiling above adjacent room sharing a common ceiling plenum. It is determined in accordance with EN ISO 717-1 from measurements made in accordance with EN ISO 10848-2.

WEIGHTED SOUND REDUCTION INDEX, R_w

A single-number rating of the laboratory measurement of (vertical) airborne sound reduction of a suspended ceiling. It is determined by reference to EN ISO 717-1 from measurements of sound reduction index made in accordance with EN ISO 140-3.

NOISE REDUCTION COEFFICIENT, NRC

A single-number descriptor of random incidence sound absorption coefficients. Defined in ASTM C423-01 as the arithmetical average, to the nearest multiple of 0.05, of the measured sound absorption coefficients for the four one-third octave band centre frequencies of 250, 500, 1,000 and 2,000 Hz.

SOUND REDUCTION

A term used in relation to the vertical transmission of sound through a suspended ceiling.

SOUND ATTENUATION

A term used in relation to the horizontal transmission of sound through a suspended ceiling above adjacent rooms sharing a common ceiling plenum.

EQUIVALENT ABSORPTION AREA (EAA)

The equivalent absorption is a measure of the total sound absorption by discrete objects (canopies, screens, furniture etc) when installed in an architectural space. Because these types of absorbers have more than one surface and may be irregular in form, it is not meaningful to assign sound absorption coefficients to them. Hence the Equivalent Absorption Area per unit (measured in Sabines) is preferred to characterise the absorption provided by an individual ‘space absorber’.



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Due to reproduction processes colours shown in this catalogue may differ from the actual product colour. Product selection should always be made from Knauf Ceiling Solutions samples. All details and technical information stated in this brochure or other publicity material referring to Knauf Ceiling Solutions ceiling systems are based on test reports obtained under laboratory conditions. It is the responsibility of the customer to ensure that this data is suitable for the proposed application. All information provided is based on current technical data. Further relevant test reports, assessments and installation guidelines are available. All system details conform with current standards and are based on the use of Knauf Ceiling Solutions products and system components. Knauf Ceiling Solutions accepts no liability or responsibility for use of third party components, or for any variations to conditions stipulated in test data. Mixing of production batches is not recommended. All technical data is subject to change without prior notice and is governed by Knauf Ceiling Solutions Terms and Conditions of Sales. This catalogue supersedes all previous editions. Errors and omissions excepted. Printing errors excepted.